

COURSE CATALOG

YOUR SUSTAINABILITY ADVENTURE STARTS HERE

SHORT-TERM, HIGH IMPACT

Gain exclusive industry access, learn from local faculty and experts, experience bucket-list adventures and cultural immersion, develop innovative solutions, and more in just 8-10 days.

CAREER FOCUSED & ACCREDITED

Advance your career with professional practice and join a global network of sustainability leaders. Our alumni are getting hired by high-impact companies.

FOR A SUSTAINABLE FUTURE

Our mission advances the UN Sustainable Development Goal (SDGs). Address realworld problems and gain hands-on experience in the most pressing issues facing our world today.



Welcome to The GREEN Program (TGP), where the travel experience is just the beginning and participants join a global network of the next generation's sustainability leaders.

We're thrilled that 99% of our alumni say that TGP has refined their purpose and advanced their careers, and that you've decided to take the next step with us.

Thank you for joining our mission to educate and empower future sustainability leaders through innovative models of experiential education, travel, and adventure.

WHERE TGP ALUMNI ARE MAKING AN IMPACT





















...& MORE



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FROM OUR FOUNDER & CEO

DEAR GREENIES,

On behalf of our entire team, I am pleased to welcome you to The GREEN Program (TGP)! We are thrilled that you have decided to join us on this journey towards a more sustainable future. We believe that together, we can create positive change in the world and empower future sustainability leaders through experiential education, responsible travel, and adventure.

Our program is designed to provide you with a unique and enriching educational experience that goes beyond traditional classroom learning. Through our experiential education approach, you will have the opportunity to explore new cultures, environments, and perspectives, and develop practical skills that will enable you to make a positive impact on the world.

We aim to support your academic, personal, and professional growth throughout your journey with us. In this program, you will be challenged to think critically, explore your passions, and develop the skills you need to be successful in your sustainability career and journey. We also want to provide you with a sense of community and a supportive environment where you can feel comfortable being your true self.

We are committed to creating an inclusive and welcoming environment for all participants and providing you with the support you need to thrive in our program. To create a future that is truly sustainable, equitable, and inclusive, we need everyone involved, and so we invite you to bring the fullness of who you are to your TGP experience.

Finally, I encourage you to make the most of your experience with us. Expand your comfort zone, ask questions, challenge yourself on that hike, try the local food, connect with new people, and immerse yourself in the journey. We can't wait to see how the skills and experiences you gain from our program will enable you to create a positive impact in the world and emerge as a leader in the sustainability field.

Thank you again for choosing to join our program. We are excited to welcome you to our global community and look forward to our adventures ahead.

Sincerely,

Melissa Lee Founder, CEO

The GREEN Program



OUR MODEL

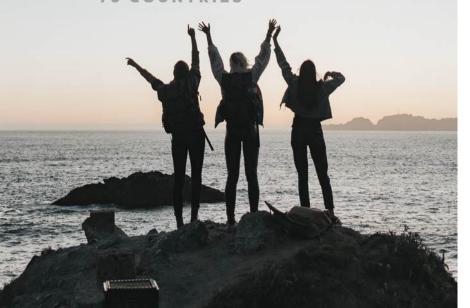
Created for students, by students, TGP has introduced a new model for education abroad– driven by a desire to provide purposeful, hands–on industry exposure at a fraction of the time and cost. Our programs attract students and young leaders who are curious about the world, seek opportunities to break out of their comfort zones, and stand out amongst their peers as global citizens.

Using a human-centric approach, TGP fuses academic credit, adventure, culture, and service learning to create an intensive 8-10 day experience during winter, spring, and summer break.

Our mission is dedicated to advancing the United Nation's 17 Sustainable Development Goals (SDGs) through experiential education and innovation.

JOIN 3,800+ GLOBAL SUSTAINABILITY LEADERS

- √ 470 UNIVERSITIES
- √ 180 MAJORS
- √ 70 COUNTRIES



SHORT-TERM, HIGH IMPACT

Our short-term accredited education model encompasses exclusive industry access, bucket-list adventures, cultural immersion, entrepreneurial development, and service learning all within 10 days. You'll want to get your bucket list ready for our programs, we promise! We're proud to say that 95% of TGP alumni stay involved with sustainability efforts post-program.

CAREER FOCUSED & ACCREDITED

Gain unprecedented access to the sustainability industry and differentiate your resume in the job market. TGP alumni are currently employed at organizations such as National Geographic, General Electric, Boeing, NASA, The National Renewable Energy Laboratory, The Environmental Protection Agency, the United Nations, and more. 99% of GREEN alumni say that TGP has refined their purpose: professionally, personally, and academically.

FOR A SUSTAINABLE FUTURE

The 17 Sustainable Development Goals (SDGs) were set forth by the United Nations to end poverty, fight inequality and injustice, and tackle environmental degradation by 2030. As advocates for sustainable tourism, our program model offers unique opportunities to gain first-hand experience with the most pressing issues facing our world today.

GO GLOBAL, ACT LOCAL

Our programs integrate the interconnection of global and local knowledge and challenges. With sustainable tourism practices at our core, TGP hires from and invests in the local economies where our programs operate - from our faculty to the locally prepared meals, excursions, and accommodations. We are proud to host interdisciplinary cohorts that represent more than 470 universities and 70 countries around the world and bring diverse experiences and knowledge to the program.



"THE MOST INSPIRING AND REFRESHING TRIP OF **MY ACADEMIC CAREER!"**



"UNPARALLELED EXPERIENCE -**TGP IS ANYTHING BUT A TOURISTY, SIGHT-SEEING TOUR."**



"THE MOST INTELLECTUALLY STIMULATING EXPERIENCE OF MY LIFE."





FEATURED IN















AWARDS & RECOGNITION

"Innovation in Alumni Engagement"
- GoAbroad Awards

"#1 Study Abroad Provider for Safety"GoOverseas Community Choice Awards

"Innovation in Sustainability"
- GoAbroad Awards

"Sustainability International Impact Award"
- PIE Awards

"Educator of The Year"
- Rad Awards

"Company of the Year"
- The Stevie Awards Women in Business

"Expander of Frontiers"
- Best of Philly® Philadelphia Magazine

"Green Innovator of the Year"
- Clean Air Council, GreenFest Philly

"30Under30: Education" - Forbes

"Best Education Abroad Provider"
- Global Youth Travel Awards

"#1 Summer Study Abroad Program"- StudyAbroad101

Top 50 Social Impact Ventures- New York Stock Exchange, Kairos Society

Top 10 Young Companies Driving Social Change

- United Nations Social Innovation Summit

"Top 3 Student-Founded Companies"
- New York Stock Exchange, Kairos Society

*NWBOC Woman & Minority
Owned Business

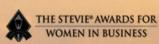






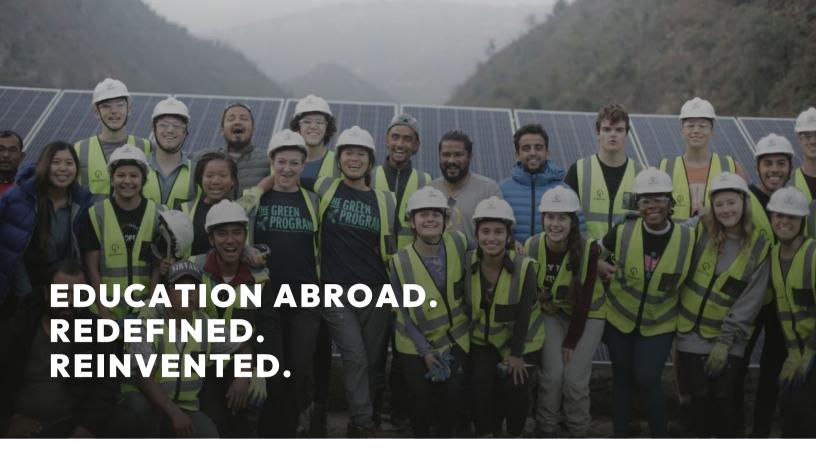












ABOUT US

Founded in 2009, The GREEN Program (TGP) is an award-winning, experiential education program focused on our world's most pressing issues in sustainable development. Our mission is to educate and empower future sustainability leaders through innovative models of experiential education, travel, and adventure.

As students, we were faced with the lack of real-world experiences and training in our education. So The GREEN Program was created to be a meaningful educational experience that provides hands-on, global experiences at the fraction of the time and cost of traditional study abroad.

We provide short-term, accredited programs in our world's epicenters of sustainability. By using the world as our classroom, our model expertly balances university accredited course work, exclusive industry access, and bucket-list adventures. We specialize in providing access to leading industry facilities, from Iceland's largest geothermal facility to installing a solar microgrid system and providing energy access in Nepal.

Since 2009, we've traveled with more than 3,800 interdisciplinary student leaders and young professionals from 400+ universities and 70 countries around the world. Our cohorts are challenged to solve real-world sustainability challenges in the form of innovative business solutions. To date, our team has facilitated the development of more than 800 Capstone Projects.

ON A MISSION TO EMPOWER OUR FUTURE SUSTAINABILITY LEADERS

Beyond our program experience, we are one of the only program providers to offer leadership and career development opportunities after participants return home. In fact, 95% of TGP alumni stay engaged in sustainability efforts postprogram. TGP alumni have gone on to work for forward-thinking companies such as NASA, General Electric, the United Nations, and more.

*TGP is proud to be a minority and woman-owned public benefit corporation, and NWBOC Certified.

Learn more at www.thegreenprogram.com/about

minority & woman-owned

Founded in 2009, TGP is proud to be a minority and woman-owned public benefit company.

EDUCATION OUR APPROACH

"Thanks to The GREEN Program, I have had the trip of a lifetime and learned more through hands-on activities and visits than I ever could in a classroom."

> - Angela Cotugno Civil Engineering, Villanova University



"The GREEN Program blends expert pedagogy and a keen understanding of how to connect with students to create an extraordinary learning experience. Students return transformed as sustainability scholars with a deeper understanding of their own potential. Partnering with TGP and their thoughtfully curated on-site partners made for a rewarding and truly memorable travel experience."

Karen Marosi Director of Student Engagement Pennsylvania State University

The GREEN Program is an immersive sustainability education and training program that provides students and professionals with the knowledge, skills, and experience necessary to become effective sustainability leaders. Our short-term programs are designed around the UN Sustainable Development Goals (SDGs) and focus on immersing participants in real-world sustainability case studies throughout various regions around the world.

During the program, participants engage in a variety of experiential learning opportunities, including coursework, site visits to renewable energy and sustainability facilities, an innovative capstone project, and hands-on field work in areas such as reforestation or solar microgrid installations. Our curriculum emphasizes the development of critical thinking skills, cross-disciplinary collaboration, and the application of sustainable development concepts in real-world settings. Additionally, through this experience, participants will have the chance to explore and engage with their natural environment in a manner that fosters intellectual growth and an appreciation for the importance of environmental stewardship.

Through this program, participants gain a deep understanding of sustainability issues and acquire the skills needed to address them effectively. Specifically, participants gain the following academic skills:

- 1. **Problem-Solving:** Participants learn to identify and analyze complex sustainability challenges, conduct research to inform solutions, and develop and test innovative approaches to problem-solving.
- 2. **Interdisciplinary Knowledge:** Participants engage with a diverse group of peers from a range of academic and professional backgrounds, gaining exposure to multiple perspectives on sustainability issues and learning to integrate knowledge from different fields.
- 3. **Sustainability Literacy:** Participants develop a broad and deep understanding of global sustainability concepts, including the social, economic, and environmental dimensions of sustainability, and gain insight into the complex interrelationships between these dimensions.
- 4. **Leadership:** Participants learn to lead and collaborate effectively in cross-disciplinary and multicultural settings, gaining the skills needed to become effective sustainability leaders.

PROFESSIONAL DEVELOPMENT

OUR APPROACH



"There's nothing else like The GREEN Program in the world right now. From a recruiting standpoint, going on TGP during a school break shows so much intentionality. The GREEN Program is such good interview material because it's such an incredible experience, and the recruiters want to hear about them. I've been to Peru and Japan multiple times before, and with TGP, there were still so many new, purposefully curated experiences that added new levels to my understanding. TGP alumni are making an impact in every industry and I can't wait to connect with them in the alumni network. You can't ask for a better learning experience than being there."

Kevin Yuan Global Sustainability Lead Nike

In addition to academic skills, participants also develop a range of professional development skills that are highly valued by employers in the sustainability field. These include:

- 1. **Communication:** Participants develop strong oral and written communication skills, learning to articulate complex sustainability concepts clearly and effectively to a range of audiences.
- 2. **Teamwork:** Participants learn to work effectively in teams, collaborating with peers from diverse backgrounds to develop innovative solutions to sustainability challenges.
- 3. **Adaptability:** Participants gain the ability to adapt to changing circumstances and contexts, developing the resilience needed to navigate complex sustainability issues in real-world settings.
- 4. **Career Readiness:** Participants gain access to a range of career development resources, including sustainability career coaches, professional development workshops, networking events, and job and internship opportunities, positioning them for success in the sustainability field.

The GREEN Program provides participants with a unique and valuable professional development, and sustainability education experience, equipping them with the knowledge, skills, and experience needed to become effective sustainability leaders and make a meaningful impact in the world.

PROGRAM EXPECTATIONS

OUR APPROACH

Important Program Expectations for Travelers

We appreciate your interest in our programs and want to ensure that you have an enjoyable experience. As you prepare for your upcoming adventure, we would like to share some important expectations to help you make the most of your journey. We kindly request that you carefully consider these program expectations to ensure you are fully informed and prepared for the adventure ahead. If you have any doubts or require further clarification, our program staff is readily available to assist you.

- Physical Elements: TGP's programs incorporate various physical and outdoor activities, including hiking in diverse weather conditions such as snow and wind. Candidates should be comfortable engaging in outdoor activities. While we prioritize your safety and provide the necessary guidance, it is essential to be prepared for physical exertion during certain portions of the program. The hiking level across our programs is "moderate," and will always be guided by local professional guides. If you feel uncomfortable participating in any adventure excursion, you have the option to opt out. Please discuss your concerns with our program staff in advance. We welcome individuals of all outdoor experience levels to join the hikes and outdoor excursions as a remarkable opportunity to challenge yourself, connect with the outdoors, and foster personal growth.
- Adventure Excursions: On most programs, you will have exciting opportunities to participate in various
 adventure excursions. We understand that these activities may not be suitable for everyone, and we
 respect your comfort levels. If you feel uncomfortable participating in any adventure excursion, you
 have the option to opt out. Please discuss your concerns with our program staff in advance. We
 encourage participants to push themselves and embrace the adventure excursions as valuable growth
 opportunities that allow them to step out of their comfort zones. These experiences provide a chance
 to expand your horizons, discover your inner strengths, and create lifelong memories.
- Full-Day Programming: Our program features intensive and immersive full days of activities. Each day may include a blend of classroom sessions, outdoor adventures, cultural immersion experiences, and capstone project development. Because of this, there is little downtime. You will have the chance to learn through interactive methods, explore the local environment, delve into customs and traditions, and contribute to a meaningful project. Embrace the excitement and come prepared for enriching and rewarding full days of programming. Participants are expected to complete the activities scheduled for each day to the best of their ability. Active participation and engagement will ensure that you make the most of your experience and fully benefit from the program's offerings.
- Workload Expectations: Please be aware that The GREEN Program involves a structured itinerary and
 moderate workload. You will be expected to attend lectures, complete a group capstone project, and
 actively participate in discussions. With a full schedule, discussions or capstone projects may be
 conducted in the evenings. This program is designed to challenge and inspire you, fostering personal
 and professional growth.
- Rural Homestay Experiences: In certain program locations, like Nepal, participants will have the
 unique opportunity to experience a local homestay. It is important to note that these homestays may
 not provide Western amenities. As part of the rural homestay experience, you may encounter harder
 sleeping surfaces, exposure to farm animals, lack of electricity or running water, and non-Western or
 rustic toilet facilities. These accommodations are an integral part of the cultural immersion aspect of
 the program, providing a genuine glimpse into the local way of life.

PROGRAM EXPECTATIONS

OUR APPROACH

- Next-Day Itinerary and Living in the Moment: We understand that having a well-planned itinerary is crucial for a smooth and enriching experience. Our experienced team meticulously plans each day to ensure a balanced mix of educational sessions, outdoor adventures, cultural immersion experiences, and project development. To foster a sense of adventure and allow participants to fully immerse themselves in the program, we provide the next day's itinerary to the cohort the night before. The goal is for you to focus on the current day's activities, fully immerse yourself in the experience, and make the most of every opportunity. We encourage you to trust our team and the process we have designed to create a meaningful and impactful program. However, we understand that some participants may prefer to have additional information about the itinerary. You can find a detailed overview of the itinerary on our website or in the course catalog. These resources offer a comprehensive outline of the program's activities, destinations, and learning objectives. We invite you to embrace the spirit of living in the moment during your program. Trust in our carefully curated itinerary and allow yourself to be fully present, ready to seize each day's opportunities and discoveries.
- Comfort and Communication: We strive to make your experience as comfortable as possible. However, it's crucial to understand that certain program elements may involve rustic conditions and limited access to modern or Western conveniences. There may be single-room accommodations available for an additional cost. If you'd like to book a single-room accommodation, please contact our team at the time of your enrollment. We recommend bringing appropriate clothing, toiletries, and any necessary personal items to ensure your comfort throughout the program.
- Follow Packing Instructions: To ensure that you are adequately prepared for the outdoor experiences during The GREEN Program, we strongly advise participants to follow the packing instructions provided by TGP. Proper packing is essential to ensure your comfort, safety, and enjoyment throughout the program.
- Personal Responsibility: Participants are responsible for their well-being, including physical fitness, health, and safety. It is important to follow program guidelines, adhere to safety protocols, and inform program staff of any medical conditions or concerns.
- Program Support: TGP's dedicated program staff is available to address any concerns or questions you may have regarding the program experience. We encourage open communication throughout your entire journey with us, and our team is committed to making your journey a memorable and enriching one. As part of TGP's comprehensive onboarding process, we want to ensure that all candidates are well-informed about the program details before embarking on this exciting journey. Our team will provide you with the opportunity to learn more about the program and address any questions or concerns you may have during the pre-program orientation. Enrolled participants should keep an eye out for orientation details, including the date, time, and location, which will be communicated several weeks before the program start date. The orientation is a mandatory session to gather all the necessary information and address any concerns you may have.

Please carefully consider these expectations to ensure that you are fully prepared for The GREEN Program. Remember, your active involvement and commitment will contribute to a rewarding and transformative experience. We look forward to embarking on this educational journey with you.

CODE OF CONDUCT

OUR APPROACH

Code of Conduct

At The GREEN program, we are committed to providing an enriching and transformative study abroad experience for all participants. To ensure a positive and respectful environment, we have established this Code of Conduct and set of expectations for our participants. By joining our program, you agree to abide by these principles and guidelines:

- Respect for Local Culture and Customs:
 - Embrace and respect the local culture, traditions, and customs of the host country.
 - Make an effort to learn about the local language, etiquette, and social norms.
 - Dress appropriately, following local customs and guidelines.

• Sustainable Travel:

- Practice responsible and sustainable travel by minimizing your environmental impact.
- Conserve energy and water resources in accommodations and other facilities.
- Support local businesses and communities by purchasing locally produced goods and services
- Respect wildlife and natural habitats, refraining from any activities that may harm or exploit them.

• Respect for Yourself & Others:

- Treat all participants, staff, and community members with respect, kindness, and dignity.
- Avoid discriminatory or offensive language, behavior, or gestures.
- Foster a supportive and inclusive community that appreciates diversity and encourages dialogue.
- Advocate for your personal well-being. Maintain open and transparent communication with staff, addressing any concerns or issues promptly and respectfully.

• Academic Responsibilities:

- Attend all orientations, classes, workshops, and educational activities as required by the program.
- o Complete assigned coursework, readings, reflections, and assignments on time.
- Engage actively in discussions, group projects, and academic exercises.
- Respect intellectual property rights by properly citing and referencing sources.

• Capstone Project:

- Complete the capstone project assigned during the program.
- Demonstrate innovation, critical thinking, and research skills in the project.
- Collaborate effectively with your peers and mentors during the project development.
- Submit the capstone project within the specified timeline.

Compliance with Local Laws:

- Familiarize yourself with and adhere to the laws, rules, and regulations of the host country.
- Respect local customs, traditions, and societal norms, ensuring your behavior aligns with them.
- Refrain from any illegal activities, including drug use, theft, vandalism, or any form of harassment.

• Health and Safety:

- Notify staff immediately if you require medical assistance or have any health concerns.
- Follow all health and safety guidelines provided by the program and local authorities.
- Carry necessary medications and insurance information with you at all times.

CODE OF CONDUCT

OUR APPROACH

Consequences for Non-Compliance:

Participants who fail to adhere to the above principles and expectations may face the following consequences:

- Ineligibility to join the alumni network and receive alumni benefits of The GREEN Program.
- Loss of academic credit associated with the program.
- Ineligibility to receive a certificate of completion for the program.
- Revocation of any awarded scholarship or financial aid for the program.
- If participants do not conform to these regulations or any specific rules set by their program guides, they risk dismissal from the program, and returning home at their own expense with no refund for the missed tour portion. Decisions regarding program dismissal are up to The GREEN Program and the program leaders.

We believe that by upholding these principles and expectations, our participants will have a rewarding study abroad experience. Together, we will create a welcoming and respectful environment for everyone involved while also respecting the laws and customs of the host country.

HEALTH & SAFETY GUIDELINES

Your health and safety are of utmost importance to us. The GREEN Program is committed to providing a safe and secure environment for all participants. We have taken the necessary precautions to ensure a smooth and secure experience during your time abroad. Please adhere to these guidelines and follow any instructions given by the program mentors and staff:

- Proactive Communication & Self-Advocacy: Participants are encouraged to proactively communicate with The GREEN Program's team regarding any health concerns, allergies, dietary restrictions, or other relevant information that may impact their well-being during the program. Timely and accurate information allows us to better assist and support participants throughout their experience.
- Pre-Trip Medical Consultation: Prior to joining the program, we encourage you to schedule a pre-trip
 consultation with a medical professional and/or counselors. This will allow you to discuss any pre-existing
 medical conditions, obtain necessary vaccinations or medications, and address any health concerns
 specific to the region. Please disclose any necessary information to our team before your trip so we can
 best support you.
- Outdoor & Facility Safety: Throughout the program, you will receive comprehensive safety briefings and training for each excursion and we will follow the tour leaders' instructions at the facility site visits. All excursions will be guided by local, professional guides.
- Environmental Considerations: You'll be immersing yourself in awe-inspiring nature which may also present its own challenges. Please respect the environment, adhere to the principles of Leave No Trace, and follow instructions regarding the protection of local flora and fauna.
- Gear & Personal Protective Equipment (PPE): Your gear is considered safety equipment so please take your gear seriously with our guidance. Certain activities may require the use of personal protective equipment, such as crampons for glacier hikes. Our instructors will provide guidance on the appropriate use of PPE and ensure that all necessary safety equipment is properly utilized. It is essential to come prepared with appropriate clothing layers, including rain gear and warm clothing, to stay comfortable in varying temperatures and weather conditions.
- Mental Health: If you're experiencing mental distress or struggling with your mental health during the
 program, don't hesitate to seek support. Approach any staff member or designated point of contact to
 discuss your concerns confidentially. Staff members can provide you with information about mental health
 resources and support services available during the program. If necessary, they can refer you to qualified
 professionals or local mental health organizations for further assistance and support.
- Contingency and Emergency Response Plan: We have a comprehensive emergency response plan in place, including protocols for communication, medical emergencies, and evacuation if necessary. Our experienced staff members are trained to handle emergencies and will guide you through any unexpected situations.
- Personal Hygiene: Participants are expected to maintain good personal hygiene by regularly washing hands, using hand sanitizers, and practicing proper respiratory etiquette, such as covering coughs and sneezes.
 - Sun Protection: Participants should protect themselves from excessive sun exposure by using sunscreen, wearing hats, and using appropriate sun-protective clothing
- Personal Responsibility: While we prioritize your safety, it is essential to take personal responsibility for
 your well-being during the program. Please follow the instructions provided by our staff, be aware of your
 limitations, and communicate any concerns promptly. Participants are expected to familiarize themselves
 with and respect the laws, customs, and cultural norms of the destination country. You can learn more
 about these with your resources in your student portal.

By adhering to these health and safety guidelines, you can focus on fully immersing yourself in the program's transformative experiences, gaining knowledge, and exploring the destination. If you have any questions or require further information regarding health and safety, please do not hesitate to reach out to our program staff. We are committed to providing a safe and enriching experience for all participants.

DESTINATION HEALTH & SAFETY

Your health and safety are of utmost importance to us. The GREEN Program is committed to providing a safe and secure environment for all participants. We have taken the necessary precautions to ensure a smooth and secure experience during your program. In case of any emergencies, please reach out to your program leaders.

GENERAL SAFETY

Learn more about each destination's safety guidelines, and enroll in the Smart Traveler Enrollment Program (STEP) by the U.S. State Department: https://travel.state.gov/content/travel/en/international-travel-Country-Information-Pages.html

Dial these emergency phone numbers for immediate need for police, fire, or other emergency services:

Iceland: 112Peru: 105Nepal: 100Belize: 911

• New Orleans: 911

VACCINATIONS

Be up-to-date on all vaccinations recommended by the U.S. Centers for Disease Control and Prevention and what's required by each destination to enter. Learn more here: https://wwwnc.cdc.gov/travel/destinations/list

INSURANCE

With safety as our top priority, The GREEN Program requires every participant to have travel insurance. We require that, at a minimum, you are covered for medical expenses including emergency repatriation. We strongly recommend that the policy also covers personal liability, cancellation, curtailment and loss of luggage and personal effects. When traveling on a trip, you will not be permitted to join the group until evidence of travel insurance and the insurance company's 24-hour emergency contact number has been seen by our team. Read more under "Travel Insurance" at www.thegreenprogram.com/terms-and-conditions.

OUTDOORS SAFETY

- · Adhere to all road and hiking signs. Stay on all designated trails
- Do not leave behind any trash or litter. Apply Leave No Trace principles on all outdoor excursions and hikes
- · Wear sturdy, waterproof hiking boots and follow packing guidelines for outdoor excursions
- Adhere to your guides' instructions at all times

See more safety guidelines at https://thegreenprogram.com/health-safety/ under Destination Safety

ADDITIONAL RESOURCES

- See the U.S. Embassy's travel guidelines: https://travel.state.gov/
- Smart Travel Enrollment Program (STEP) Enroll in the STEP Program to receive important information from the U.S. Embassy about safety conditions in your destination country to help you make informed decisions about your travel plans: https://step.state.gov/step/
- A guide for U.S Students Abroad by the U.S. Embassy:
 https://travel.state.gov/content/travel/en/international-travel/before-you-go/travelers-with-special-considerations/students.html

CAPSTONE PROJECTS

WHERE PASSION BECOMES PROGRESS FOR A SUSTAINABLE FUTURE

The program offers students a unique opportunity to work in tandem with students from universities around the world, representing a broad swath of academic disciplines, on the culminating capstone project for the program. The capstone project is a project-based learning experience that challenges students to identify a sustainability challenge, research its history, and apply classroom coursework, field experience, and knowledge from their respective disciplines/professional fields to design a solution that can then be implemented in their communities.

Every participant plays a key role in their capstone group, which is a collective effort of participants from diverse backgrounds and disciplines. Through the capstone project, participants address the interrelated environmental, social, ethical, and economic dimensions of real-world sustainability challenges and ideas. The facilitated capstone development workshops help participants develop a nuanced understanding of the issue, draw on their innate curiosity, and think carefully through each phase of the project. Practicing clear and effective communication, discussing the potential challenges a proposal might face, and strengthening group cohesion are pivotal to the project's success.

From this unique global experience, participants work to integrate sustainability in any field moving forward to drive real, sustainable change. They will make invaluable contributions to the field while supporting their peers in their work.

A number of Capstone Projects have been presented as proposals and are currently in various stages of implementation as non-profit organizations, social impact businesses, or community-based initiatives. Several projects have gained university funding and grants upon students' return to their home institutions.

Explore the Capstone Project Library: https://thegreenprogram.com/capstones



ADVENTURES DESIGNED TO EXPAND YOUR COMFORT ZONE

The adventure and cultural components of The GREEN Program empower our participants to develop and practice the following skill sets while stepping outside their comfort zones:

- · Creative leadership
- Teamwork
- Self-awareness
- · Decision-making
- Cultural competencies

We believe in the power of outdoor leadership and its effectiveness towards developing our participants' confidence, leadership, and sense of discovery.

Our adventure excursions and cultural immersion elements are designed to be both physically and mentally challenging. Adventure and cultural activities may include hiking, exploring geothermal hot springs, wilderness camping, white-water rafting, local cooking classes, rural village homestays, and more. All programs offer their unique excursions and are led and supervised by our professional guides and local partners.

"The GREEN Program was amazing and like nothing I ever experienced before. It brought me out of my comfort zone, allowed me to meet people who are just as passionate about the environment as I am, and taught me more about my strengths and weaknesses.

It was such a unique combination of adventure and education, which allowed me to actually experience the things I learned in a classroom in a real environment. I will remember this trip and the people I met here forever."

- Anya Gilroy, Environmental Science University of Pennsylvania











DISCOVERING NEW CULTURES & BROADENING GLOBAL PERSPECTIVES

The opportunity to immerse yourself in a new culture is a unique and unforgettable experience. At TGP, our programs are led by our specialized teams who are local residents and professionals in each of our host destinations so you can trust that you'll be learning from a local perspective throughout your program.

By learning from local experts in sustainability, participants will gain unique insights and knowledge about the environmental and social issues that affect the local community. Our local model to global education enables travelers to engage in sustainable tourism practices and contribute to the conservation of natural resources while supporting local economies.

Our professional guides and local partners have years of training and experience, share similar interests with our participants, and are passionate about sharing knowledge of their home country. Our team strives to provide transformative experiences through the power of education and travel. The diversity of personalities and skillsets of our teams guarantee a unique level of immersion.

"The GREEN Program has been a unique and rewarding experience. It has broadened my understanding of the challenges we face as a planet through global perspectives and local lenses. I have made good friends and have enjoyed each and every part of the program while learning so much.

It has been so refreshing and inspiring to collaborate and learn among like-minded peers in the midst of such division in our society across and within all cultures.

I have newfound optimism and hope for the future and I am convinced that this program has helped shape me into a more aware, better person."

- Christopher McDonald Industrial & Operations Engineering University of Michigan

IGP

PACKING GUIDELINES

Sustainable Travel Packing Guide

As conscientious travelers, we have the power to make a positive impact on the environment through our packing choices. This list offers practical tips to help you pack more sustainably, from reducing waste to minimizing energy consumption, empowering you to embark on your adventures with a lighter ecological footprint.



1. Opt for reusable travel essentials:

Reduce single-use plastic waste by carrying a reusable water bottle, eco-friendly toiletries in refillable containers, and reusable shopping bags. Did you know that approximately 8 million tons of plastic end up in our oceans each year, harming marine life and ecosystems?

2. Pack versatile clothing items:

Choose clothing that can be mixed and matched to create multiple outfits, reducing the need to overpack. Fast fashion, characterized by its disposable nature, contributes to excessive waste generation and harmful production practices, including high water consumption and toxic chemical use. The same outdoor gear can be worn several times for the program's outdoor adventures (i.e., mid and outer layers, boots, hats, gloves, etc.,)

3. Bring eco-friendly travel accessories:

Consider investing in sustainable travel accessories like bamboo toothbrushes, biodegradable sunscreen, and eco-friendly phone chargers. Small changes like these help reduce waste and minimize the carbon footprint associated with travel.

4. Borrow or buy second-hand:

Shop sustainably for your outdoor gear and join the movement of conscious consumers who prioritize environmental impact and long-lasting quality. Explore thrift stores and give pre-loved gear a second chance, embracing a sustainable lifestyle that reduces waste and cost, while supporting a circular economy. If you plan on spending more time outdoors, purchasing good gear is an investment that you can use for years to come. Also, if you have family or friends whom you can borrow gear from, that's a great option too! Read <u>"The Ultimate Guide to Sustainable Outdoor Gear and Budget-Friendly Traveling"</u> for more tips and resources!

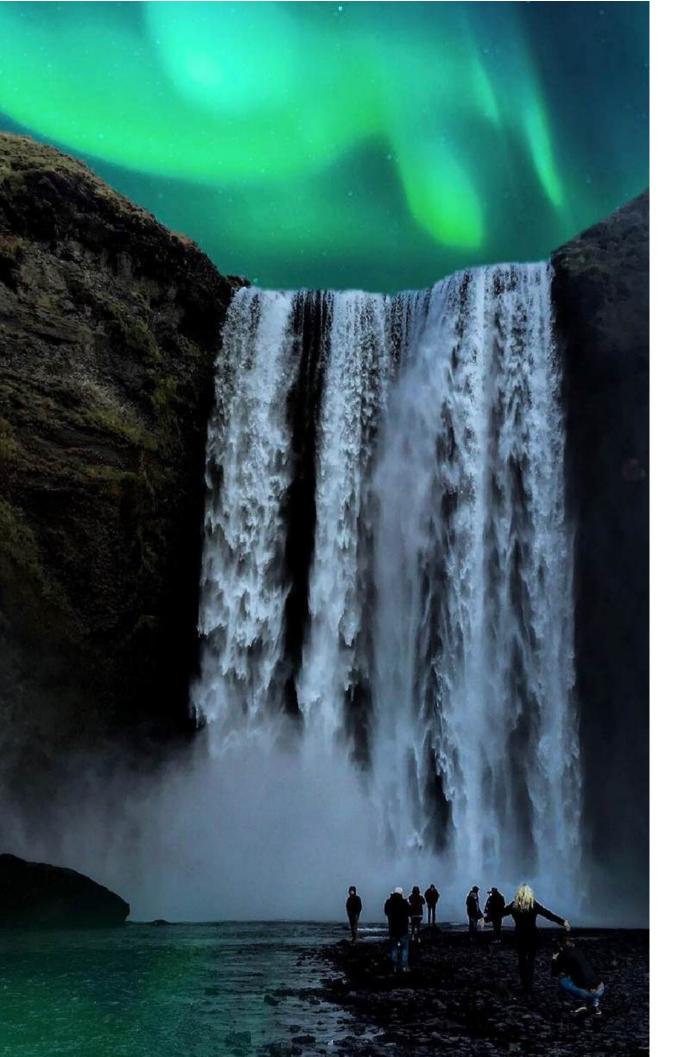
5. Pack light:

Packing light isn't just about convenience; it also plays a significant role in reducing carbon emissions. By traveling with less luggage, you decrease the weight carried by transportation vehicles, whether it's a plane, train, or car. This reduction in weight leads to improved fuel efficiency, as less energy is required to transport your belongings. Ultimately, packing light helps save emissions by minimizing the carbon footprint associated with your travel, making it a sustainable choice for both the environment and your journey.

offsetting carbon emissions

TGP offsets our participants' flights emissions every year.

Our carbon offsetting funds are dedicated to various sustainability initiatives that are voted on by our alumni community annually.



PROGRAMS

DEAR FUTURE GREENIES,

BY ERIN GLOCKE
PENNSYLVANIA STATE UNIVERSITY

You are going to embark on the adventure of a lifetime. The week I just experienced something that I cannot really put into words but I will try my best. The way I see it, the trip and my experiences can be broken into three main categories:

The first is academic. No matter what your major is, you are in this program because you care about sustainability and that field is going to be so much more accessible to you after this trip. You are going to learn the hows, whys, and why nots, and you will speak knowledgeably about it. It's impossible to say what you will do with that knowledge but knowledge is power and this program puts incredible power in your hands that will allow you to make important changes in the world.

The second category is adventure. You will do more on this program than you can possibly imagine. Even after reading the itinerary extensively I was not prepared for the experiences simply because they were too amazing to imagine.

I hiked in a blizzard, bathed in a hot spring in the middle of winter, climbed behind massive waterfalls, and drove across a glacial valley. Be they big or small, the week is filled with countless adventures that will make you feel alive. My advice to you is to embrace every single one of them with open arms. Even if you are uncomfortable or nervous - go for it. Trying new things and getting out of your comfort-zone offer the best experiences and memories in life.

The last category is relationships. I met complete strangers on the first day and am leaving with wonderful friends. Put yourself out there, embrace each individual and share your experiences. Life is best when it is shared and you will meet incredible people to share this part of your life with.

Make every second count.





ICELAND

RENEWABLE ENERGY INNOVATION & SUSTAINABILITY

As one of the greenest countries on our planet, Iceland produces effectively 100% of its electricity and more than 70% of its total energy consumption from renewable energy sources. By combining exclusive access into cutting-edge renewable energy facilities and substantial contact time with leading academic and industrial experts in the field, Iceland is the premier location for a truly hands-on educational experience and a professional launchpad into the fields of renewable energy and sustainability.

In partnership with Reykjavik University's Iceland School of Energy graduate study programs, this course will also explore how Iceland is becoming a leader in renewable energy innovation.

Participants will learn about how the country is utilizing innovative geothermal energy and hydro power technologies and putting these to work in the circular economy, food production, carbon sequestration and capture, and renewable fuel production.

Iceland is a top destination for aweinspiring adventure travel and eco-tourism. Home to jaw-dropping natural landscapes and pristine topography, as well as authentic Nordic culture and welcoming atmosphere, Iceland is TGP's most popular destination for experiential sustainability education, bucket list adventuring, and unique cultural immersion.





"Training a generation of experts for a sustainable world"

1.5 Graduate Credits

- Reykjavik University (RU)
- School of Science & Engineering
- Iceland School of Energy Graduate Program (ISE)
- The GREEN Program: Renewable Energy Innovation & Sustainability

Learn more:
https://en.ru.is/ise/programmes/the-green-program-at-ise

The GREEN Program's Renewable Energy Innovation & Sustainability course is accredited and taught by Reykjavik University's (RU) Iceland School of Energy graduate program in Iceland. Iceland School of Energy is part of and accredited by the School of Science and Engineering at Reykjavik University (RU), and is unique due to its close cooperation with leaders in the field of renewable energy.

Reykjavik University (RU) emphasizes hands-on learning that prepares students for the challenges they will meet after graduation. Throughout their programs, students have the opportunity to create cross-disciplinary work and complete actual, real-world assignments and projects, often in collaboration with companies and institutions.

As Iceland's leading research institute in engineering, computer science, business, and law industries, TGP is proud to partner with Reykjavik University. As a benefit of our partnership, TGP alumni receive priority application to the ISE graduate program as well as exclusive scholarship opportunities.

28

ICELAND | THE COURSE





On The GREEN Program's Iceland course, class topics may include, but are not limited to the following:

- 1. Introduction to Energy in Iceland
- 2. The Basics of Hydro-Power
- 3. Geothermal Energy: An Overview of Exploration, Utilization and Use
- 4. Sustainable Electricity & Environmental Policy

See syllabus for more details.

Learn more: <u>https://en.ru.is/ise/programmes/the-green-program-at-ise/</u>

ICELAND | FACULTY & INDUSTRY PROFESSIONALS





DR. JULIET NEWSON, DIRECTOR, ICELAND SCHOOL OF ENERGY

Since 2011 Juliet worked at Contact Energy Ltd., as a geothermal reservoir modeling engineer, working in close co-operation with reservoir modeling researchers at the University of Auckland, New Zealand. Prior to 2011 she was the original co-organizer of the Postgraduate Certificate in Geothermal Energy Technology for the University of Auckland. She has managed and delivered many other geothermal courses, including the Short Courses for the International Geothermal Association, at the World Geothermal Congress in 2015. She has also been involved in many other aspects of the geothermal industry, including geology, geothermal surface feature mapping, monitoring and modeling, reservoir and wellbore simulation, geological modeling and resource evaluation. Juliet served as a Board member of the International Geothermal Association: where she was Chair of the Education Committee from 2010 to 2013, before taking on the current role of President for the 2013 to 2016 Board term. During this time she developed an interest in the broader topic of the international transition to renewable energy and how this can be facilitated by the involvement of the tertiary education sector. In 2016, Juliet joined RU as the Director of the Iceland School of Energy graduate program.



DR. ÁGÚST VALFELLS, DEAN, DEPARTMENT OF ENGINEERING

Ágúst Vafells received his undergraduate degree in Mechanical Engineering from the University of Iceland and his Ph.D. in Nuclear Engineering from the University of Michigan. Prior to joining Reykjavík University he worked at the University of Maryland doing electron beam research and at Orkustofnun where he worked in the field of alternative fuels. One of his research interests is working on challenges concerning geothermal reservoir modelling. He also has interests in micro-scale vacuum electronic devices and plasma physics.



DR. MARÍA SIGRÍÐUR GUÐJÓNSDÓTTIR. ASSISTANT PROFESSOR

María Sigríður Guðjónsdóttir is the head of the Mechanical and Electrical Engineering programs at Reykjavik University. María received her undergraduate degree in Mechanical and Industrial Engineering at the University of Iceland and her Ph.D. from the University of Iceland and Reykjavik University in 2015. Prior to her Ph.D., María worked as an engineering consultant with Mannvit Ehf. and as a Geothermal Specialist with the United Nations University – Geothermal Training Program.

ICELAND | FACULTY & INDUSTRY PROFESSIONALS





RANDALL MORGAN GREENE, PROGRAM MANAGER

Randall Morgan Greene is the Program Manager and Development officer for the Iceland School of Energy at Reykjavik University. After receiving his undergraduate degree at Florida State University in Public Policy and Economics, he received his MSc in Sustainable Energy at Reykjavik University. He previously had worked in Washington D.C. with the Corporation for Public Broadcasting writing grants for local content, as a Field Organizer for the Democratic National Committee and in research for the Energy Security Initiative at the Brookings Institution.



DR. ÁSBJÖRG KRISTÍNSDÓTTIR, LECTURER

Ásbjörg Kristínsdóttir is the Project Director for Landsvirkjun (Iceland's National Power Company of Iceland) and is currently overseeing the expansion project at the Búrfell Power Plant. Ásbjörg received her undergraduate degree in Mechanical and Industrial Engineering and her MSc, MBA and Ph.D. from the Massachusetts Institute of Technology (MIT) in Construction Management, Energy Risk Management and Business Administration. Additionally, Ásbjörg has sat on the Board of Directors for Landsbankinn, VíS Insurance and the Lífsverk Pension fund.



DR. EINAR JÓN ÁSBJÖRNSSON, ASSISTANT PROFESSOR

Einar Jón Ásbjörnsson is a professor in Mechanical Engineering at Reykjavik University. Einar received his BSc and MSc in Mechanical Engineering from the University of Iceland and his Ph.D. in Materials Engineering from the University of Nottingham. Einar has worked with IVF Engineering as a Project Manager, Reykjavik Energy as a specialist and technical manager in the geothermal field and as a specialist with Iceland GeoSurvey Program.

ICELAND | SYLLABUS





COURSE : RENEWABLE ENERGY INNOVATION & SUSTAINABILITY

PREREQUISITE : NONE, OPEN TO ALL MAJORS
COURSE CODE : THE GREEN PROGRAM: ISE01
SCHOOL : SCHOOL OF SCIENCE & ENGINEERING

DEPARTMENT : DEPARTMENT OF ENGINEERING (ICELAND SCHOOL OF ENERGY)

CREDIT : 1.5 CREDITS (GRADUATE); 60 hours

LANGUAGE : ENGLISH

COURSE DESCRIPTION

The GREEN Program is a 50+ hour intensive, 3 ECTS (1.5 credit hours) experiential education program held in partnership between The GREEN Program and Iceland School of Energy at Reykjavik University. Reykjavik University's faculty and industry experts teach classes at Reykjavik University on sustainability, hydropower, geology, biofuels, policy, and geothermal energy. The course also includes facility tours to various power plants for hands-on learning such as to a hydropower plant, a geothermal power plant and a biofuel innovation site. During the course, students form interdisciplinary groups and develop a final Capstone Project on a specific renewable energy subject which they present for evaluation at the end of the course. Each group is required to present a project highlighting an identified problem and solution. The Capstone Project is expected to be a business proposal for an innovation type project or sustainable initiative, inspired by the educational experience on The GREEN Program. Students are required to present the project in full detail and cover the financial, social, technical, and environmental impact aspects of their innovative idea.

COURSE OBJECTIVE

The objective of this course is understanding the various renewable energy technologies, and its challenges and innovations within the industry on a global perspective.

COURSE OUTCOMES

Introduction to Iceland's Energy: This lecture will focus on understanding how natural forces have influenced the development of Iceland and its inhabitants to their detriment and to their benefit. Understanding the interplay between human activity and the environment.

- Geoscience background of Iceland geophysical processes, mantle convection, Iceland hotspot, volcanism
- Earth science background of Iceland oceanography, thermohaline circulation, climate, glaciology
- Energy history background of Iceland settlement to modern ages
- Modern Icelandic energy system generation and primary energy use, hydro, geothermal wind, future of Iceland energy (Master Plan), long term research projects

Geothermal Energy: This lecture will be a broad overview about geothermal energy including a brief introduction to

- The origin of geothermal energy
- Geothermal exploration
- Drilling technology
- Geothermal utilization (direct use and power production)
- · Environmental, economic, and social aspects of geothermal utilization

ICELAND | SYLLABUS





Hydro-power: This lecture will discuss the basics of hydropower as presented by the manager of hydrological research at the National Power Company of Iceland (Landsvirkun).

- What is hydropower
- Definition of hydropower plants and type of turbines
- Global challenges in hydropower
- Hydropower in Iceland

Reading materials:

- · The future of hydropower in Europe: Interconnecting climate, markets and policies
- · Assessing Environmental Instability and Impacts on Global Hydropower
- Small Hydropower Systems

Sustainable Electricity & Environmental Policy: The first half of this lecture will discuss the main themes driving energy policy making by focusing on the "why" from a political, economic, and planning perspective. The second half of this lecture will focus on the environmental portion of the equation through the lens of environmental resource economics.

- Main themes in government policy
- Balancing political interests
- Economic policy why and what?
- Planning an energy system
- Environment
- Tools for quantifying non-market value in public policy research

METHODOLOGY

The methodology to be used includes a combination of tools in order to facilitate the enhancement of knowledge, promote discussion in class and increase students' ability to formulate proposals, such as: presentation-discussion classes and case studies. The structure of each topic may include readings, followed by oral presentations by the students which will lead to class discussions, group work, and other practical activities. Field trips and site visits are essential to the course, which are programmed on a daily basis. All these activities will be complemented by lectures.

CLASS MEETINGS

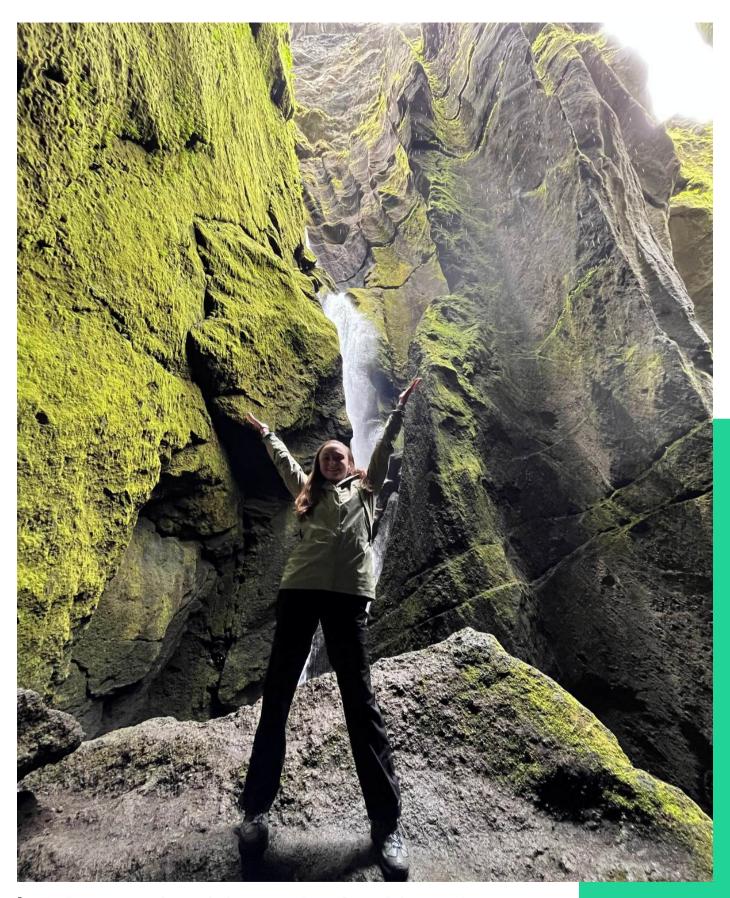
8-day or 9-day intensive course

GRADING & EVALUATION

Course grades will be based on 70% capstone presentations and 30% a final exam. The exam is online with a link delivered through Canvas on the capstone presentation day. The exam is based on slides, readings and lectures from the program.

TRANSCRIPTS & CREDIT

The course is 3 graduate ECTS (1.5 graduate credits) and transcripts can be requested by the students after a grade is given (generally 1 week after the program) by emailing nemendabokhald@ru.is



"The most inspiring and refreshing trip of my academic career!"

PROGRAM ITINERARY

YOUR SUSTAINABILITY ADVENTURE AWAITS

*Note: This is an itinerary overview. It is subject to change contingent on weather conditions and facility schedules. TGP guides will always prepare the group with an updated itinerary for the following day. Programs may vary slightly based on the program's season.

01



Welcome to Iceland!

Upon arrival at the airport, your guides will greet you to commence the program. Explore notable sights, settle into your guesthouse, and connect with your cohort for capstone project discussions. Rest well for the exciting adventures ahead!

02



Geothermal Classes & Excursions Begin your renewable energy education with an "Introduction to Energy" class followed by an engaging class on Geothermal Energy at Reykjavik University. Engage in capstone project development and tour one of Iceland's geothermal power plants and innovation hubs. Get ready for an enlightening exploration of Iceland's energy landscape.

03



Hydroelectric & Energy Policy & Entrepreneurship Classes, Tour, & Adventure

Discover the interconnections of energy and policy with "Introduction to Hydroelectric Power" and "Energy Policy & Entrepreneurship" classes. Tour a historic hydroelectric power plant and witness the forces that drive this technology. Immerse yourself in nature with a geothermal hot spring hike, where you'll have the opportunity to take a dip and relax in the hotspring river.

04



Environmental
Conservation &
The Golden Circle

Learn about Iceland's environmental conservation efforts. Marvel at the natural wonders of Gullfoss and Geysir at the Golden Circle, while learning about the environmental protection sites in Iceland. Indulge in a delicious, locally sourced lunch from a geothermal greenhouse. Engage in capstone development, and contribute to the progress of your team's sustainability initiative.

05



Thor's Valley: Camping Experience in the Highlands Immerse yourself in the breathtaking landscapes of Thor's Valley during a camping experience in the Icelandic highlands. Gain valuable insights into Iceland's wilderness and its preservation efforts. Participants in winter & spring programs will stay in cozy cabins, while those in summer programs will have the adventure of staying in tents. Get ready for an unforgettable exploration!

06



Chasing
Waterfalls,
Volcanic Eruption
Sites, & Innovation

Witness the historic site of the Eyjafjallajokull volcano eruption. Discover the enchantment of Iceland's majestic waterfalls. Engage in capstone development, applying the knowledge gained from your experience so far. Enjoy a warm, home-cooked meal upon your return from the highlands.

07



Black Sand Beaches & Glacier Explorations Discover the captivating allure of Iceland's black sand beaches. Engage in capstone development, actively working towards innovative solutions. Embark on a thrilling glacier walk to witness the tangible effects of environmental impacts, gaining firsthand insights into this pressing global issue. Explore the urgency of the environmental challenges in Iceland's local context.

08



Capstone
Presentations &
Program
Reflections

Complete your Capstone Projects, demonstrating your expertise and creativity. Prepare for the quiz and put your knowledge to the test. Showcase your Capstone Project through compelling presentations. Celebrate your achievements with a memorable final dinner. Reflect on your journey and the knowledge gained throughout this transformative experience.

09



Departures & Joining TGP's Alumni Network Immerse yourself in the vibrant city of Reykjavik, Iceland's capital. Take in the cultural and historical wonders it has to offer. Bid farewell as you head to the airport for departure. Upon returning home, stay connected with your cohort and unlock the benefits of joining the alumni network. Continue your journey even after the program ends, fostering lifelong connections and accessing valuable alumni resources.

advocates for sustainable tourism

supporting the local economies of where our programs operate



Our main lodging sites will be at Hjarðarból Guesthouse and Midgard Basecamp - two local family-run guesthouses along Iceland's south coast. Rooming can vary from double rooms to larger shared rooms (hostel-style). Single-room accommodations may be available for an additional cost. Please inquire with our team at the time of enrollment if you'd like to book a single room. Our team is selective with the housing process to ensure that participants have a safe environment with a touch of local culture and natural landscape to be their home away from home. There will also be overnight trips to other regions of Iceland where participants will gain rare access to the country's highlands and natural landscapes. Here, you'll have the opportunity to immerse yourself in Iceland's raw nature. Tents will be provided for you, and sleeping bags are available to rent if you don't want to bring your own. The heart of Iceland's countryside is also the top place to discover the country's most magnificent energy infrastructure, culture, and history. Learn more at www.hjardarbol.is and https://midgardbasecamp.is/

MEALS

All breakfasts, lunches, and dinners with local cuisine are included on the program (there may be exceptions on arrival or departure days). We accommodate vegan, vegetarian, and gluten-free diets and cater our meals to participants' dietary and health needs. Participants will also have opportunities to try traditional Icelandic foods and to also purchase snacks at local markets in the area. Please disclose any dietary restrictions or allergies to our team in your program registration forms so we can best support you.

IT'S WHAT PUSHED MY RESUME THROUGH

"The GREEN Program stuck out on my resume.
When I interviewed with General Electric,
they were very interested in my Capstone
Project that we created on the program. It's
what pushed my resume through."

- Amanda Berta, Energy Engineering at Penn State University, Renewable Energy Engineer at General Electric



PACKING LIST & GUIDELINES



To ensure that you are adequately prepared for the outdoor experiences during The GREEN Program, we strongly advise participants to follow the packing instructions provided by TGP. Proper packing is essential to ensure your comfort, safety, and enjoyment throughout the program. Here are some guidelines to follow:



Weather and Climate:

Iceland's weather can be unpredictable, so it's important to be prepared for various conditions. Pack clothing that can be layered to accommodate temperature changes throughout the day. Here are some recommendations:

- Warm and waterproof outerwear (jacket, raincoat, or shells)
- Insulating layers (fleece, sweaters, or thermal tops)
- Comfortable and durable pants for outdoor activities
- Sturdy and waterproof footwear suitable for walking on uneven terrain
- Hats, gloves, and scarves for colder days

Outdoor Layered Clothing Guide:

There are three key layers to keep in mind when dressing for the outdoor excursions

1. Base Layer:

- Thermal long-sleeved tops and bottoms: These will provide insulation and keep you warm in chilly weather
- Moisture-wicking fabric: Look for materials like merino wool or synthetic blends that keep you dry by wicking away sweat. Avoid cotton materials to stay warm and dry!

2. Mid-Layer:

- Fleece or softshell jacket: A lightweight yet warm layer that provides insulation
- Sweaters or hoodies: Add an extra layer of warmth and can be easily removed if the temperature rises

3. Outer Layer:

- Waterproof and windproof jacket: Look for a durable shell with sealed seams to keep you dry during rain showers and protect against wind chill
- Waterproof pants: Essential for hiking and outdoor activities in wet conditions
- Wind-resistant pants: Opt for a pair with a soft lining for added warmth

Our Advice: Pack wool (not cotton), wear sturdy boots, and don't hike in jeans. Cotton and denim will stay wet and freeze in cold temperatures. Stick with wool for warmth. Layers are key in Iceland!

PACKING LIST & GUIDELINES

Accessories:

- Warm hat: Choose a beanie or thermal hat that covers your ears to retain heat
- Waterproof, insulated gloves or mittens: Protect your hands from cold temperatures, wind, and moisture
- Scarf or neck gaiter: Wrap it around your neck or face to shield against cold winds
- Thermal socks: Opt for wool, moisture-wicking, and insulating socks to keep your feet warm and dry. Avoid cotton materials to stay warm and dry!
- Sturdy hiking boots: Ensure they are waterproof, and have good traction and ankle support for uneven terrain
- Backpack: A comfortable, waterproof backpack to carry your essentials during day trips and hikes
- Reusable water bottles to refill
- Sunglasses

Other Attire:

- Swimsuit (1-2): Don't miss out on the unique experience of soaking in Iceland's geothermal hot tubs and springs
- Pajamas
- Recommended: Business casual attire for Capstone Project Presentations
- Closed-toed shoes for everyday wear (i.e. for class)

Personal Items:

- Sunscreen SPF 30+ minimum
- · Personal toiletries, body wash, shampoo, conditioner
- Towel: We recommend a microfiber towel for quick drying and easy packing!
- Medications: We recommend keeping it on your carry-on luggage and having a doctor's note available for your medicine while traveling
- Menstrual hygiene products
- Sleeping mask: We recommend this for summer programs to help you sleep through the "midnight sun"
- Reusable water bottle
- Laptop / Tablet for Capstone Projects
- Journal/Notebook & pen
- Icelandic adapter Europlug/Schuko-plug (CEE types 220 volts) 2 round prongs
- Flashlight or headlamp (Winter and spring programs)
- Sleeping bag for camping 0°C (32°F) (Summer program only; Also available for rent in Iceland)
- Optional: Flip-flops/slides for showers or hot tubs

Travel Documents:

- Passport and required visas if necessary
- Photocopies of important documents (passport, visas, insurance, doctor's notes, vaccinations, etc.) are to be kept with your carry-on luggage and separate from the original documents

"THERE'S NO SUCH THING AS BAD WEATHER, JUST BAD GEAR."



4. ACCESSORIES

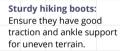
Warm hat: Choose a beanie or thermal hat that covers your ears to retain heat. Waterproof, insulated gloves or mittens: Protect your hands from cold temperatures, wind, and moisture.



Thermal socks:

Opt for moisture-wicking and insulating socks to keep your feet warm and dry. Avoid cotton materials to stay warm and dry!

Scarf or neck gaiter: Wrap it around your neck or face to shield against cold winds.



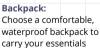


5. EXTRAS

Swimsuit:
Don't miss out on the unique experience of soaking in Iceland's geothermal hot springs.

Portable power bank: Keep your electronic devices charged on-the-go.

Reusable water bottles to refill throughout your program and reduce plastic waste.



during day trips.



40

the world's safest country

with a peace index of 1.072 by the Global Peace Index

DEAR FUTURE GREENIES,

BY MAGGIE ZARLENGO WELLESLEY COLLEGE

Taking any leap like joining a program such as The GREEN Program is one that brings unexpected growth. I entered the Peru program with an awareness of quality of life beyond the United States, but I was not connected to this reality personally. The GREEN program showed me that so many people in this world go without the things we do not give a second thought to, like the struggles of transportation in rugged terrain and the difficulties that arise when there is no clean water to be had.

On our walk along the train tracks to Aguas Calientes, I stepped side by side with men who carry loads for tourists at their own physical risk to improve the lives of their families. We saw how a school and a community relies on a water source that is contaminated with agricultural and mining waste, and there is very little done to prevent this water from making the community ill.

This world is so much bigger than we realize from our privileged perspective, and we must take the time to hear the stories of those who live with less so that we may be a more compassionate and conscious people.

The GREEN program opened borders for me, and I want to continue working with a global mindset so that we all may live safe and happy lives, regardless of location or economic status.

This is a great experience and the chance of a lifetime!



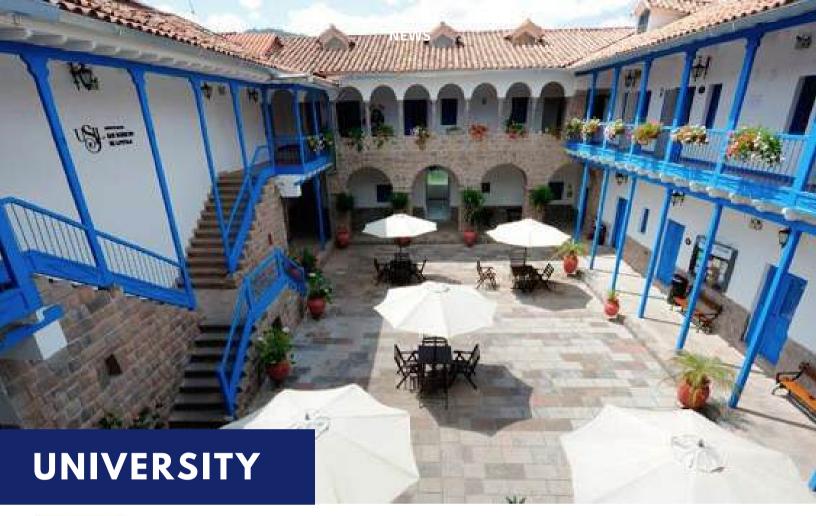


PERU

WATER RESOURCE MANAGEMENT & SUSTAINABLE PRACTICES

Home to a unique culture rooted in the water & agricultural foundations of the ancient Inca Empire, recently ranked as a top global culinary destination, and one of the 8 World Wonders, Peru is undoubtedly a unique destination for sustainable and educational travel.

Combined with the nation's historical technologies for water initiatives and resource management from the Inca Empire, our exclusive facility access allows students and participants alike to dive into Peruvian culture and education like never before. Focused on community engagement, you will participate in developing sustainable implementations with a local community, partake in bucket-list adventure excursions, and build global awareness. Peru is the ideal destination for individuals who are passionate about the mission of global water stewardship, community engagement, and sustainable solutions.





"Shaping socially responsible professionals who meet the demands of the world market."

3 Credits

- Universidad San Ignacio de Loyola
- Biodiversity Department
- Cusco International Campus
- The GREEN Program: Water Resource Management and Sustainable Practices

The GREEN Program's Water Resource Management & Sustainable Practices course is accredited and taught by Universidad San Igacio de Loyola (USIL) in Peru. The course is accredited as a biodiversity course and is unique due to its close cooperation with leaders in the field of water resource management in Cusco, Peru.

USIL's vision as an institution is to be a leader in shaping talented and ethical professionals, according to national and international standards. USIL is a strong international educational organization that shapes competitive professionals who meet the demands of the world market.

As an entrepreneurial institution, USIL synthesizes the global pulse of the fields of academics and joint research, and aspires to be an institution that brings cooperative globalization in academic, institutional, scientific and educational terms.

PERU I THE COURSE





On The GREEN Program's Peru course, class topics may include, but are not limited to the following:

- 1. Water Consumption & Management: Water issues, Pollution, Mining, & Agriculture
- 2. Energy in Peru Peru's Hydroelectric Production & Climate Impacts
- 3. Intro to Peru Geology & Water Usage Inca vs Modern Times
- 4. Sustainability in Peru
- 5. Data Measurement & Water Flow Analysis

See the syllabus for more details.

*Please note that classes are subject to be updated





PROFESSOR OSCAR R. ORTEGA

Professor Oscar R. Ortega joined The GREEN Program as the Leading Professor of the Peru Program in 2014 as part of our partnership with Universidad San Ignacio de Loyola - USIL.

Professor Ortega received his undergraduate degree from the Agriculture Engineering Program at Universidad Nacional San Antonio Abad del Cusco – Perú in 1999 with Honors as the Top Student. In 2005 Professor Ortega earned his M.Sc. Degree in Agronomy and Horticulture at the University of California – Davis – UCDAVIS where he was awarded the Greta Krammer Award.

His research interests are mainly focused on Sustainability and Biodiversity Conservation. In 2006 Professor Ortega and three other researchers founded an NGO called Instituto de Investigaciones para el Desarrollo Sustentable de los Agro Ecosistemas Andinos – IDSA – ANTARKI where their work is dedicated to developing technology and strategies to adapt to climate impacts in Andean rural communities.

As a professor, Mr. Ortega started teaching at a private University in Cusco in 2010 lecturing in courses mainly related to Environmental Impact Assessment. Two years later, Professor Ortega had the opportunity to teach at his home University in Cusco teaching Biostatistics and Experimental Design. Currently, Professor Ortega is teaching in different International Programs where he lectures on topics such as Biodiversity, Andean Nutrition, Sustainable Development, Indigenous Knowledge, Traditional Healing, and International Politics.

Professor Ortega's teaching and research are driven by the conviction that Sustainability can be achieved by educating and creating awareness, analyzing problems as they are, and approaching them in a holistic manner. In sharing his experiences and learning from others, he strives to provide realistic opportunities to the most vulnerable and improve their livelihood.

PERU | SYLLABUS





COURSE: WATER RESOURCE MANAGEMENT & SUSTAINABLE PRACTICES

PREREQUISITE: NONE, OPEN TO ALL MAJORS

COURSE CODE: THE GREEN PROGRAM SCHOOL / DEPARTMENT: BIODIVERSITY

CREDIT: 3 CREDITS; 48 hours LANGUAGE: ENGLISH

COURSE DESCRIPTION

As growing demands for resources and management challenges are increasing, communities around the world are forging ahead in the movement to become more sustainable. Environmental concerns are driving the need for carbon dioxide reduction, energy conservation, and urban heat reduction. Changes in flooding and drought patterns are pushing the communities to assess vulnerabilities and take action to become more resilient. Water scarcity and water quality concerns caused by changing population and land use are forcing communities to think beyond traditional water management approaches, while simultaneously applying indigenous knowledge to these processes.

The high cost of aging infrastructure maintenance and replacement has encouraged many communities to seek alternatives. Increasing concern over energy cost as well as energy security and reliability has increased the public pressure for sustainability. Additionally, the increase in public preference for sustainable agriculture is leading to the revision of field practices and more environmentally friendly technologies.

Through an interdisciplinary approach, this course provides knowledge of the theory and practice of this concept and the investigation of urban and rural water issues from the environmental management perspective. These topics will stimulate a critical examination of the historical and conceptual antecedents. With a focus on water resource management, these topics will also provide experience with the complex challenges of utilizing renewable energy in a sustainable manner. It will review the ecosystem approach to understanding water as a resource and how science, policy, decision–making, ethics, and corporate approaches each play an important role in the management of water in the urban setting. Peru will be examined through case studies.

COURSE OBJECTIVE

The objective of this course is to provide comprehensive knowledge of the theory and practice of water resource management with Peru as the case-study, and investigate global urban and rural water issues from the environmental management perspective through an interdiciplinary approach.

COURSE OUTCOMES

- Gain a comprehensive understanding as well as a personal familiarity with the water resource management issues, techniques, and policies on both a local and global scale.
- Acquire a clear grasp of cost analyses and environmental impact of water scarcity, implementation of hydroelectric energy production facilities among other relevant industries in a historical, present and future context.

PERU | SYLLABUS





- Develop skills to evaluate resources and projects in terms of feasibility within the matrix of technical, economic, environmental, and political implementation.
- Observe Peru's water usage plans with policy implementation, natural resource legislation, and other legislative controls impacting the Peruvian communities.
- Familiarize, gain understanding, and develop problem solving skills focused on the Global Sustainable Development Goals, set forth by the United Nations.
- Advance on the vocabulary and concepts essential to understanding the systematic thinking approach to solving global water issues.
- Develop self-awareness, leadership, teamwork, entrepreneurial, presentation, problem solving, and networking skills through daily capstone project facilitation, team building, excursions, and cultural immersion.
- Gain experience working in an interdisciplinary cohort to create an entrepreneurial solution towards a real-world challenge through the Business Canvas Model and Capstone Project.
- Excel within a network of like-minded participants who aspire to work and innovate in the field of sustainability and social impact.
- Gain a critical global perspective demanded by corporate recruiters today to prepare for accelerated career opportunities.

Content and Learning Activity Schedule						
Class	Week No.	No. hours	lype	Content	Learning Activities	Resources
Modul	e 1:			Nutritional wealth of Andean crops		
1				Team building activity in Park Field	Learn about class content, organization and evaluation criteria. Learn about basic concepts and students assessment.	Preparation of individual interests and course characteristics summary.
2				Color Test and capstone presentation	Learn about class content, organization and evaluation criteria. Learn about basic concepts and students assessment.	Preparation of group interests summaries and project layout.
3				Capstone work	Students intros/interests	Preparation of group interests summaries and project layout.
4				Geography of Peru - Water Usage (inca times vs modern times)	Students should be able to understand why Peru has a high diversity of ecosystems, species and cultures. Impact on water usage.	Reading and discussion. Preparation of summary of Geographical Characteristics of Peru.
5				FIELD TRIP: Tipón (hydro/agriculture site visit)	Learn about Tipón and its characterístics. Value as an Inca irrigation system. Past and present. Fields tests.	Field Trip to Tipón
6				Water Consumption & Management + Water issues. Pollution, mining and agricultura.	Learn about current water consumption in Peruvian society. Overuse and pollution.	Reading and discussion. Preparation of summary of Water consumption and issues in Peru.
7	1			FIELD TRIP: Waste Water Treatment and Huatanay River	Learn about causes, consequences and management of water pollution in Cusco as a case study	Field Trip to Waste Water Treatment and Huatanay River.
8				Energy Class focused on Peru's Hydroelectric Production. Machu Picchu site.	Learn about the Peruvian Hydroelectric production. Machu Picchu Case Study.	Reading and discussion. Preparation of summary of renewable energy status in Peru. Hydro power.
9				Climate Change	Causes and Consequences of Climate Change in Peru.	Reading and discussion. Preparation of summary of climate change concepts, causes and consequences.
10				FIELD TRIP: Site visit to Plan Meriss Inka - discuss policy, irrigation systems, social impacts, climate change effects.	Learn about irrigation systems, local projects and policies.	Field Trip to Plan MERISS
11				Capstone - Decide on ideas tonight, pitch to group. Set ideas.	Set ideas for Final Projects.	Hand-In and discussion of first-draft for final project
12				FIELD TRIP: Machu Picchu, Hydro site visit.	Learn about Machu Picchu. Energy production at the Hydroelectrical Plant.	Field Trip to Machu Picchu Hydro Plant.
13				Hydrology & Watershed Class	Learns the basic concepts. Hydrological Cycle. Watershed structure and morphological characteristics. Delimitation. Importance in Peruvian agriculture as a water source.	Reading and discussion. Preparation of summary of hydrology and watershed concepts
14		- 0		Capstone Presentations	Project presentation	Hand-in and final presentations of groups projects
R	efere	nces:		(1); (2); (3); (4); (5); (6); (7)		

PERU | SYLLABUS





METHODOLOGY

The methodology to be used includes a combination of tools in order to facilitate the enhancement of knowledge, promote debate in class, and increase students' ability to formulate proposals such as: presentations, debates, classes, and case studies. The structure of each topic includes a compulsory reading, followed by oral presentations by the students which will lead to class debates, group works, and other practical activities. Field trips/site visits are essential to the course, which are programmed on a daily basis. All of these activities will be complemented by lectures.

CLASS MEETINGS

9-day or 10-day intensive course

GRADING & EVALUATION

Course grades will be based on the following:

- 40%: Ongoing evaluation (quizzes, written work, readings, research, projects, and presentations). capstone presentations
- 20%: Participation in class (homework, reports, oral participation, discussion, and attitude in class)
- 40%: Final Capstone Project Presentation

TRANSCRIPTS & CREDIT

The course is worth 3 credits and transcripts can be requested by the students after a grade is given by contacting Universidad San Ignacio de Loyola.

PROGRAM ITINERARY

YOUR SUSTAINABILITY ADVENTURE AWAITS

*Note: This is an itinerary overview. It is subject to change contingent on weather conditions and facility schedules. TGP guides will always prepare the group with an updated itinerary for the following day. Programs may vary slightly based on the program's season.

01



Welcome to Peru! Upon arrival at the airport, your guides will greet you to commence the program. After checking into the hotel, explore your surroundings and tour Plaza de Armas in Cusco, and get to your know cohort! Join a welcome orientation, learn about Peru's culture and history, and begin your capstone discussions.

02



Classes & Survey an Incan Archaeological Site Begin your education with an "Introduction to Peru's Geology & Water Usage" class. Discover Peru's geological wonders and the Inca Empire's agricultural site: Hike through ancient testing grounds, conduct a survey, and reflect on the legacy of sustainable water management in this captivating journey through time. Engage in capstone discussions and project development.

03



Pollution Case Studies, Water Treatment Facility Tour, & Salsa Lessons Continue your educational journey to learn about water consumption and management, followed by a visit to Cusco's Waste Water Treatment Facility. Get a glimpse into real-world challenges with water resource management by visiting a local case study of water pollution and its effects on the community. Work in your capstone groups before ending the day with salsa dancing lessons!

04



Class, BioWaste
Facility Tour, &
Journey to Machu
Picchu

Join a comprehensive class and discussion on water resources and the impacts of environmental challenges in Peru. Begin our journey to Aguas Caliente, the city of Machu Picchu. Tour South America's first biowaste facility before visiting Machu Picchu, the first carbon-neutral World Wonder.

05



ATV Adventures & Local Case Study of Policy and Social Impact Dive into a new adventure and tour Peru by ATV! Take an ATV to class where you'll visit a local case study that successfully turned an environmental challenge into a success through community-led policy and proper irrigation systems which led to positive social impact for the community.

06



River Rafting & Capstone
Development

On your way back to Cusco City, the adventures continue! Embark on a river rafting experience that will leave you exhilarated and in awe of Peru's breathtaking natural landscapes. Our expert guides will take you on a journey through rushing waters, navigating exciting rapids, and immersing you in the pristine beauty of Peru's rivers. Return to Cusco for a capstone workshop!

07



Join a Locally-led Service-Learning Initiative Engage with Cusco's vibrant local community and immerse yourself through a meaningful service-learning opportunity. Join a locally-led initiative focused on water resource management and actively contribute to sustainable practices that positively impact the lives of the people and the environment.

08



Energy Production, 3-D Models, & Peruvian Cooking Class

Embark on an enriching journey exploring hydroelectric production in Peru during a comprehensive lecture. Take part in a lab session and create a 3-D survey model of the archaeological site. Before working on your capstones, enjoy a local cooking class to learn more about Peru's world-famous culinary scene. Learn how to make some of the most popular dishes in Peru!

-90 10



Capstone
Presentations &
Departures

Take your final class on sustainability in Peru. Witness the culmination of knowledge and creativity as participants present their captivating capstone projects, showcasing their in-depth research and innovative solutions. Celebrate the completion of your program with a farewell dinner and reflections. The next day, enjoy free time in Cusco before your transfer to the airport and return home. Upon your return, join TGP's Alumni community and stay engaged with TGP!



HOUSING

Our main lodging site will be at Xima Hotel (or similar), a local hotel in the heart of Cusco City. Our team is selective with the housing process to ensure that participants have a safe environment with a touch of local culture and natural landscape to be their home away from home. Rooming can vary from double rooms to larger shared rooms (hostel-style). Single-room accommodations may be available for an additional cost. Please inquire with our team at the time of enrollment if you'd like to book a single room. There will also be overnight trips in other regions of Peru where participants will gain unique access to the country's natural environment outside of the university campus and city. Peru's mountainous terrain is also the top place to discover the country's most magnificent energy resources, and historical Inca infrastructure and Peruvian culture.

Learn more at https://www.ximahotels.com/en/

MEALS

All breakfasts, lunches, and dinners with local cuisine are included in the program (there may be exceptions on arrival or departure days). We accommodate vegan, vegetarian, and gluten-free diets and cater our meals to participants' dietary and health needs. We always recommend drinking bottled or pre-sanitized water, since water in Peru is not potable. Participants will also have opportunities to try traditional Peruvian foods and to also purchase snacks at local markets in the area. Please disclose any dietary restrictions or allergies to our team in your program registration forms so we can best support you.

supporting local economies

Our programs employ and support local and womenowned businesses through our accommodations, meals, academics, and excursions.

PACKING LIST

Our advice for Peru: You'll experience various climates and altitudes. Wear sturdy hiking boots. Don't forget the sunscreen, stay hydrated, and layers are key!

MARCH Days: 52°F-66°F Evenings: 41°F-54°F

- Occasional shoCloudy days
- MAY-AUG Days: 50°F-65°F Evenings: 35°F-43°F
- **DEC-JAN** Days: 54°F-70°F Evenings: 43°F-52°F
- Rainy seasonVibrant festivals
- Lush landscape

Attire

- Long pants and closed-toed boots are required for facility visits
- Bathing suits (1-2)
- Windbreaker / rainproof jacket
- Rainproof shell pants
- Light synthetic jacket
- Underwear, pajamas
- Casual clothing for everyday wear
- Capstone Presentation business casual
- Close-toed shoes for everyday wear
- Waterproof hiking boots (We recommend ankle support)

Personal Items

- Sunscreen SPF 30+
- Personal toiletries, towel, & medications
- Insect repellent
- Sunglasses, hat
- Reusable water bottle
- Separate small/medium-sized pack for overnight trips
- Menstrual hygiene products
- Steripen or water filtration device for consumption (Bottles of water are available for purchase at markets)
- Altitude sickness medication (optional)
- Laptop / Tablet for Capstone Projects
- Smaller pack for 2 to 3-day overnight trips
- Notebook, pen
- Electricity adapter if needed 220 volts and 60 hertz

1. BASE LAYER



2. MID-LAYER



Fleece jacket or sweater: Offers additional insulation during cooler evenings and mornings.



Long-sleeved shirts: For comfortable daytime wear.

3. OUTER LAYER

WARMER WEATHER

Waterproof pants:

Essential for hiking and outdoor activities in wet conditions.



Hat: Provides shade and protection from the strong sunlight at higher altitudes.



4. OUTER LAYER



Scarf or neck gaiter: Keep your neck and face warm in chilly temperatures.

Warm hat or beanie: Protect your head from the cold.





Thick, warm pants or jeans: For colder days and evenings.



Thick sweater or hoodie: Provides extra warmth when layering.

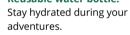


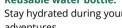
5. GEAR





Reusable water bottle:







- Passport & required visas if necessary
- Photocopies of important documents (passport, insurance, vaccination records, doctors' notes, etc.) to be kept separately

Sturdy, waterproof hiking boots: Essential for trekking and exploring the uneven terrain around Cusco.



Travel umbrella or compact rain poncho: Prepare for occasional rain showers.

5. EXTRAS



Laptop/Tablet for capstone projects



Travel adapter 220 volts and 60 hertz: Charge your devices and electronics.



Sunglasses: Protect your eyes from UV rays and bright sunlight.





Travel towel









DEAR FUTURE GREENIES,

BY SHIRBRINA JEFFERSON RUTGERS UNIVERSITY

I am still in disbelief with how much I have learned from my time in Nepal with The GREEN Program. They provided such an influential learning environment where the impact lasted beyond their 10 day promise. Overall, the mission of TGP was alive throughout the entire trip.

The program was beautifully planned from start to finish. We were provided a great opportunity to explore the diverse elements within sustainable development while learning about the beautiful culture of Nepal. We even participated in the installation process for a microgrid system in a rural village! The trip enabled me to break outside of my comfort zone and to learn more about myself on a professional and personal level.

It was also great to be with individuals from all over the world who were passionate about the environment and the future of sustainability. The people who you will meet during your GREEN experience will become your lifelong friends.

10/10 would recommend TGP to all of my family, my friends, and to all university students who are up for an incredible global experience! If you know anyone who is looking for a study-abroad program, help them narrow their search down to The GREEN Program.

Attending the Nepal program has provided me with a much-needed boost of confidence when it came to to taking on the world and executing my career goal to make sustainable development our future. This trip has impacted me on a personal and professional level. I am extremely grateful and already looking forward to the next GREEN adventure!





NEPAL

MICROGRIDS FOR RURAL DEVELOPMENT

In 2015, a 7.8 magnitude earthquake impacted 30% of Nepal's energy infrastructure. In an ongoing effort, Nepal has been taking strides to include solar as a leading source of alternative energy to help with their energy crisis and societal development.

The GREEN Nepal Program will analyze the role of alternative energy and its practicality, adaptability, and impact in rural societies of developing countries. Selected participants will study a rural village of Nepal and discover how solar energy is impacting the development of local communities and their livelihoods.

Through hands-on education about microgrid system design, TGP participants will execute off-grid solar field project planning and installation. Join The GREEN Program's course to explore the possibilities of alternative energy integration through microgrid systems for rural development.





"Dedicated to the standard of academic excellence for leadership."

3 GRADUATE CREDITS

- Kathmandu University
- School of Development Studies
- The GREEN Program: Microgrids for Rural Development

The GREEN Program's Microgrids for Rural Development course is accredited and taught by the Kathmandu University's School of Development Studies in Kathmandu, Nepal. The course is accredited and is unique due to its close cooperation with industry leaders in the fields of renewable energy and microgrid systems in Nepal.

Kathmandu University (KU) is an autonomous, not-for-profit, self-funding public institution established by an Act of Parliament in December 1991. It is an institution of higher learning dedicated to maintaining the standard of academic excellence in various classical and professional disciplines.

The mission statement of the University is "to provide quality education for leadership." The vision is "to become a world-class university devoted to bringing knowledge and technology to the service of mankind." The University aspires to serve the nation by fulfilling the needs of the society through the motto of taking knowledge and skills from the campus to the community.

NEPAL | THE COURSE





On The GREEN Program's Nepal course, class topics may include, but are not limited to the following:

- 1) Overview of Energy Supply in Nepal
- 2) Introduction to Renewable Energy in Nepal
- 3) Energy, Conservation, & Environment
- 4) Off-grid Solar System Design
- 5) Field Project Planning
- 7) Microgrid Community Installation & Analysis

See the syllabus for more details.

^{*}Please note that classes are subject to be updated





DR. SAGAR RAJ SHARMA, DEAN, SCHOOL OF ARTS, DEPARTMENT OF DEVELOPMENT STUDIES

Dr. Sharma is the Dean of The School of Arts and The School of Development Studies at Kathmandu University. Dr. Sharma has a PhD in Development Economics and specializes in teaching entrepreneurship and development, human dimensions of development, and Nepal's plans and policies. Dr. Sharma's area of expertise is in land reform, food security, migration, foreign aid, and development.



KISHOR RIMAL, PROJECT MANAGER, GIVE POWER FOUNDATION & SOLAR SCHOOLS

Kishor has been working for solar energy and sustainable tourism in Nepal for more than 10 years. Kishor has a strong knowledge of remote areas in Nepal due to his intensive travels through his work and life experiences. He has travelled to all of Nepal's 75 districts and believes in learning by travelling. He is also a Great Himalayan Trekker (84 day hike) that stretches around 1800 KM from East to West of Nepal across the Himalayan belt. Kishor has successfully led and operated one of the most popular solar companies in Nepal. He has also founded several impact-based startups in Nepal that are creating positive impact and operating successfully. With his experience in renewable energy, entrepreneurship, and strong leadership skills, he was hired by SolarCity. Today, Kishor works with the Give Power Foundation in San Francisco as the Global Trek Manager where he oversees impact travel programs with Solar Energy into South Asian, East Asian, and African regions.

NEPAL | SYLLABUS





COURSE : ALTERNATIVE ENERGY, MICROGRIDS, & RURAL DEVELOPMENT

PREREQUISITE : NONE, OPEN TO ALL MAJORS

COURSE CODE : DEVS 549 / HNRS 549

SCHOOL: KATHMANDU UNIVERSITY, SCHOOL OF ARTS DEPARTMENT: DEPARTMENT OF DEVELOPMENT STUDIES

CREDIT : 3 GRADUATE CREDITS (66+ HOURS)

LANGUAGE : ENGLISH

COURSE DESCRIPTION

Despite having massive hydro energy potential, Nepal faces a severe energy crisis. Nepal also confronts the challenges of poverty, rising inequality, and environmental impacts - all at the same time. There are still over four million households out of about five and a half million households that still need access to clean energy options for cooking, lighting, and heating in Nepal. The energy mix pattern of Nepal shows that most of the total energy comes from fuel wood. The majority of rural populations are meeting their energy needs by burning biomass in traditional stoves, and mostly fossil-derived fuels are imported. Also, the continuous increase in petroleum imports has an adverse impact on its fragile economy. The rural population needs reliable and sustainable sources of energy for two basic reasons: to foster decentralized economic growth and, to build the resilience of communities in the face of environmental disasters. In a country that has a diversified structure of land from plains to high Himalayas and where the settlement pattern is scattered and sparse, electricity from the national grid is not feasible in many places. As such, Nepal needs appropriate and localized solutions for remote and rural areas that will reduce the dependence on biomass energy sources and fossil fuels, while reducing the energy crisis of the nation.

Since the devastating earthquake that struck Nepal in 2015, the country has been working towards recovery and restoration. After the earthquake, there has been a nationwide concern for a slow redevelopment plan. With nearly 70% of the affected communities are still living in temporary shelters, the rise of micro-grid energy solutions are being introduced to electrify rural areas that were affected by the earthquake while renewable energy is a sector that is rapidly developing in Nepal. Certain communities in Nepal can also experience power outages with an average of 10 hours per day; however, private installations of solar energy and microgrid systems are perceived to be viable solutions.

This course provides wide knowledge of microgrid technologies, energy policies in Nepal and its implementation, especially in rural communities. It is an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field and an emphasis on alternative energy sources and their technology and application. It consists of lectures and site-visits including solar and hydro power facilities and rural communities to install microgrid systems and assist in Nepal's efforts to electrify rural areas.

COURSE OBJECTIVE

The objective of this course is understanding the various microgrid technology and its challenges towards implementation in rural and developing societies.

NEPAL | SYLLABUS





COURSE OUTCOMES

- Gain a comprehensive understanding of microgrid technologies and development in Nepal and implementation in developing societies.
- Familiarize, gain understanding, and develop problem solving skills focused on the Global Sustainable Development Goals, set forth by the United Nations.
- Attain a clear grasp of cost analysis and environmental impact of renewable energy production facilities in a historical, present and future context.
- Develop skills to evaluate energy sources and microgrid projects in terms of feasibility within the matrix of technical, economic, environmental, and political implementation.
- Gain experience working in an interdisciplinary cohort to create an entrepreneurial solution towards a realworld challenge through the Business Canvas Model and Capstone Project.
- Observe Nepal's energy policies, natural resource legislation, and other legislative controls impacting the production and sale of electricity in the nation.
- Advance on the vocabulary and concepts essential to commercial energy production, transmission, management, community development, and legislation.
- Develop and practice self awareness, leadership, teamwork, entrepreneurial, presentation, and networking skills through daily capstone project facilitation, team building, excursions, and cultural immersion.
- Excel within a network of like-minded participants who aspire to work and innovate in the field of development studies, renewable energy, and sustainability.
- Gain a critical global perspective demanded by corporate recruiters today to prepare for accelerated career opportunities in sustainability and social impact.

METHODOLOGY

The methodology to be used includes a combination of tools in order to facilitate the enhancement of knowledge, promote discussion in class and increase students' ability to formulate proposals, such as: presentation-discussion classes and case studies. The structure of each topic includes a compulsory reading, followed by oral presentations by the students which will lead to class discussions, group work, and other practical activities. Field trips and site visits are essential to the course, which are programmed on a daily basis. All these activities will be complemented by lectures.

CLASS MEETINGS:

10-day intensive

COURSE OUTLINE

DAY 1: Capstone Introduction (1 hour); Capstone start-up. Group setting and selecting topics and interests. (2 hours)

DAY 2: Intro to Renewable Energy & Microgrid Systems in Nepal: Renewable Energy in Developing Societies (1.5 hours); Socio-economics of Rural Electrification (2 hours); Site visit (2 hours); Capstone Development (3 hours)

NEPAL I SYLLABUS





DAY 3: Microgrid Policies in Nepal (1.5 hours); Rural Electrification & Resiliency - Sustainability of Microgrid & Off-Grid Applications; Long-term Benefits (2 hours); Site visit (2 hours); Capstone Development (3 hours)

DAY 4: Photovoltaic Microgrid Design (2 hours); Stakeholder Communication Techniques for Implementation (3 hours); Site visit (2 hours); Site visit (1 hour); Capstone Development (2.5 hours)

DAY 5: In the field - Energy installation and community immersion (7 hours)

DAY 6: In the field - Energy installation and community immersion (7 hours)

DAY 7: In the field - Energy installation and community immersion (7 hours)

DAY 8: Installation debrief and review (3 hours); Capstone Development (3 hours)

DAY 9: Capstone development (3 hours)

DAY 10: Capstone development (3 hours); Capstone Project Final Presentations (3 hours)

TOTAL: 66.5 HOURS

EVALUATION

Evaluation will be made based on Capstone Project final presentation, discussions, and participation.

READING LISTS

To be determined.

PROGRAM ITINERARY

YOUR SUSTAINABILITY ADVENTURE AWAITS

*Note: This is an itinerary overview. It is subject to change contingent on weather conditions and facility schedules. TGP guides will always prepare the group with an updated itinerary for the following day. Programs may vary slightly based on the program's season.

01



Welcome to Nepal!

Upon your arrival at the airport in Nepal, our team will warmly welcome you and provide transportation to your guesthouse. After settling in, you'll have the opportunity to meet your fellow cohort members during an orientation session, followed by an introduction to the Capstone Project, culminating in a delightful welcome dinner to kick off your adventure in Nepal.

02



Classes &
Exploring
UNESCO World
Heritage Sites

Begin your day with an engaging class on "Introduction to Energy, Conservation, and Environment in Nepal," followed by "Solar Energy & Microgrid Systems in Nepal." In the afternoon, immerse yourself in the rich cultural history of Kathmandu by exploring the UNESCO World Heritage Site, Patan Durbar Square. Later, channel your knowledge into your Capstone Project development.

03



Classes &
Historical
Architecture Tour
of Kathmandu

Continue your educational journey to learn about "Rural Electrification & Resiliency" and "Solar Microgrid Design & Energy Audits." Then explore the history and architecture of Kathmandu. In the afternoon, dive into field project planning before gearing up for an authentic village homestay experience.

04-08



Village Homestay Experience &Completing a Microgrid Installation

Days 4 to 8 are dedicated to your local village home-stay, where you'll actively participate in microgrid installation and evening discussions. The week culminates with a special Community Solar Installation Inauguration Ceremony, uniting you with the local community to celebrate your sustainable energy contribution. On Day 8, bid farewell to the village and return to Kathmandu.

09



Capstone Project
Presentations &
Final Dinner

In the program's final phase, you will complete your Capstone Projects, applying your newfound knowledge to address energy sustainability in local communities. Following project completion, your group will present their achievements, receive feedback, and culminate their journey with a memorable Final Dinner, fostering reflection, gratitude, and strengthened connections with peers and the local community.

10



Airport Departures

Enjoy some leisurely free time in the morning to explore independently or relax. Later, we'll provide airport transfers for your departure, ensuring a smooth and convenient end to your Nepal experience.



HOUSING

Our main lodging site will be at a local guesthouse, in Kathmandu, Nepal, and a close proximity to Kathmandu University. Our team is selective with the housing process to ensure that participants have a safe environment with a touch of local culture and local city landscape to be their home away from home. There will also be an overnight stay in other regions of Nepal's rural communities where participants will install the microgrid systems and gain unique experiences and access to the local communities outside of the university campus and city.

MEALS

All breakfasts, lunches, and dinners with local cuisine are included in the program (there may be exceptions on arrival or departure days). We accommodate vegan, vegetarian, and gluten-free diets and cater our meals to participants' dietary and health needs. Participants will have opportunities to try traditional Nepalese cuisine and purchase snacks at local markets. Please disclose any dietary restrictions or allergies to our team in your program registration forms so we can best support you.

READY TO TAKE ON THESE CHALLENGES

This program turned out to be so much more than I could have ever expected. I feel excited for the future again, and more confident that I can take on these challenges. I've learned something new from everyone I interacted with- whether about a new part of the field or a new outlook on life, It's never too late to change directions. I'm so grateful for the experiences I had and the friends I made.





PACKING LIST: NEPAL

WEATHER IN KATHMANDU

May has some of the warmest days in Kathmandu: Highs of 83°F (28°C) and lows of 61°F (16°C) August ranges from a high of 76°F (24°C) to a low of 65°F (18°C). December/January averages a high of 67° (19°C) to a low of 40° (4°C)

GENERAL ADVICE

- Bring fast-drying clothes that you don't mind getting dirty, 100% cotton is discouraged.
- "Less is more" when it comes to packing. You'll need to take a separate backpack with you to the village (3-4 nights). The rest of your belongings will stay in storage at the Kathmandu guesthouse during this time.
- Covering up is recommended to mitigate mosquitoes and sunburns (long sleeve, moisture-wicking shirts, pants, socks, and neck buffs) IMPORTANT: All participants will be required to wear pants, long sleeves, and closed-toed shoes during the solar installation and/or construction.
- There are no charging stations in the village for your electronics. There's no better time than to enjoy the present!

PERSONAL GEAR

- Separate small/medium-sized pack for the village
- Water bottle
- · Headlamp or flashlight, required
- · Hat, Sunglasses, Gloves/Buffs for warmer months
- Fast-drying towel
- · Ziploc bags for trash and to keep your belongings dry

CLOTHING

- · 2-3 pairs of fast-drying pants
- · 2 pairs of shorts for warmer months
- · 3-4 fast-drying shirts, short and long sleeves
- Undergarments
- Moisture-wicking hiking socks
- · Bathing suit
- · Pajamas breathable long sleeves and pants
- · Hoodie, sweater, or mid-layer jacket
- · Warm jacket for colder months and evenings
- Waterproof rainshell jacket
- Casual attire for classes, tours, and capstone presentations

FOOTWEAR

- Pair of light, hiking boots or trail shoes (waterproof and ankle support)
- Comfortable walking shoes for daily wear

PERSONAL CARE/HYGIENE

- Personal toiletries
- · Medications to keep on carry-on baggage
- Bug spray
- Sunscreen
- Menstrual hygiene products
- Biodegradable soap for bathing and washing clothes

MISCELLANEOUS

- · Laptop/tablet for capstone projects
- · Camera
- Notebook and pen
- · Spare charged battery pack and/or batteries
- · Snacks, bars (optional)
- Bedding flat sheet or sleeping bag liner (optional) [If needed, GivePower will provide mosquito nets and hammocks to sleep in]
- Electricity adapter 230V supply voltage and 50Hz; Plug type C, D, M

LEISURE

- Games not requiring English, (i.e., playing cards, jump ropes)
- · Book or kindle (optional)

TRAVEL DOCUMENTS

- · Passport and required visas if necessary
- Photocopies of important documents (passport, insurance, vaccinations records, etc.) to be kept with carry-on baggage
- Copies of personal documents (passport, credit





BELIZE

SUSTAINABLE ACTION FOR COSTAL COMMUNITIES & OCEAN CONSERVATION

The GREEN Program's "Sustainable Action for Coastal Communities & Ocean Conservation" program is a 66+ hour intensive program that takes a local, place-based approach and utilizes experiential learning, service-learning, professional development, and intercultural learning components in Belize. On this 10-day travel program, participants will learn from a speaker series of industry experts who are leading local, community-based initiatives around the intersections of SDGs #13 Climate Action, #14 Life on Land, and #15 Life Below Water. The speaker series will share local approaches to ocean conservation, current challenges in marine resources, coral reef restoration, the coexistence between life on land and life underwater, and social entrepreneurship.

In conjunction with the speaker series, students will work alongside various local community organizations and participate in citizen science, learn about marine ecology, and support the conservation and stewardship of the Belize Barrier Reef. Throughout the program, students will work in interdisciplinary groups to complete a Capstone Project that provides an innovative solution to a real-world sustainability challenge around SDGs #13, #14, and #15. Students must use a systems-thinking approach and consider the financial, engineering, environmental, and social impact aspects of their ideas and detail these aspects in their presentations.

Upon completion of the program, participants will receive TGP's Certificate of Completion. The digital certificate also provides job analytics and insights to connect the skills that students gain on this program with jobs available today.

BELIZE | SYLLABUS



COURSE: SUSTAINABLE ACTION FOR COASTAL COMMUNITIES & OCEAN CONSERVATION

PREREQUISITE: NONE, OPEN TO ALL MAJORS

CREDIT: CREDIT-ELIGIBLE. Speak with your advisor about the possibilities of gaining academic credit for this

program.

LANGUAGE: ENGLISH

COURSE DESCRIPTION

The GREEN Program's "Sustainable Action for Coastal Communities & Ocean Conservation" program is a 66+ hour intensive program that takes a local, place-based approach and utilizes experiential learning, service-learning, professional development, and intercultural learning components in Belize. On this 10-day travel program, participants will learn from a speaker series of industry experts who are leading local, community-based initiatives around the intersections of SDGs #13 Climate Action, #14 Life on Land, and #15 Life Below Water. The speaker series will share local approaches to ocean conservation, current challenges in marine resources, coral reef restoration, the coexistence between life on land and life underwater, and social entrepreneurship.

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Upon completion of the program, participants will receive TGP's Certificate of Completion. The digital certificate also provides job analytics and insights to connect the skills that students gain on this program with jobs available today.

OBJECTIVE

The objective of this course is to develop an understanding of the role that oceans play in a sustainable future and gain real-world experience in ocean systems-thinking and stakeholder engagement through a local, place-based approach to action for a more sustainable future.

LOCATION

Belize is a Caribbean country located on the northeastern coast of Central America. Belize borders Mexico to the north, the Caribbean Sea to the east and Guatemala to the west and south. It has an area of 22,970 square kilometers (8,867 sq mi) and a population of 419,199 (2020). Its mainland is about 290 km (180 mi) long and 110 km (68 mi) wide. It has the lowest population and population density in Central America. The country's population growth rate of 1.87% per year (2018 estimate) is the second highest in the region and one of the highest in the Western Hemisphere. Its capital is Belmopan, and its largest city is Belize City.

The program will take place in various locations in Belize: Placencia, Raye Caye, Tobacco Caye, Laughing Bird Caye, and Dangriga.

BELIZE | SYLLABUS



CULTURE

Belize an culture has a unique blend of influences from all over the world. It's this blend that gives the people of Belize the distinct ability to make anyone feel welcome. While you may be far from it when you visit, we'll make you feel right at home. From cuisine to language to dancing, explore the cultures and traditions that make Belize so unique. Creole, Mestizo, Garifuna, and Maya are a few cultures that are found in Belize. Participants will have the opportunity to engage with intercultural experiences during their TGP program in Belize. Learn more about Belizean culture HERE.

TEACHING METHODS

Students will explore the numerous topics and site visits associated with sustainable coastal communities and ocean conservation by completing the speaker series, service-learning, experiential education, and capstone project on the program. The knowledge gained in the speaker series is intended to provide context and insight when conducting citizen science, assisting local community organizations, and the Capstone Project.

Total hours: 66 hours. 36 hours of experiential learning, 10 hours of service-learning, 5 hours for intercultural learning, and 15+ hours of collaborative capstone project development.

EDUCATIONAL MATERIALS & SPEAKER SERIES

Students are provided with pre-program education online content on The GREEN Program's portal. These resources provide context to sustainable development efforts in Belize before travel, and include the following content:

- U.N. Sustainable Development Platform: Belize
- SDG Academy (videos)
 - o Our Ocean: A Finite Resource
 - o Introduction: The Oceans and Sustainable Development
 - From Ocean Science to Ocean Sustainable Development
 - The Ocean and Concepts of Sustainability
- Algae/Seaweed planting training manual
- · Ocean safety guide
- Sustainable travel guidelines
- Capstone Project resources, and more.

Each speaker's presentation in the speaker series serves as a platform for accelerated learning on the program. After engaging in the conversation and content, students are expected to be able to read and understand basic concepts of the presentation topic. Students then apply their learning and comprehension of this material at the service learning and experiential learning activities the following day. Speaker presentations include the following and are subject to updates:

- Marine Biology State of Ocean Conservation in Belize; Identification of Fish and Coral
- Coral Reef Restoration & Best Practices for Sustainable Travel
- Introduction to South Water Caye Marine Reserve
- Current Challenges in Marine Resources
- Service-Learning Preparation & Training Workshops



SERVICE-LEARNING & EXPERIENTIAL EDUCATION

Students are provided with service-learning and experiential education learning opportunities with a focus on a community-led, and place-based approach. Below are examples of the hands-on learning opportunities that students will participate in. Please note that service-learning projects are subject to change for each program based on the needs of our community partners. Below are examples of potential projects:

1. Placencia Village, Belize: Sustainable Seaweed Aquaculture - Seaweed Farm Maintenance with Belize Women Seaweed Farmers Association (BWSFA) & The Nature Conservancy:

Project objectives: The seaweed farm maintenance project supports sustainable livelihoods for a women-led community-based organization. Documenting the diversity of life around the BWSFA seaweed farms provides valuable data on the benefits of seaweed farms and the life they support underwater | <u>Article by The Nature Conservancy</u>

- Students will learn basic planting techniques for replanting and maintaining BWSFA seaweed farms near Ray Caye in Southern Belize.
- Students will identify and document the type of algae found on the seaweed farm. Subsequent groups will assist with monitoring the algae and identifying the type of algae found on the seaweed farm.
- Students will share the algae monitoring data with BWSFA.
- Document the diversity of sea life as a result of seaweed farms.
- Students are asked to collect research information on Kappaphycus alvarezii and provide insights on this seaweed not commonly found in the area.
- Ongoing monitoring of algae and their growth rate is a meaningful service project for students. Each
 group should share an electronic report with the women's group for ease of reporting, data collection, and
 dissemination.

Skills, equipment, and support are needed to safely carry out the aforementioned activities:

- Strong swimmers, comfortable in water 5-6ft+, can float for 2-3 hours
- All participants will be provided with personal flotation devices (PFDs) for all water activities
- Participants should be comfortable swimming and floating in the ocean with the personal floation device

Tools: Gloves and equipment for scraping algae will be provided by BWSFA

Training: Training on how to tie knots for replanting purposes will be done during the boat transfer to Ray Caye. Students participating in this program are asked to read e-copies of the planting training manual before arrival in-country.

2. Capacity Building Project with Belize Women Seaweed Farmers Association (BWSFA) & The Nature Conservancy:

Project objectives: The Capacity Building for Belize Women Seaweed Farmers Association is an impactful service-learning initiative designed to empower and support the Belize Women Seaweed Farmers Association (BWSFA) in their mission to create a sustainable and thriving organization. As a newly formed organization, BWSFA faces various challenges, including limited resources and the need to effectively communicate their goals and initiatives to potential stakeholders and donors. In this project, students will play a vital role in identifying and addressing these capacity building needs.



PROJECT GOALS

- Strengthen Organizational Capacity: Work closely with the BWSFA team to identify areas where the organization requires assistance and offer tailored solutions.
- Create Professional Presentation Materials: Develop high-quality presentation materials to help BWSFA
 effectively communicate their mission, achievements, and goals to potential donors, partners, and the
 wider community.
- Raise Awareness and Funding: BWSFA will utilize these materials to raise awareness about their seaweed
 farming efforts and secure funding opportunities that will contribute to the sustainability and growth of
 the organization.

Skills practiced and gained for capacity building projects:

- Graphic Design: Proficiency in graphic design software to create visually engaging materials.
- Research: Strong research skills to identify potential funding opportunities and best practices in organizational development.
- Communication: Effective written and verbal communication skills to convey BWSFA's mission and needs to various stakeholders.
- Project Management: Ability to plan and execute projects, ensuring they meet their objectives and deadlines.
- Marketing and Public Relations: Skills in marketing and PR to help increase BWSFA's visibility and reach.

By participating in this capacity-building service-learning project, students will not only gain valuable real-world experience but also contribute to the growth and sustainability of the Belize Women Seaweed Farmers Association, ultimately helping them achieve their mission of empowering women in seaweed farming and creating a positive impact on the local community and environment.

3. Community-Led Ocean Cleanup Initiative:

Project description: Participants will join a beach cleanup effort in collaboration with a community-led organization to help restore and reduce pollution entering the ocean ecosystem. (Project availability will align with the community's schedule and planned clean up efforts.)

CAPSTONE PROJECT

Throughout the program, participants will work together to create innovative solutions towards real-world challenges in sustainable development with a focus on SDGs #13 Climate Action, #14 Life on Land, and #15 Life Below Water. The Capstone Project addresses current challenges within the UN's 17 Sustainable Development Goals and is focused on eradicating poverty, inequality, and environmental degradation.

Created in interdisciplinary cohorts, students will create innovative solutions that integrate political, business, social, and environmental approaches with participants from various disciplines and experiences. Students will use the business model canvas and golden circle frameworks to create their capstone projects. See our pedagogy and learning outcomes here. See examples of past capstone projects here.



LEARNING OUTCOMES

- Gain a comprehensive understanding and real-world experience in ocean systems thinking, local stakeholder engagement, and understanding the role oceans play in a sustainable future.
- Participate in service-learning activities, and citizen science with a focus on SDGs #13 Climate Action, #14 Life on Land, and #15 Life Under Water.
- Develop and practice in-demand skills through capstone innovation projects and local service-learning projects with an interdisciplinary approach.
- Problem Solving & Innovation
- Intercultural Collaboration
- Communication & Leadership, and more
- Observe and participate in local non-profit organizations' efforts to sustain life on land and life underwater. Learn about marine ecology and support the conservation and stewardship of the Belize Barrier Reef.
- Advance on the vocabulary and concepts that are essential to ocean conservation, how humans interact
 with the ocean, and what solutions are available to support the sustainable use and stewardship of our
 planet.
- Develop leadership, confidence, and teamwork skills through unique adventure excursions such as ziplining, snorkeling, and more!
- Build intercultural competence through integrated intercultural competency training and discussions, site visits, and more.
- Collaborate and excel within a network of like-minded participants who aspire to work and innovate in the field of sustainability.

SCHEDULE

Students are expected to complete the pre-program education materials before the start of their program. The program dates are selected by the student and approved by The GREEN Program. Program dates are listed on our <u>website</u>.

ASSESSMENT

Program performance will be assessed based on participation and completion of the program. To complete the program, students must actively participate in the speaker series, service-learning, and experiential education activities, and complete a Capstone Project presentation.

CERTIFICATE AND CREDITS

Upon completion of the program, students will receive a digital Certificate of Completion from The GREEN Program. Grades will not be assigned for this program; however, students will be assessed on a "Complete" or "Incomplete" basis. Please allow up to two weeks for the certificates to be processed. Students will receive the digital certificates via email with instructions on how to add the certificate to their resume and LinkedIn and get access to job insights and data. Contact info@thegreenprogram.com or your TGP representative for additional information or support.

*Note: While this program is not credit-bearing, it may be eligible for credit at your home university. Speak with your advisor about the possibilities of gaining academic credit for this program.

PROGRAM ITINERARY

YOUR SUSTAINABILITY ADVENTURE AWAITS

*Note: This is an itinerary overview. It is subject to change contingent on weather conditions and facility schedules. TGP guides will always prepare the group with an updated itinerary for the following day. Programs may vary slightly based on the program's season.

01



Welcome to Belize!

Upon your arrival, you'll embark on a full day of activities, including settling into housing, a warm welcome lunch, orientation sessions, capstone presentation introductions, and meeting the Belize Women Seaweed Farmers Association.

02



Mangrove
Explorations &
Capacity Building
Project

Explore the wonders of the mangrove forest and its ecosystem with a morning snorkeling excursion, followed by an afternoon of hands-on service project implementation and seaweed farm maintenance training with the Belize Women Seaweed Farmers Association (BWSFA). Begin your capacity building project and discussions with BWSFA. Take part in the intercultural learning co-curriculum, before enjoying a group dinner.

03



Seaweed Farming Service-Learning Project

Today's focus is on experiential learning as you join the Belize Women Seaweed Farmers Association (BWSFA) for a full day of farm activities and data collection near Ray Caye. Engage in seaweed farm maintenance tasks such as cleaning algae, documenting algae types, replanting seaweed, and recording the diversity of life around the seaweed farm. After this enriching experience, return to Placencia for personal time and a group meeting, intercultural learning, and capstone discussions.

04



Discover Coral Restoration Efforts & Snorkel at a World Heritage Site

Dive into a day of underwater exploration with a snorkeling adventure at Laughing Bird Caye, a premier protected area within the World Heritage Sites. Discover the vibrant marine life and coral reefs during a full-day excursion. In the evening, engage in a discussion about coral reef restoration and the unique marine ecosystem of Laughing Bird Caye during a program group meeting, which includes debriefing and capstone discussions.

05



Learn about Mayan Culture, Cuisine & Local Flora & Fauna

Savor a morning of environmental, wildlife, and Mayan culture exploration with a guided tour of The Cockscomb Basin Wildlife Sanctuary, including insights into its history and an enjoyable walk learning about local flora and fauna. Relish a locally made traditional Mayan lunch. In the evening, wrap up assignments and engage in discussions on intercultural learning co-curriculum before preparing for your departure to the rain forest the following day.

06



Creatures of the Night Hike & Rain Forest Exploration

Embark on a transitional day focused on rainforest life and nocturnal creatures. After settling into a local jungle lodge, and enjoying some free time during the day, take part in a "Creatures of the Night" hike to explore the fascinating world of nocturnal wildlife in their natural habitat.

07



Capstone Project
Presentations &
Final Dinner

Today, dedicate your efforts to Capstone Project finalization, culminating in program presentations and a debriefing session. Conclude your journey with a memorable farewell group dinner, celebrating your accomplishments during this enriching experience.

08



Airport Transfers & Departures

Bid farewell to Belize as you embark on your departure day, starting with a land transfer to the airport for your onward journey.



HOUSING

Participants will stay at various locally owned lodging sites throughout your program. The accommodations are double occupancy and include:

- SeaSpray: Placencia, Belize
- https://www.seasprayhotel.com/
- Jaguar Creek, Hummingbird Highway
- https://jaguarcreek.org/

*Note: Accommodations are subject to be updated

Our team is selective with the housing process to ensure that participants have a safe environment with a touch of local culture, and natural landscape to be their home away from home. Rooming can vary from double rooms to larger shared rooms (hostel-style). Single-room accommodations may be available for an additional cost. Please inquire with our team at the time of enrollment if you'd like to book a single room.

MEALS

All breakfasts, lunches, and dinners with local cuisine are included in the program (there may be exceptions on arrival or departure days). We accommodate vegan, vegetarian, and gluten-free diets and cater our meals to participants' dietary and health needs. We always recommend drinking bottled water. Participants will also have opportunities to try traditional Belizean and Mayan foods and to purchase snacks at local markets in the area. Please disclose any dietary restrictions or allergies to our team in your program registration forms so we can best support you.



PACKING LIST: BELIZE

WEATHER IN BELIZE

January temperatures range from a high of $79^{\circ}F$ (26°C) to a low of $73^{\circ}F$ (23°C) March has average highs of $87^{\circ}F$ (30°C) and lows of $73^{\circ}F$ (23°C) May is warmer with average highs of $90^{\circ}F$ (32°C) and lows of $78^{\circ}F$ (26°C)

GENERAL ADVICE

- Bring fast-drying clothes that you don't mind getting dirty.
- "Less is more" when it comes to packing.
- Bring a dry bag for excursion/boat days to ensure your items stay dry.
- · Covering up is key to prevent sunburn. Rashguards, leggings, or wetsuits are recommended for seaweed farming.
- Opt for reef-friendly sunscreens: Mineral-based sunscreens that use ingredients like zinc oxide and titanium oxide are not associated with coral bleaching and therefore are less impactful to reefs.

PERSONAL GEAR

- Water bottle
- · Hat, Sunglasses
- · Fast-drying towel

CLOTHING

- · Lightweight pants and shorts
- Lightweight long-sleeve shirts and/or SPF protection fabric shirts for sun coverage
- · T-shirts, tank-tops
- · Leggings or long wetsuit for sun protection in the ocean
- · Bathing suit / Swimwear
- · Pajamas, underwear
- Waterproof rainshell jacket
- Casual attire for classes, tours, and capstone presentations

FOOTWEAR

- · Water shoes
- Sandals
- Comfortable walking shoes or light hiking boots for a jungle walk (Waterproof and ankle support recommended)

PERSONAL CARE/HYGIENE

- Personal toiletries
- · Medications to keep on carry-on baggage
- · Bug spray; Anti-itch cream
- Motion/sea sickness patch or tablets
- Sunscreen
- Menstrual hygiene products
- · Biodegradable soap for bathing and washing clothes

MISCELLANEOUS

- · Laptop/tablet for capstone projects
- Camera
- Notebook and pen
- · Spare charged battery pack and/or batteries
- · Snacks, bars (optional)
- Electricity adapter if needed: 110 volt, 60 cycle electricity, same as the US (Typically 2-pronged flat type).

LEISURE

Book or kindle (optional)

TRAVEL DOCUMENTS

- · Passport and required visas if necessary
- Photocopies of important documents (passport, insurance, vaccination records, etc.) to be kept with carry-on baggage
- Cash (at least \$150 in small bills)
- Copies of personal documents (passport, credit cards, vaccination records)





NEW ORLEANS

LOUISIANA, UNITED STATES OF AMERICA URBAN RESILIENCE, RECOVERY, & ADAPTATION

Immerse yourself in the heart of New Orleans with The GREEN Program's unparalleled focus on urban resilience, recovery, and adaptation, set against the backdrop of the city's unique position below sea level. Participants will explore New Orleans as a dynamic, living laboratory of urban challenges, resilience strategies, and successful local initiatives in sustainable development and community resilience, all shaped by the city's geographical position and its history with hurricanes and natural disasters.

Participants will engage in expert-led workshops, site visits, and hands-on projects, gaining invaluable insights into sustainable development, disaster recovery, justice, and community resilience from industry professionals and community leaders. From a New Orleans food tour to a jazz tour and exploration of local history and ecology, the program offers a holistic experience that goes beyond the classroom.

As a part of this intensive 5-day journey in "The Big Easy," participants will also have the opportunity to take part in an innovative Capstone Project and sustainability service learning project to support resilience and adaptation efforts while gaining practical skills and experience in urban planning, environmental sustainability, and disaster risk reduction.

Upon completion of the program, participants will receive TGP's Certificate of Completion.

NEW ORLEANS | SYLLABUS



COURSE: URBAN RESILIENCE, RECOVERY, & ADAPTATION

PREREQUISITE: NONE, OPEN TO ALL MAJORS

CREDIT: CREDIT-ELIGIBLE. Speak with your advisor about the possibilities of gaining academic credit for this

program; TGP Certificate of Completion

LANGUAGE: ENGLISH

COURSE DESCRIPTION

The GREEN Program's "Urban Resilience, Recovery, & Adaptation" program is a 25+ hour, intensive program that takes a local, place-based approach and incorporates experiential learning, service-learning, professional development, and intercultural learning in New Orleans, Louisiana. On this 5-day travel program, participants will learn from a speaker series of industry experts leading local, community-based initiatives around the intersections of SDG #9 Industry, Innovation, and Infrastructure, SDG #11 Sustainable Cities and Communities, and SDG #13 Climate Action. The speakers will share local approaches to disaster recovery and adaptation, environmental stewardship, justice, and community resilience.

In conjunction with the speaker series, students will work alongside various local community organizations and participate in the environmental conservation and stewardship efforts of New Orleans. Throughout the program, students will work in interdisciplinary groups to complete a Capstone Project that provides an innovative solution to a real-world sustainability challenge focusing on SDGs #9, #11, and #13. Students must use a systems-thinking approach and consider the business, environmental, and social impact aspects of their ideas and detail these aspects in their presentations.

Upon completing the program, participants will be awarded TGP's Certificate of Completion, a valuable credential to showcase their dedication to sustainability and enhance their CV/résumé and LinkedIn profile.

OBJECTIVE

The course aims to immerse participants in the study of urban resilience, recovery, and adaptation within the unique context of New Orleans and provide hands-on experience and insights into sustainable development, disaster recovery, and community resilience through workshops, site visits, capstone projects, and a practical service-learning project.

LOCATION

With a population of approximately 390,000, New Orleans is a vibrant city located in southeastern Louisiana, USA. Known for its rich tapestry of cultures encompassing French, Spanish, and Creole influence, the city is situated along the Mississippi River and characterized by its historic architecture and diverse neighborhoods. Visitors can immerse themselves in the city's unique history by exploring the French Quarter, with its charming cobblestone streets and iconic buildings. Indulge in the city's renowned culinary delights, from Creole and Cajun cuisine to beignets and po'boys. Additionally, New Orleans is well-known for its spirited live jazz performances that can be found in various venues throughout the city. With its warm hospitality and diverse attractions, New Orleans is a destination that promises to captivate and inspire travelers from all walks of life.

The program will take place in various locations in New Orleans, Louisiana, United States of America.

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CULTURE

New Orleans is a culturally rich city that reflects a blend of African-American, French, and Spanish influences. The city's history includes periods of French and Spanish rule before being acquired by the United States in the Louisiana Purchase of 1803. The forced settlement of African and West Indian slaves introduced diverse cultures to the Creole residents. The 18th century saw the definition of Creoles as French or Spanish descendants born in the colony, while the Cajuns of South Louisiana were originally French colonists exiled from Nova Scotia. Today, New Orleans exudes a unique rhythm, style, and attitude, celebrated through festivals, lively nightlife, and a rich cultural heritage. The city's vibrant atmosphere is shaped by its history, culture, and the traditions of various ethnic groups, creating an experience driven by independent thinkers, creative spirits, and non-conformists. Learn more about New Orleans's culture <u>HERE</u>.

TEACHING METHODS

Students will explore the numerous topics and site visits associated with urban resilience, recovery, and adaptation by completing the program's service-learning, site visits, and capstone project. The knowledge gained from the speakers and site visits is intended to provide context and insight when conducting the service-learning project, assisting local community organizations, and the Capstone Project.

Total hours: 25 hours

EDUCATIONAL MATERIALS & SPEAKER SERIES

Students are provided with pre-program education online content on The GREEN Program's portal. These resources provide context to sustainable development efforts in New Orleans before travel, and include the following content:

- C40 Cities Initiative: New Orleans
- SDG Academy (videos)
 - Introduction to the SDGs and Cities
 - Urban Resilience
 - How Do Cities Accumulate Risk Exposure?
 - Race and Financial Inequality
 - Action in the making: policies for disaster and climate resilience
- Sustainable travel guidelines
- Resources for underrepresented travelers
- Capstone Project resources, and more

Speaker presentations and site visits will serve as a platform for place-based, experiential learning. Through this sort of direct engagement with industry experts, students will gain a comprehensive understanding of basic concepts which they will then practice and test in service learning and experiential activities, as well as the final Capstone. Speaker presentations include the following and are subject to updates:

- Hurricane Katrina Tour
- Service-Learning Preparation & Training Workshops
- Coastal Restoration Efforts
- History of the Land & Future Land Use
- Cultural Tours: Art, Music, Cuisine, & Culture in New Orleans
- Capstone Project: Sustainability Innovation Workshops



SERVICE-LEARNING & EXPERIENTIAL EDUCATION

Students are provided with service-learning and experiential education learning opportunities with a focus on community-led and place-based approaches. Below are examples of the hands-on learning opportunities that students will participate in. Please note that service-learning projects are subject to change for each program based on the needs of our community partners. Below are examples of potential projects:

1. Oyster Shell Recycling & Reef Restoration Program with the Coalition to Restore Coastal Louisiana (CRCL)

PROJECT OBJECTIVES: The Oyster Shell Recycling Program (OSRP) is a vital initiative established by the Coalition to Restore Coastal Louisiana (CRCL) in 2014, aimed at diverting oyster shells from landfills and mitigating coastal land loss. Through collaboration with local restaurants and dedicated volunteers, the program has successfully recycled over 13 million pounds of shell, contributing to the restoration of oyster reefs that protect Louisiana's eroding coastline. Participants will take part in a service-learning project with CRCL to support the following larger project objectives in mind:

PROJECT GOALS:

- Construct Reefs: Support the successful construction of one recycled oyster reef per year, utilizing collected shells to restore and protect at least 1,500 feet of eroding shoreline, thereby enhancing habitat for marine life and improving local fisheries.
- Monitor Reef Health: Learn about CRCL's comprehensive monitoring program for each constructed reef, assessing shoreline changes and biological development annually to ensure the effectiveness of the reefs in reducing erosion and supporting biodiversity.
- Civic Engagement: Participate in an educational workshop and outreach programs to increase awareness about the importance of oyster reefs and coastal restoration.
- Promote Sustainability & Environmental Stewardship: Advocate for sustainable practices, encouraging the adoption of environmentally friendly practices related to seafood consumption and waste management.
- Document and Share Impact: Supporting the compilation and dissemination of reports detailing the number of shells recycled, the shoreline protected, and the ecological benefits observed, using this data to enhance community support and attract potential funding sources.
- Strengthen Partnerships: Foster existing partnerships and develop new collaborations with environmental
 organizations, governmental agencies, and academic institutions to leverage resources and expertise for
 the program's success.

2. Marsh Grass Planting with Native Plants Program with the Coalition to Restore Coastal Louisiana (CRCL)

PROJECT OBJECTIVES: In collaboration with the Coalition to Restore Coastal Louisiana (CRCL) and local partners, including the Central Wetlands Reforestation Collective (CWRC), Common Ground Relief, and the Center for Sustainable Engagement and Development (CSED) of the Lower 9th Ward, participants will contribute to the restoration of the Central Wetlands Unit, which has suffered from historic logging and saltwater intrusion. Volunteers will plant native marsh vegetation in fresh to brackish areas, helping to stabilize soil, capture sediment, and minimize storm surge, ultimately contributing to healthier ecosystems and enhanced wildlife habitats in the region. Participants will take part in a service-learning project with CRCL to support the following larger project objectives in mind:

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PROJECT GOALS

- Enhance Ecological Restoration: Support the successful planting of at least 10,000 native marsh plants in the Central Wetlands Unit by the end of the planting season, contributing to improved soil stability, sediment capture, and overall ecosystem health.
- Foster Civic Engagement: Provide opportunities to deepen civic engagement, ensuring that participants gain hands-on experience in environmental restoration and stewardship.
- Environmental Education: Learn from educational workshops and training sessions, and understand the ecological significance of marsh vegetation and the restoration process.
- Build Community Partnerships: Strengthen collaboration with local partners, including CRCL, CWRC, Common Ground Relief, and CSED, by organizing joint events and initiatives that enhance community involvement and collective impact on coastal restoration efforts.
- Evaluate and Monitor Impact: Contribute to an on-going monitoring system to assess the survival rates and growth of planted marsh vegetation, taking part in data collection and analysis to evaluate the effectiveness of restoration efforts and inform future projects.

SKILLS GAINED FROM SERVICE-LEARNING PROJECTS:

- Team Collaboration and Communication: Strengthen teamwork and interpersonal communication skills by working alongside diverse groups of volunteers and local partners; foster a collaborative environment to achieve common goals.
- Environmental Awareness and Sustainability Practices: Gain knowledge in ecological restoration techniques and sustainable practices, and develop a deeper understanding of environmental issues relevant to various industries.
- Data Collection and Analysis: Develop competence in monitoring and evaluating the impact of restoration
 efforts through data collection and analysis, skills necessary for roles that require analytical thinking and
 problem-solving.
- Leadership and Community Engagement: Develop leadership abilities by taking initiative in organizing events and leading volunteer groups, while also enhancing skills in community outreach and engagement strategies, skills essential for roles in non-profit, social impact, and community-focused organizations.

By participating in these service-learning projects, participants will not only gain valuable real-world experience but also contribute to the growth and sustainability of local restoration efforts in Louisiana, ultimately helping them achieve their mission to unite people in action to achieve a thriving, sustainable Louisiana coast for all.

CAPSTONE PROJECT

Throughout the program, participants will work together to create innovative solutions towards real-world challenges in sustainable development with a focus on SDG #9 Industry, Innovation, and Infrastructure, SDG #11 Sustainable Cities and Communities, and SDG #13 Climate Action. The Capstone Project addresses current challenges within the UN's 17 Sustainable Development Goals and is focused on eradicating poverty, inequality, and environmental degradation.

Working in interdisciplinary cohorts, students will create innovative solutions that integrate political, business, social, and environmental approaches with participants from various disciplines and experiences. Participants will use the Business Model Canvas and Golden Circle Frameworks to create their Capstone Projects. See our pedagogy and learning outcomes <a href="https://examples.org/new/restate-new/rest

NEW ORLEANS | SYLLABUS



LEARNING OUTCOMES

- Demonstrate a comprehensive understanding of the challenges and opportunities associated with urban resilience and sustainability, within the context of New Orleans.
- Gain an understanding of methodologies and approaches spanning multiple disciplines to tackle resilience, social justice, and future land use issues.
- Build critical thinking and problem-solving skills through hands-on projects and workshops focused on disaster recovery, sustainability, and community resilience, while understanding the interactions between urban systems and environmental justice.
- Propose innovative solutions for real-world sustainability challenges through The GREEN Program's Capstone Project, integrating cross-disciplinary knowledge, group collaboration, and experiential learning.
- Gain an understanding of the rich cultural diversity and artistic expressions of New Orleans while understanding how these elements contribute to community resilience and environmental sustainability.
- Develop a critical national/global perspective essential for today's workforce by collaborating with a diverse cohort to discuss sustainable development and climate resilience.
- Observe and participate in community-led service learning, contributing to restoration and resilience
 efforts. Learn about the local ecology and support the conservation and stewardship of Louisiana's
 coasts.
- Enhance your understanding of the key vocabulary and concepts related to urban and community resilience while exploring actionable solutions for sustainable planet stewardship.
- Develop leadership, communication, and teamwork skills: Collaborate and excel within a network of likeminded participants who aspire to work and innovate in the field of sustainability.
- Earn TGP's digital Smart Certificate Upon Completion. Powered with machine learning and job analytics, align the new skills gained with the jobs hiring today.
- Join a global network of more than 4,000 young professionals and TGP Alumni. Connect with sustainability jobs and internship opportunities, mentorship, and professional development resources with access to TGP's Alumni Network upon program completion.

SCHEDULE

Students are expected to complete the pre-program education materials and mandatory orientation before the start of their program. The program dates are selected by the student and approved by The GREEN Program. Program dates are listed on our <u>website</u>.

ASSESSMENT

Program performance will be assessed based on participation and completion of the program. To complete the program, students must actively participate in the service-learning, discussions, experiential education activities and tours, cultural tours, and complete a Capstone Project presentation.

CERTIFICATE AND CREDITS

Upon completion of the program, students will receive a digital Certificate of Completion from The GREEN Program. Grades will not be assigned for this program; however, students will be assessed on a "Complete" or "Incomplete" basis. Please allow up to two weeks for the certificates to be processed. Students will receive the digital certificates via email with instructions on how to add the certificate to their resume and LinkedIn. Contact info@thegreenprogram.com or your TGP representative for additional information or support.

*Note: While this program is not credit-bearing, it may be eligible for credit at your home university. Speak 82 with your advisor about the possibilities of gaining academic credit for this program.

PROGRAM ITINERARY

YOUR SUSTAINABILITY ADVENTURE AWAITS

*Note: This is an itinerary overview. It is subject to change contingent on weather conditions and facility schedules. TGP guides will always prepare the group with an updated itinerary for the following day. Programs may vary slightly based on the program's season.



Welcome to **New Orleans!** Kick off your New Orleans adventure with convenient airport pickups and a warm welcome from our team. Enjoy a day filled with discovery, familiarizing yourself with New Orleans and getting to know the cohort. Enjoy a lunch and the launch of a collaborative Capstone Project. Wrap up your evening with an enchanting Nola Jazz Tour, immersing yourself in the city's vibrant music scene.



Reflecting on and Community Resilience

Start your day with breakfast on your own before embarking on a tour and lecture focusing on the history and impacts of Hurricane Katrina. After a reflective morning, enjoy a culinary food tour Hurricane Katrina experience and taste the best of NOLA! In the afternoon, engage in a hands-on Capstone Project Workshop, where you'll collaborate with peers to explore solutions and commemorate the resilience of the community. Conclude your day with dinner on your own, allowing you to reflect on the day's powerful lessons and experiences.



History of the Land, Capstones, & Scandals & Legends

Begin your day with breakfast on your own before diving into the History of The Land Tour and Workshop, collaborating with a local non-profit farming initiative to learn about Indigenous history, justice, and a workshop around future land use. After lunch, engage in a Capstone Project Workshop, followed by a group discussion and debrief to reflect on your insights. Enjoy dinner on your own to explore the local culinary scene, then cap off the evening with the intriguing "Scandals & Legends" tour, uncovering the mysteries of Voodoo, pirates, and the captivating sights of New Orleans.



Costal Restoration & Capstone **Presentations**

Start your day with breakfast on your own before participating in a meaningful Service Learning Project focused on local environmental resilience and adaptation efforts. After lunch, Service-Learning, collaborate in a Capstone Project Workshop, where you'll refine your ideas and strategies. Present your Capstone Projects to the group, showcasing your hard work and innovative solutions. Conclude the day with a final group dinner, celebrating your accomplishments and the connections made throughout this impactful experience.



Airport Transfers & Departure

Enjoy breakfast on your own before taking some free time to relax or explore your surroundings one last time. Afterward, prepare for your journey home with airport transfers.



With various accommodation options available in the downtown area, participants have the freedom to choose their preferred lodging. TGP recommends Hostelling International (HI) New Orleans as this offers a central location and affordable accommodation options. The program will set HI as the meeting and drop-off location each day of the program. HI USA is a non-profit organization founded on the belief that travel has the power to change lives.

Hosteling International New Orleans

Address: 1028 Canal St, New Orleans, LA 70112

Phone: (504) 603-3850

Website: https://www.hiusa.org/find-hostels/louisiana/new-orleans-1028-canal-street

Shared Rooms start at around \$85/night Private Rooms start at around \$273/night

*Includes free breakfast, wifi, and more! Prices are subject to change, please check the <u>HI New Orleans</u> <u>Website</u> for updated pricing. HI USA Members get 15% Off. Learn more:

https://www.hiusa.org/membership

Note: Accommodations are not included and is the participant's responsibility to book for the program.

MEALS

The program fee includes all lunches and the final dinner. Participants are responsible for their own breakfasts and most dinners, allowing them to explore the vibrant and diverse food scene of New Orleans independently.

Tip: Your accommodations may include breakfast—be sure to inquire with your host!



PACKING LIST: NEW ORLEANS

WEATHER IN NEW ORLEANS

January temperatures range from a high of 64°F (18°C) to a low of 45°F (7°C) March has average highs of 73°F (23°C) and lows of 54°F (12°C) May is warmer with average highs of 85°F (29°C) and lows of 68°F (20°C)

GENERAL ADVICE

- · Bring fast-drying clothes that you don't mind getting dirty for the service-learning activity
- · "Less is more" when it comes to packing
- Bring a day bag/pack for your daily activities and essentials
- · Wear comfortable walking shoes/sneakers
- · Layers are key! Bring a mix of t-shirts, long-sleeve shirts, and a light jacket or sweater
- Some restaurants have a dress code. Pack at least one smart-casual outfit to be safe.

PERSONAL GEAR

- · Reusable water bottle
- · Hat, Sunglasses
- Fast-drying towel

CLOTHING

- · Pants: Comfortable, versatile, casual
- · Lightweight t-shirts for warmer days
- · Long-sleeve Shirts for cooler mornings/evenings
- · Blouse/Button-down shirt for some restaurants
- · Pajamas, underwear, socks
- · Sweater/Lightweight pullover
- · Waterproof rain shell jacket and/or travel umbrella
- Casual, comfortable attire for tours and capstone presentations

FOOTWEAR

- Water shoes for service learning
- Comfortable walking shoes or light hiking boots for city walking tours

PERSONAL CARE/HYGIENE

- Personal toiletries (i.e., toothbrush, toothpaste, floss, etc)
- Shampoo, Body Soap, and Conditioner (travel-sized bottles or solid bars)
- Medications to keep on carry-on baggage
- Bug spray; Anti-itch cream
- Motion/sea sickness patch or tablets
- Sunscreen
- Menstrual hygiene products
- · Earplugs if you're sharing a room (and a light sleeper)
- · Biodegradable soap for bathing and washing clothes

MISCELLANEOUS

- · Laptop/tablet for capstone projects
- · Camera
- Notebook and pen
- Spare charged battery pack and/or batteries
- · Snacks, bars (optional)
- · Electricity adapter if needed: 120 Volt

LEISURE

· Book or kindle (optional)

TRAVEL DOCUMENTS

- · License or Passport and required visas if necessary
- Photocopies of important documents (license, passport, insurance, vaccination records, etc.) to be kept with carry-on baggage
- Cash (at least \$150 in small bills); Most businesses accept credit/debit cards
- Copies of personal documents (passport, credit cards, vaccination records, etc.)



DEAR FUTURE GREENIES,

BY PABLO SALAZAR ARMELLA DUKE UNIVERSITY

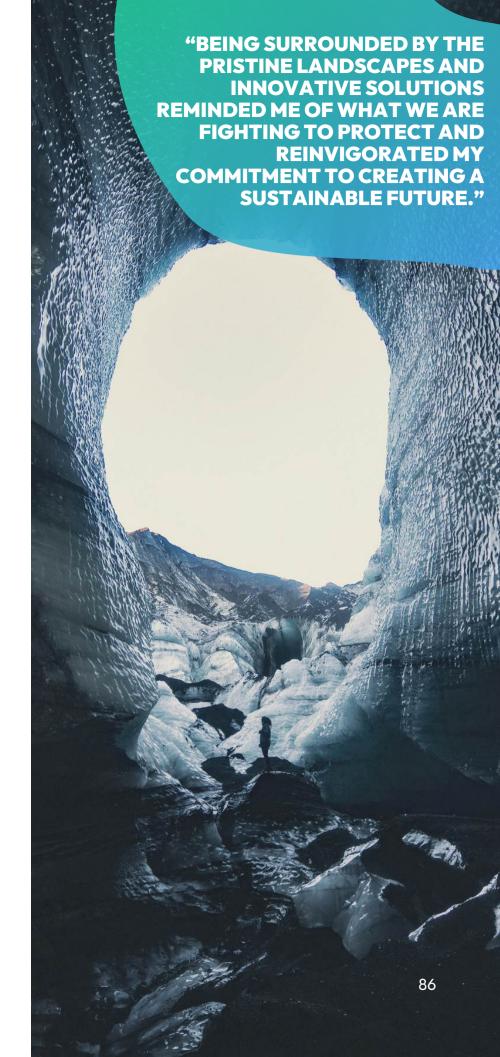
The GREEN Program (TGP) experience has been nothing short of transformative—a journey that seamlessly blended the awe-inspiring beauty of the country's landscapes with profound learning opportunities about sustainability, energy systems, and environmental stewardship. Immersing myself in the country's stunning scenery was unforgettable, but adding layers of education and cultural insight made it truly unique.

As someone with experience in the energy sector and nearing the completion of my master's program, I felt prepared to dive into discussions about energy systems. Yet, the opportunity to visit geothermal and hydro plants and witness their operations firsthand was invaluable—turning abstract concepts into tangible realities. This immersive learning deepened my understanding and appreciation of sustainable innovations.

What made the journey even more special was sharing it with a passionate and engaged group of peers. The enthusiasm of the particiapnts dedicated to positive environmental and social impact was energizing. Learning from their diverse backgrounds, experiences, and perspectives enriched every moment of the trip.

In today's fast-paced and often disheartening world, it's easy to feel overwhelmed by the challenges we face—climate change, pollution, biodiversity loss. However, this experience served as a powerful mental reset. Being surrounded by the pristine landscapes and innovative solutions reminded me of what we are fighting to protect and reinvigorated my commitment to creating a sustainable future. I am incredibly grateful to The GREEN Program team and their partners for crafting such a thoughtful and impactful experience.

I leave the program with a renewed sense of purpose and optimism, inspired to continue working towards a brighter, more sustainable world. My time here has solidified my belief that collective action, innovation, and a deep connection to nature are the keys to driving positive change.





INDONESIA (HYBRID)

CLIMATE FINANCE & INVESTING FOR A SUSTAINABLE ENVIRONMENT

According to the World Bank, Indonesia is the world's fourth most populous nation and 10th largest economy in terms of purchasing power parity. Currently, as one of the world's largest producers of nickel, tin, and bauxite, Indonesia is predicted to be the 4th largest economy in the world by 2045.

As the country prepares for substantial growth, the importance of sustainable economic practices and climate finance is increasingly critical for a resilient and equitable future.

As the world's largest archipelago with over 17,000 islands, Indonesia faces unique vulnerabilities and environmental challenges and offers opportunities for sustainable development. Its focus on climate mitigation strategies and innovative finance solutions provides valuable insights into resource mobilization for effective climate action in emerging markets in the Global South.

This hybrid program offers a unique learning experience, allowing participants to engage in online classes and then participate in an immersive learning experience with local communities and industry leaders while exploring climate finance solutions in Indonesia.

In collaboration with local experts.
Certified Public Accountants (CPAs), and various climate finance organizations, participants will examine practical mechanisms and underscore the significance of private climate finance and responsible investing methods in climate mitigation and driving a sustainable future.

With its vibrant ecosystems, rich cultural heritage, and commitment to sustainability, Indonesia offers an unparalleled backdrop for those eager to contribute to the global movement towards a green economy.



Investing For a Sustainable Environment

Program Structure

- 1. Online (Remote): A 6-week course requiring a time commitment of 30-60 minutes for self-study plus 90-minute live meetings with the cohort each week.
- 2.In-Person Intensive (Travel): A 10-day immersive experience in Indonesia.

Part 1: Online Course Description:

This course covers a broad range of environmental issues and teaches participants how to support innovation, sustainability, and positive outcomes within their portfolios. Upon completion, you will acquire criteria and tools to shift your assets to mitigate climate change and protect the environment for yourself, your family, and future generations.

"Investing for a Sustainable Environment" is a virtual (remote) 3-part series designed by two Chartered Financial Analysts (CFAs) dedicated to redirecting financial flows in support of environmental health and sustainability. Their extensive knowledge and commitment will be delivered through a mix of self-study and both large and small group meetings.

"Investing For a Sustainable Environment": Meet the Online Course Creators from Invest For Better

Invest for Better is a 501(c)(3) nonprofit that gives people the confidence, skills, and encouragement they need to take control of their assets and use them to influence things they care about.

Invest for Better (IFB) members are part of a trusted investing community, and learn a practical values-aligned investing curriculum that fosters confidence and growth. Together, we are finding joy and getting great returns while investing in a world that prioritizes sustainability.





JANINE FIRPO, CO-FOUNDER & PRESIDENT, INVEST FOR BETTER

Janine Firpo is a values-aligned investor, angel investor, and social innovator. In 2017 she left her 35-year career in technology and international development to focus on how women can create a more just and equitable society through their financial investments. In 2018 Janine launched a club to help women invest all their assets – from cash to public equities to private investments – in ways that align with their values. She is the author of "Activate Your Money".



WILLIAM TICKLE, CFA, PARTNER, SENIOR INVESTMENT ADVISOR, AND THE DIRECTOR OF IMPACT INVESTING AT BALLENTINE PARTNERS

William Tickle, CFA is a Partner, Senior Investment Advisor, and the Director of Impact Investing at Ballentine Partners. For 15 years he has been responsible for market research, due diligence, and oversight of the firm's impact investment program across asset classes and in public and private markets. Will is passionate about making investments about more than just a return.

He graduated from Brandeis University with a Bachelor of Arts in Economics with minors in International Business and Spanish. While in college, Will spent his summers working at the firm and upon graduation joined the company full time in 2003.



JULIE PULDA, CFA, IMPACT INVESTMENT MANAGER AT BALLENTINE PARTNERS

Julie Pulda, CFA is an Impact Investment Manager at Ballentine Partners, where she has an instrumental role in identifying impact opportunities by conducting market research and providing recommendations to the investment team. Julie received her Master of Arts in Law and Diplomacy at the Fletcher School of International Affairs at Tufts University. While there, she interned for Trillium Asset Management. Her master's thesis, "The Case for SDG Investing: A Portfolio Building Exercise" focused on integrating the UN Sustainable Development Goals into financial strategies. Julie finds great joy in helping families align their social values with impact-focused investment opportunities.

INDONESIA | SYLLABUS



COURSE: CLIMATE FINANCE & INVESTING FOR A SUSTAINABLE ENVIRONMENT

PREREQUISITES: NONE, OPEN TO ALL MAJORS

TIME REQUIREMENTS:

• ONLINE (REMOTE): ABOUT 2 HOURS PER WEEK FOR 6 WEEKS

• IN-PERSON INTENSIVE (TRAVEL): 10 DAYS IN INDONESIA

CREDENTIALS: CREDIT-ELIGIBLE; CERTIFICATE OF COMPLETION

LANGUAGE: ENGLISH

COURSE DESCRIPTION

The GREEN Program's Climate Finance Program in Indonesia offers a unique learning experience focused on understanding and mobilizing private climate finance in the Global South, particularly within the context of Indonesia's climate challenges and sustainable development goals. The program, conducted in collaboration with the Climate Finance Fund, combines a 6-week online course with a 10-day immersive experience in Jakarta and Bandung, Indonesia.

COURSE OBJECTIVES

- Equip participants with the knowledge and tools to advocate for and mobilize private climate finance initiatives in the Global South.
- Deepen understanding of the challenges and solutions in regions affected by climate change.
- Identify retail/private investing opportunities for climate mitigation in the Global South.
- Foster a community of engaged advocates and drive further climate finance action.

COURSE OUTCOMES

By the end of the online course, participants will have:

- Discussed investment opportunities that support and strengthen environmental sustainability across all asset classes
- · Worked with the resources you need to consider shifting your cash so you can bank for good
- Learned how to research broad market stock and bond funds that are fossil-free or that seek positive environmental impact in other ways
- Discovered investment opportunities in the private markets and alternative investment spaces that can further the positive environmental impact you make with your money
- Made decisions about the next steps you want to take in your environmental investment journey and the
 assets you want to use in support of those goals

By the end of the program, participants will:

- Understand private climate finance and advocate for increased climate finance in the Global South, while exploring retail investment opportunities that prioritize climate mitigation and sustainability.
- Engage in impactful community building, leveraging collective voices to drive climate finance initiatives and foster ongoing collaboration among participants.
- Acquire practical knowledge and skills in climate finance and local stakeholder engagement, enhancing the ability to contribute to a sustainable future.
- Research and identify investment opportunities across asset classes, including fossil-free stock and bond funds, as well as private market and alternative investments that support environmental sustainability.
- Participate in hands-on experiences through service learning and citizen science initiatives, developing essential skills such as problem-solving, intercultural collaboration, and leadership while focusing on Sustainable Development Goals (SDGs).

INDONESIA I SYLLABUS



COURSE CONTENT

Part 1: Investing For a Sustainable Environment consists of a combination of reading, joint exercises/research, and discussions. In the first session, you will explore the role banks play in the financial crisis and discover financial institutions that use their assets to mitigate climate change. Then in the second session, you will be shown how to find, analyze, and choose stock and bond funds that support positive climate outcomes. Finally, in the third session, you will be introduced to investment options that span asset classes as they address a broader array of environmental issues, such as deforestation, plastics, and other forms of pollution and toxicity.

- 1. Module #1: First Steps: Your Cash: In this session, you will meet other participants and learn about any environmental investing they are already doing. You will discuss your thoughts and concerns about the environment, as well as your goals for the course. Then you will delve into the role banks are playing in the climate crisis, discover more environmentally-friendly financial institutions, and leave with the knowledge and resources you need to shift your cash so you can bank for good.
- 2. Module #2: Core Moves: Broad Market Stocks and Bonds: In the second month, you will discover where you fit along the Spectrum of Capital, a framework that describes the risk/return/impact choices you will make as you decide where to invest your money. You will also learn how to find and analyze broad market stock and bond funds that meet your investment criteria. Research will be shared with other members of the course, enabling you to learn more with less effort.
- 3. Module #3: Branching Out: Targeted Investments: In the final module, you will learn that our money can be invested in targeted ways to support innovative, new business models, and solutions to pollution and other environmental challenges. Examples include cradle-to-grave business models, reforestation, and clean water infrastructure. You will also make decisions and commitments about the next steps you want to take with your money. And you will discover some simple actions you can incorporate into your daily life to extend the positive impact you can have on the environment even further.

Other educational content available in the Student Portal may include:

- Video: Climate Financing Jeffery Sachs (26 min)
- Video: Financing Models for the Sustainable Development Goals (65 min)
- Video: Case Study: Pioneering Green Sukuk: The Technical Assistance of UNDP in Indonesia (11 min)
- Capstone Project resources, and more.

Part 2: In-Person Intensive Component in Indonesia (10 Days):

- Speaker Series (15 hours): Features presentations from industry experts and leaders in local climate finance initiatives, covering topics such as:
 - Blended finance models for cooperatives in Indonesia
 - Sustainable energy solutions and Indonesia's energy transition
 - Grassroots waste-to-energy biogas projects
 - o Carbon market and retail solutions
 - No-down-payment solar rental for commercial and industrial buildings
 - Agroforestry as a Climate Finance Solution
- Service-Learning Project (3 hours): Engages participants in mangrove planting efforts, contributing to climate mitigation, coastal protection, and community empowerment.
- Intercultural Learning and Discussions (5 hours): Immerses participants in Indonesian culture, fostering understanding and appreciation of local customs and traditions.
- Capstone Project (15+ hours): Participants work in interdisciplinary groups to develop innovative solutions for real-world sustainability challenges.
 - Projects focus on UN Sustainable Development Goals #9 (Industry, Innovation, and Infrastructure),
 #13 (Climate Action), and #17 (Partnerships for the Goals).
 - Utilizing the business model canvas and golden circle frameworks, projects incorporate political, business, social, and environmental perspectives.

INDONESIA I SYLLABUS



CAPSTONE PROJECT

Throughout the program, participants will work together to create innovative solutions towards real-world challenges in sustainable development with a focus on SDGs #9 Industry, Innovation, and Infrastructure, #13 Climate Action, and #17 Partnerships for the Goals. The Capstone Project addresses current challenges within the UN's 17 Sustainable Development Goals and is focused on climate finance.

Created in interdisciplinary cohorts, students will create innovative solutions that integrate political, business, social, and environmental lenses with participants from various disciplines and experiences. Students will use the business model canvas and golden circle frameworks to create their capstone projects. See our pedagogy and learning outcomes here. See examples of past capstone projects here.

SCHEDULE & HOURS

Students are expected to complete the online course and pre-program education materials before the start of their travel segment.

- Online Time Commitment: ~2 hours every other week for a total of 6 weeks.
- Meeting Frequency:
 - Live Classes: Engage in 90-minute sessions held every other week.
 - Self-Study: Allocate an additional 30 to 60 minutes for self-study during the alternate weeks.

Total hours: 54 hours

- 11 hours of virtual learning (pre-travel)
- 15 hours of the speaker series
- 3 hours of service-learning
- 5 hours of intercultural learning
- 5 hours of discussions
- 15+ hours dedicated to collaborative capstone project development

The specific program and class dates are listed on our website.

ASSESSMENT

Program performance will be assessed based on participation and completion of the program. To complete the program, students must actively participate in the online course, speaker series, service-learning, and immersive learning activities (i.e. site visits), and complete a Capstone Project presentation.

CERTIFICATE AND CREDITS

Upon completion, students will receive a digital Certificate of Completion from The GREEN Program, assessed on a "Complete" or "Incomplete" basis. Certificates will be processed within two weeks and sent via email, including instructions for adding them to resumes and LinkedIn, along with access to job insights. For further support, contact info@thegreenprogram.com or your TGP representative.

**Note: This program is not credit-bearing, but it may be eligible for credit at your home institution. Please consult your advisor for details.

TRAVEL ITINERARY

IN-PERSON INTENSIVE IN INDONESIA



Welcome to Indonesia!

*Note: This is an itinerary overview. It is subject to change contingent on weather conditions and facility schedules. TGP guides will always prepare the group with an updated itinerary for the following day. Programs may vary slightly based on the program's season.

Upon arrival, participants will be greeted with an airport pickup and attend a welcome meeting followed by check-in. The day will conclude with the launch of the capstone project and a welcome dinner to foster networking and team building. Rest well for the exciting adventures ahead!



Exploring Energy Transitions & Jakarta

The day begins with breakfast, followed by insightful talks on an Intro to Climate Finance in Indonesia and Tripatra Energy's innovative solutions for a sustainable energy transition. After lunch and a Jakarta walking tour, participants will engage in a Capstone Project Workshop, concluding with dinner.



Market-Based Solutions & **Indonesian Food** Tour

Start the day with breakfast before attending a session on Market-Based Solutions for Climate Finance by the Rocky Mountain Institute - Indonesia. After lunch and a Jakarta Food Tour, participants will visit Xurya to explore their No-Down-Payment Solar initiative, followed by a Capstone Project Workshop and dinner to wrap up the day.



Empowering Communities Through **Grassroots Cooperatives** The day begins with breakfast before departing for Bandung, where participants will attend a talk on Empowering Communities through cooperative initiatives in climate finance. After lunch, there will be a site visit focusing on transforming waste into energy through grassroots initiatives for sustainable energy access, followed by a Capstone Development Workshop and dinner to conclude the day.



Community-Led Climate Finance & **AgroForestry**

Start the day with breakfast before heading to a site visit featuring a speaker on Reforestation and Community-Led Climate Finance, highlighting Eko Purnomowidi's agroforestry journey at the Klasik Beans & Coffee Farm. After lunch, participants will engage in a Capstone Development Workshop, followed by dinner to conclude the day's activities.

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Volcano Trek to Domas Caldera & **Hot Springs**

Begin the day with breakfast before embarking on a volcano trek to the Domas Caldera Volcano Crater at Tangkuban Perahu, which takes approximately 30-45 minutes. After lunch, participants will enjoy a visit to the hot springs, followed by a Capstone Development Workshop and dinner to wrap up the day's activities.



Renewable Energy Site Visit & Tea Plantation Tour

Start the day with breakfast before heading to a site visit at a geothermal power plant to learn about sustainable energy production. After lunch, participants will enjoy a tea plantation tour, exploring the cultivation and processing of tea. The day will continue with a Capstone Project Workshop, followed by dinner to conclude the day's activities.



Capstone Project Workshop & **Bandung City Tour**

Begin the day with breakfast, followed by a Capstone Project Workshop to refine your projects. After the workshop, participants will embark on a Bandung City Tour, exploring the vibrant culture and attractions of the city. Lunch will be enjoyed during the tour. Afterward, there will be a transfer back to Jakarta. The day will conclude with dinner and some free time to relax and explore the area.



Service Learning, Capstone Presentations, & Joining the Alumni Network

Participants will engage in a Community-Led Service Learning project focused on mangrove conservation at the Muara Angke Project, followed by lunch and a Final Capstone Presentation Workshop leading into the Capstone Project Presentations. The day will conclude with a Final Dinner & Group Reflections, and on 93 the next day, breakfast will be served before airport departures. Join TGP's Alumni Network upon program completion!

Developing countries need trillions of dollars annually to combat climate change and address its impacts.

The new finance goal will channel greater funds toward urgently needed climate action in developing countries. It will support the implementation of low-carbon, climate-resilient solutions in energy, transport, agriculture, and other vital systems.

-World Resources Institute



HOUSING & MEALS

Your accommodations in Jakarta and Bandung will be provided by local, independently-owned establishments, ensuring a unique and authentic experience. Each room will comfortably accommodate two guests, with the option to upgrade to a private single room if desired (upon availability).

The meals included in your package will be vegetarian and plant-based, designed to support climate-friendly practices. Throughout the program, you'll also have free time to explore and enjoy local dining options at your leisure.

We are committed to accommodating various dietary preferences, including vegan, vegetarian, and gluten-free diets. Our meals are tailored to meet the dietary and health needs of all participants. Additionally, you will have opportunities to purchase snacks at local markets in the area.

To ensure we can best support you, please disclose any dietary restrictions or allergies on your program registration forms. This will help us provide a safe and enjoyable dining experience for everyone.





PACKING LIST: INDONESIA

WEATHER

- Jakarta and Bandung in July typically experience warm and humid conditions.
- Average temperatures range from 24°C to 32°C (75°F to 90°F).
- Rain is common, so prepare for occasional downpours, especially in the afternoons.

GENERAL ADVICE

☐ Travel size- tissue/toilet paper ☐ Menstrual hygiene products

☐ Biodegradable soap for bathing and washing clothes

- Layering is key: Since the weather can vary, layering helps you adjust to different temperatures throughout the day.
- Cultural Sensitivity: Be mindful of local customs when choosing clothing, especially when visiting religious sites. Choose clothing that is modest and respectful, particularly for visits to religious sites, by avoiding revealing outfits and opting for long sleeves and long pants.

CARRY-ON BAG Passport Plane ticket and Entry Documentation Personal Emergency Contact Info Credit cards Cash (at least \$150 USD in small bills) Medications One change of clothes Reusable Water Bottle	TECH GEAR Laptop/Tablet and charger (needed for presentations) Smartphone and charger Power bank for on-the-go charging Recommended Travel Adapter: Indonesia uses Type C an Type F plugs with a standard voltage of 230V and a frequency of 50Hz. Bring a universal travel adapter to ensur compatibility with Indonesian outlets. A voltage converter of surge protector may be needed if your devices are not dual-voltage.
 □ Business Casual/Smart Attire for Lectures & Capstone Presentation (Breathable Fabric) □ Rain jacket with hood □ T-shirts and short-sleeved tops □ Lightweight long-sleeve shirts for sun protection □ Comfortable long pants with breathable fabric □ Shorts for leisure time □ Swimsuit if you plan to swim 	TRAVEL DOCUMENTS Passport and required visas if necessary Photocopies of important documents (passport, insurance vaccination records, etc.) to be kept with carry-on baggage Cash (at least \$150 in small bills) Copies of personal documents (passport, credit cards, vaccination records)
□ Pajamas □ Underwear and socks FOOTWEAR □ Close-toed Shoes: Comfortable walking shoes for hikes and site visits □ Dress shoes for business casual/"smart"attire □ Sandals or flip-flops for leisure time	MISC./OTHER ITEMS □ Earplugs, sleepmask □ Noteboo and pen □ Snacks
PERSONAL CARE/HYGIENE Personal toiletries (i.e. shampoo, toothbrush, hair products, deodorant, razor, lip balm, etc.) Medications to keep on carry-on baggage Personal First- Aid Supplies Hand Sanitizer Bug spray; Anti-itch cream Motion sickness patches or tablets Sunscreen	

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ONLINE

ETHICS OF SUSTAINABLE DEVELOPMENT

This online course, "Ethics of Sustainable Development," provides an introduction to the theories and practices of sustainable development with a special focus on developing countries. Development has been a contested concept and has had its share of controversies. The fact that poverty and inequality in many poor countries have not reduced significantly, in spite of significant international effort, has posed both conceptual and practical problems. The recent focus on sustainable development has been a result of alarming environmental and environmental degradation, but also because of a conscious effort in advocating for this issue throughout the world. With the intention of teaching this topic from different perspectives and angles, this course will also analyze the critiques of sustainable development. Students will gain knowledge by analyzing various case studies of ethical, human-sustainable development around the world.

At the end of the course, students will apply their newfound knowledge to an entrepreneurial solution at the TGP Capstone Workshop, an agile version of TGP's Capstone Project.

ONLINE | SYLLABUS



COURSE: ETHICS OF SUSTAINABLE DEVELOPMENT (ONLINE)

PREREQUISITE: NONE, OPEN TO ALL MAJORS

CREDIT: CREDIT-ELIGIBLE. Speak with your advisor about the possibilities of gaining academic credit for this

program.

LANGUAGE: ENGLISH

COURSE DESCRIPTION

This course is a general introduction to the theories and practices of sustainable development in the world, with a special focus on developing countries. It starts out with a brief review of the different concepts and meanings of development, with a special focus on sustainable development. Development has been a contested concept and has had its share of controversies. The fact that poverty and inequality in many poor countries have not reduced significantly, in spite of significant international effort, has posed both conceptual and practical problems. The recent focus on sustainable development has been a result of alarming environmental anddegradation, but also because of a conscious effort in advocating and campaigning for this issue throughout the world. But there are its critiques too. This course will attempt to cover this debate from different angles, and look at some good and not-so-good practices from around the world. It will end with a capstone project for the students that will help put their learnings into action.

Upon completion of the program, participants will receive TGP's Certificate of Completion. The digital certificate also provides job analytics and insights to connect the skills that students gain on this program with jobs available today.

OBJECTIVE

The objective of this course is to discover theories of development, study human development indicators and strategies, and engage in provoking conversations around the intersections of ethics and human development with a diverse cohort of sustainability leaders.

WHO THIS PROGRAM IS FOR

The GREEN Program's Online: Ethics of Sustainable Development program is the perfect fit for environmentally-conscious individuals with a deep interest in sustainability and a commitment to understanding the ethical aspects of creating a sustainable future. If you are passionate about exploring the complexities of sustainable development, including social, environmental, and economic considerations, this program offers an immersive and intellectually stimulating experience.

As a 100% virtual and online course, this program allows participants to join from anywhere with an internet connection, making it ideal for individuals seeking flexible learning opportunities without compromising on quality. Engage with a diverse cohort of like-minded sustainability leaders, fostering meaningful connections and broadening your global perspective.

Moreover, this program presents a more cost-effective option for students who wish to gain global sustainability education while joining The GREEN Program's global community. By laying a strong foundation in sustainable development, this online course seamlessly complements our travel programs, providing a comprehensive and well-rounded educational experience.

ONLINE | SYLLABUS



Whether you are a student, a young professional, or someone eager to delve into the ethics of sustainability, this online program offers valuable insights and knowledge to help shape a more ethical and sustainable future for our planet. Prepare to expand your horizons, connect with a global network of sustainability enthusiasts, and be inspired to positively impact the world, all from the comfort of your own environment.

PROGRAM HIGHLIGHTS

Engage in live, dynamic discussions with a diverse cohort of sustainability leaders, providing a unique opportunity to exchange ideas and perspectives from around the world. This intensive two-week online course offers the flexibility to participate from anywhere, making it accessible to passionate individuals from diverse backgrounds.

Program highlights include:

1. Explore the Cycles and Persistence of Poverty and Inequality

Delve into the cycles of poverty and inequality, gaining a comprehensive understanding of the root causes and persistent challenges faced by vulnerable communities worldwide. Through engaging discussions, case studies, and faculty-led sessions, participants will examine the systemic factors perpetuating these cycles and explore potential sustainable solutions for breaking the chains of poverty and fostering social equity. By addressing these critical issues head-on, participants will be empowered to play an active role in driving positive change and advocating for a more just and inclusive world.

2. Analyze the Critiques of Sustainable Development

Embark on a thought-provoking journey to critically assess critiques and controversies surrounding sustainable development initiatives. Through in-depth analysis and open dialogues, gain a well-rounded understanding of the complexities, enabling you to approach future initiatives with a more informed and discerning perspective. This critical analysis equips you to navigate challenges and opportunities, contributing to more effective and ethical solutions in sustainable development.

3. Explore Compelling Case Studies of Real-World Sustainable Development Efforts

Participants gain invaluable insights into innovative approaches prioritizing social, environmental, and economic sustainability through examining successful sustainable development projects. Analyzing key factors contributing to their success or failures, participants uncover valuable lessons and best practices for their future initiatives, fostering ethical decision–making and a renewed sense of purpose to create positive change. This exploration equips participants with a global perspective and an effective strategies toolbox for transformative impact in sustainable development.

4. Capstone Project: Empowering Ethical Sustainable Development

In this capstone project, you'll harness your passion and newfound knowledge and collaborate with fellow participants to craft innovative solutions for ethical sustainable development around the world. Guided by mentorship from our facilitators and faculty, your ideas will be refined and directed toward creating tangible impacts that contribute to a greener and more sustainable future.

5. Earn a Professional Certificate & Boost your Career Prospects

Upon completion, you'll receive a digital Smart Certificate as your certificate of completion, providing an added advantage for your LinkedIn profile and resume. Gain access to real job insights and data, directly tied to the skills and learning outcomes of the course. Your digital certificate utilizes blockchain and machine learning technology, showcasing each skill's career value and connecting you with real job opportunities that align with your acquired expertise. Boost your employability and career prospects with this cutting-edge certification.



COURSE SCHEDULE (2-WEEKS)

Course Plan: Total 32 hours: Mon-Fri 6:15-8:15pm ET; Saturdays: 8:30am - 12:30pm ET.

Day /Date	Contents	Reference Materials	
	Theme: Multidimensional Development		
Day 1: Mon, 11/6 6:15-8:15pm ET 2hrs	Introduction to the course. Getting to know each other.	Assessing the current global/national context Global conflicts - how do they impact climate change and sustainability? Introduction to the course and the capstone project. Cohort introductions.	
Day 2: Tues, 11/7 6:15-8:15pm ET 2hrs	Capstone Launch Capstone Project Workshop	Establishing your groups & The Golden Circle Workshop	
Day 3: Wed, 11/8 6:15-8:15pm ET 2hrs	What is development? How/why is development contested?	Conceptualising Contested Development – From Grand Narratives to the Nitty-gritty of the Everyday. Geiser, U. in Contested Development in Nepal: Experiences and Reflections. Sharma SR et.al. (2015).	
Day 4: Thurs, 11/9 6:15-8:15 pm ET 2hrs	Concepts of human poverty and human development; Poverty and inequality: Why do they persist?	Readings in Human Development: Concepts, Measures, and Policies for a Development Paradigm. Sakiko Fukuda Parr and A.K Shiva Kumar. (2003). Chapter 1.1: Development as Capability Expansion Chapter 1.2: The Human Development Paradigm Introducing the Human Development and Capability Approach. Sabina Alkire and Séverine Deneulin. (2012). Berlin, I. (1969). Two Concepts of Liberty. Four Essays on Liberty, Oxford, England: Oxford University Press. Documentaries to watch before Day 4 class: 1. History of Poverty (58 min) 2. Poverty in El Salvador (8 min)	
Day 5: Fri, 11/10 6:15-8:15pm ET 2hrs	Concepts of human poverty and human development; Poverty and inequality: Why do they persist? (Cont	Chapter 1.4: The concept of human poverty Chapter 3.4: The politics of poverty eradication Gas, HJ. (2012). The Benefits of Poverty, Challenge, 55:1, 114-125	



	Theme: Dissecting Sustainable Development		
Day 6:			
Day 6: Sat, 11/11 8:30am - 12:30pm ET 4 hrs Day 7: Mon, 11/13 6:15-8:15pm ET	Introduction to Sustainable development Why sustainable development? Capstone Project Workshop Critiquing Sustainable Development	The Age of Sustainable Development by Jeffery Sachs (2015) Indicators of Sustainable Development Guidelines and Methodologies (2007) 3 rd Edition United Nations (Making sense of sustainability) Raworth, K. (2017). Doughnut Economics An Historian's Critique of Sustainability By Kathleen R. Smythe, Culture Unbound, Volume 6, 2014: 913–929	
2hrs	Business as usual vs sustainability	Criticism of the Concept of Sustainable Development http://planetaryproject.com/planet_project/critical/ Critiquing Sustainable Development: A Meaningful Way of Mediating the Development Impasse?	
	Theme: Ethics	and Sustainable Development	
Day 8: Tues, 11/14 6:15-8:15pm ET 2hrs	Book Review & Discussion Global Conflicts & Sustainability Challenges	Ishmael (1992) by Daniel Quinn	
Day 9 Wed, 11/15 6:15-8:15pm ET 2hrs	Why does ethics matter in Development?	A New Discipline: Development Ethics. Goulet, D. (1996) The Ethics of Development. Gasper, D. (2004) Ethics and Development: Theory and Practice. Crocker, D. (2009) Ethics and Poverty. Singer, P. (2011)	
Day 10: Thurs, 11/16 6:15-8:15pm ET 2hrs	The good, the bad and the ugly: Ethics, Conflict, and Development Introduction to Nepal	Ethical and Moral Aspects of Energy Use https://www.encyclopedia.com/environment/encyclopedias- almanacs-transcripts-and-maps/ethical-and-moral-aspects- energy-use Ethical dilemmas due to global conflicts/AI Presentation - Dilemmas of a Developing Nation	
Day 11: Fri, 11/17 6:15-8:15pm ET 2hrs	Capstone Project Workshop (Finalize)		



Theme: Making the Difference: Capstone Presentations			
Day 12: Sat, 11/18 8:30am - 12:30pm ET 4 hrs	Capstone Presentations	Making the difference & Launching a sustainable initiative	
Day 13: Sun, 11/19 6:15-8:15pm ET 2 hours	Capstone Presentations (cont. if needed)		
Day 13/14: Mon, 11/20 6:15-8:15pm ET 2hrs	Wrap-up & Course Reflections		

SKILLS/COURSE OUTCOMES

Skills gained/practiced: Critical and analytical thinking, creativity and innovation (capstone), remote work management, interpersonal and interdisciplinary communication, diversity and cultural intelligence, public speaking, thought leadership, problem-solving

- Learn foundational theories and practice of global sustainable development, with Nepal as a case study for developing countries
- Analyze and critique sustainable development and ethics through literature reviews and active learning discussions Ask: Why do ethics matter in development?
- Gain an understanding of the conceptual foundations of human and economic development in the context of sustainable development
- Understanding the concepts of poverty and investigating the inequalities in poverty and why they continue to exist
- Develop knowledge of global sustainable development, analyze global case studies
- Discover Nepal's SDGs frameworks, initiatives, and challenges in development
- Practice creativity and innovation with an Agile Capstone Workshop Explore innovative opportunities to apply your learnings and how to transform your knowledge into action

EVALUATION

The course will be evaluated on a Pass/Fail basis. 80% of the evaluation will be based on participation in the course and Agile Capstone Workshop. For those who cannot attend live classes, you will be eligible to complete a participation piece separately. 20% will be based on other reflections and written work. Students who pass the course will receive TGP's Smart Certificate upon completion as a reflection of the skills gained during the course.



INDICATIVE READING LIST

The course includes digital versions of most of the reading materials. The course instructor will review any materials that may need to be provided by the student.

Fukuda-Parr, S. and Kumar, S. (eds). (2004) Readings in Human Development. Oxford University Press. Crocker, D. (2008). Ethics of Global Development: Agency, Capability and Deliberative Democracy. Cambridge University Press.

Gasper, Des (2004). The Ethics of Development. Edinburgh University Press.

Hickel, Jason (2022). Less is More: HowDegrowth Will Save the World. William Heinmann, London.

International Hellenic University (2015). Introduction to Sustainable Development. IHU.

Quinn, Daniel. (1992). Ishmael. Bantam/Turner Books.

Raworth, Kate. (2027). Doughnut Economics: 7 Ways to Think Like a 21st Century Economist. Chelsea Green Publishing.

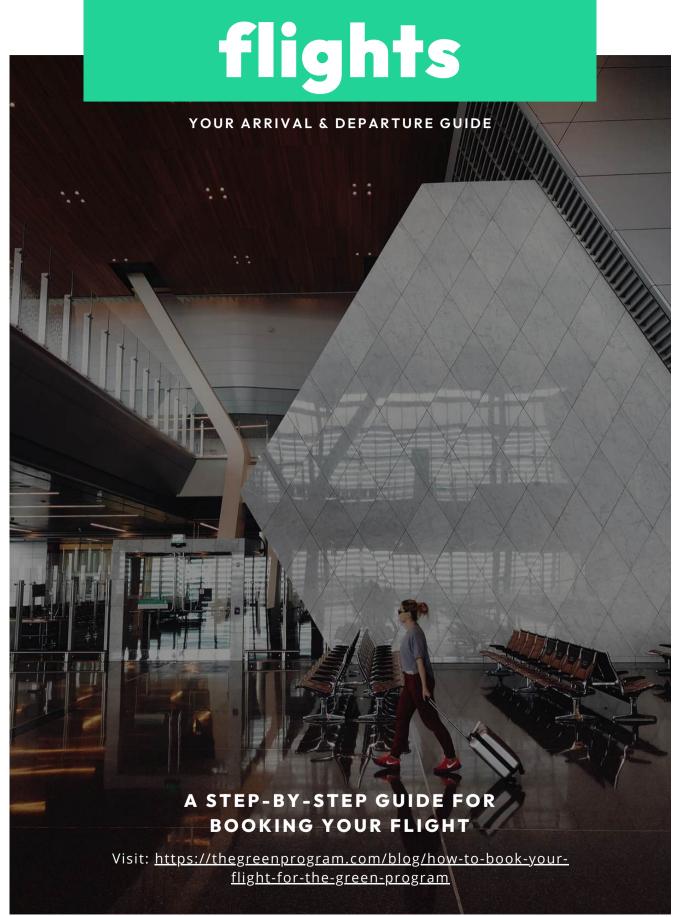
Sen, Amartya (1999). Development as Freedom. Oxford University Press

Sachs, JD (2015). The Age of Sustainable Development. Columbia University Press.

Sharma, SR, et al. (2015). Contested Development in Nepal: Experiences and Reflections. School of Arts Kathmandu University.

Smythe, KR. (2014). An Historian's Critique of Sustainability. Culture Unbound, Volume 6, 2014: 913–929 Soubbotina, TP (2004). Beyond Economic Growth: An Introduction to Sustainable Development. World Bank. United Nations. (2007). Indicators of Sustainable Development: Guidelines and Methodologies. 3rd Edition. UNDESA.

Other relevant articles, reports, web links, blogs, etc...



arrival & departure

Participants are responsible for their own flights and have the option to book their flights through our partners at StudentUniverse. Our partnership with StudentUniverse guarantees special student pricing and strong customer service to assist you with your travel arrangements. In addition, TGP offsets our participants' flight emissions who book through StudentUniverse annually. Participants can visit their student portal for more information about booking their travel.

Below are the arrival and departure guidelines for each program. "Arrive" notes the first day of the program and "Depart" is for the last day of the program. TGP will provide transport to and from the airport within the following guidelines:

iceland

Keflavik International Airport (KEF)
Arrive by 9 AM
Depart after 4 PM
*Participants will arrive to KEF airport by 2 PM

peru

Alejandro Velasco Astete International Airport (CUZ)
Arrive by 10 AM
Depart anytime

belize

Arrive by 10 AM to Placencia Airport (PLJ)

Depart after 1:30pm from Philip S.W. Goldson

International Airport (BZE)

nepal

Tribhuvan International Airport (TIA)
Arrive by 10 AM
Depart anytime

new orleans

Louis Armstrong International Airport (MSY)
Arrive by 10 AM
Depart after 1 PM

indonesia

Soekarno–Hatta International Airport (CGK))
Arrive by 2 PM
Depart after 2:30 PM

*All participants will be greeted by TGP staff at a designated meeting point. Photos of the staff, contact information, and meeting point details will be emailed to participants prior to traveling so you can easily meet with our team at the airport. If flight guidelines are not met, participants are responsible for any additional travel costs that may occur.

AN EDGE IN THE INTERVIEW "TGP was my ignition. The Program gave me an edge in the interview process because, when I said I was interested in a career in alternative energy and sustainability, I was not just talking. I had something to show for it. The GREEN Program played a large role in the three job offers I received." - Dan Conner, Combustion Dynamics Intern at General Electric (2011); Project Director - Sustainability, Energy at WSP USA (2023)

WHERE TGP ALUMNI ARE MAKING AN IMPACT















99% of alumni find purpose

Professionally, personally, and/or academically with TGP

91% alumni engagement

Alumni who stay involved with the TGP community postprogram

4:5 interviews

4:5 alumni say that an employer has asked them about their TGP experience in a job interview

95%
stay in
sustainability
Alumni who stay
involved in
sustainability efforts

post-program

ALUMNI S U C C E S S

The GREEN Program is committed to enhancing the professional and personal lives of our participants beyond our program. Alumni are invited to join a growing GREEN Alumni Network of more than 4,000 young professionals who share a passion for making a difference in sustainable development.

The Alumni Network is a platform for alumni to share opportunities that include but are not limited to the following Alumni Benefits:

- Join a global network of more than 4,000 sustainabilityfocused young professionals from more than 470 universities and 70 countries
- Connect with sustainability-related jobs and internship opportunities around the world
- Access to leadership opportunities including our Ambassador and Industry Mentors programs
- Stay updated with regular professional development opportunities and sustainability-related job openings
- Stay informed about industry conferences, and receive invitations to exclusive networking events
- Continue the adventure and receive alumni-only invites to our Alumni Reunions around the world

Enrollment Process

APPLY

In your application, you'll have the opportunity to tell us about yourself, your passions, and career goals. You'll hear from our team within 48 hours, and get matched with a TGP team member upon acceptance.

Apply: thegreenprogram.com/apply

ENROLL

Your enrollment process is simple - it's all in your Portal. Secure your spot for your program(s) here before spots fill up! Upon acceptance, you'll receive access to set up your portal.

TRAVEL

Book your flight and complete your enrollment in your Portal. Our team is here to guide you every step of the way and send more details about orientation and program prepartions. We can't wait to travel with you!

thegreenprogram.com

AN OUTSTANDING EXPERIENCE THAT EVERY STUDENT SHOULD HAVE

The GREEN Program is amazing in not only relating what academic programs teach to real world experiences but also integrating the academic outcomes.

This is an outstanding experience that every student in related disciplines should have as it provides a multidimensional, multinational, and interdisciplinary experience.

 Sarma Pisupati, Undergraduate Program Chair of Energy Engineering, Director of Online Education, Pennsylvania State University



PARTNERSHIPS

UNIVERSITY & CORPORATE PARTNERSHIPS

Our partnerships meet the goals of the institution, company, faculty, staff, and their participants.

Contact info@thegreenprogram.com to inquire about becoming a TGP partner.

thegreenprogram.com/university-partners

THE GREEN SCHOLARS PROGRAM

The Scholars Program offers competitive opportunities for motivated students who represent disadvantaged, low-income, and underrepresented backgrounds to receive partial and full scholarship and fellowship opportunities for our programs abroad.

thegreenprogram.com/scholarship

HIRE TGP ALUMNI

We connect emerging talent in sustainable development with companies and organizations that are committed to advancing the SDGs.

Contact info@thegreenprogram.com to inquire.

CUSTOM PROGRAMMING & SPONSORSHIPS

To inquire about custom program development or sponsorships for your institution, company, or organization, contact info@thegreenprogram.com.

CONTACT US

EMAIL

info@thegreenprogram.com

PHONE

+1 (215) 821-0935 *Also available on WhatsApp

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