

Generación SEA

Binational Youth Climate Resilience Academy

ACADEMY HANDBOOK

AN INITIATIVE BY:

UN MAR DE COLORES

San Diego Foundation

THIS HANDBOOK BELONGS TO:

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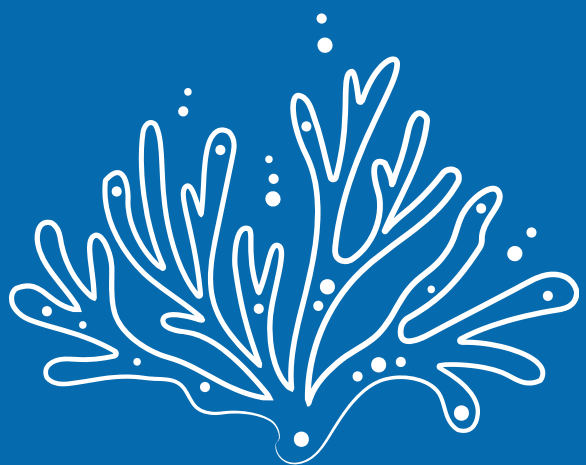




1
WELCOME



WELCOME

Generación SEA

As the Director of Un Mar de Colores, it is my pleasure to welcome you to an enriching journey where education meets action to create a sustainable future. Our academy is dedicated to fostering a deep understanding of climate science and urban sustainability, empowering you, our next generation of leaders, to innovate and advocate for a healthier planet.

Our mission is clear: to equip you with the knowledge and skills necessary to address the pressing climate challenges of our time. Through a hands-on curriculum that blends theory with practical application, you will explore the complexities of climate issues in the Cali-Baja region and learn the knowledge and practical skills that can be implemented in everyday life to combat climate change.

Expect to be challenged, inspired, and supported as you navigate through our diverse program offerings. We are committed to providing you with a transformative educational experience that not only broadens your understanding but also prepares you to take meaningful action.

We look forward to seeing the impact you will make as a part of our community. Together, let's work towards a sustainable and resilient future.

With gratitude,
Mario Ordoñez-Calderón
Executive Director, Un Mar de Colores

With much love and work for Orlando, Osmar, and Abraham, 18-year-olds who only wanted a cleaner beach and had no idea of everything that was yet to come. A program that sums up 12 years leading Kilómetro Uno and a year at Oxford University.

A program that acknowledges the value of science but also recognizes the people and organizations at the forefront of the environmental struggle.

A program that values what is learned inside the classroom as much as what is learned outside, in contact with nature.

A program that gives equal weight to the knowledge of an "expert" and the knowledge of our indigenous and local communities.

A program where a session of surfing, kayaking, or hiking is the best tool for reinforcing learning.

At Kilómetro Uno, we will continue to do everything possible to open doors and pave the way for future generations of environmental leaders.

Thank you to Un Mar de Colores for believing in the vision and to the San Diego Foundation for making it possible.

Thanks to the first wave of Youth from Generation SEA and congratulations to their parents and guardians for having such incredible children.

Orlando Anaya
Executive Director, Kilómetro Uno

2
THE TEAM



THE TEAM

Un Mar De Colores increases coastal access for underserved youth by providing surf therapy, environmental education, and long-term mentorship. In doing so, we inspire the next generation of ocean stewards.



MARIO ORDOÑEZ-CALDERON

Co-Founder and Executive Director

A Navy Veteran, Indigenous Mayan, and surfer, Mario is deeply inspired by the ocean's power as a catalyst for interconnection. He holds a Bachelor's Degree in Social Sciences from San Diego State University and is a certified International Surfing Association Level 1 Surf Coach. Mario brings a wealth of experience in experiential learning, community engagement, and advocacy to promote environmental sustainability.



YVETTE BELTRAN

Director of Programs

Yvette, a first-generation Latina queer woman, is passionate about history, healing, and decolonization. With certifications in Community Resilience Model Teaching and Surf Therapy For Trauma Recovery, she develops trauma-informed and community-centered approaches to support our programs. Yvette holds a Bachelor's Degree in Latin America Studies from University of San Diego.



RAMON CHAIREZ

Director of Education and Environmental Advocacy

Ramon, with his roots in South San Diego, holds an M.A. in Education with an emphasis on Multicultural Counseling and Psychology. His extensive experience in working with underrepresented youth shapes his dedication to fostering inclusive, reflective, and empowering spaces for learning and growth.

THE TEAM

Passionate about Sustainability and Social Innovation. Strong believers in the capacity of youth to inspire and create change. Kilometro Uno is a coastal and marine conservation team focused on the impacts and solutions to marine litter, and climate change. While also seeks to empower and involve the next generation of environmental leaders.



ORLANDO ANAYA

Co-Founder and Executive Director

Orlando has served as a consultant for the United Nations Development Programme and the Commission for Environmental Cooperation. He has been a guest and speaker at various Global Summits, such as the Our Ocean Conference, One Young World, and the World Ocean Summit. Orlando holds an MSc in Environmental Change and Management from the University of Oxford.



ABRAHAM GARCIA

Co-Founder and Director of Programs

With 12 years of experience leading marine conservation projects, Abraham García is an environmentalist, underwater photographer, freediver, and former athlete with 20 years of experience in athletics. He holds a degree in Business Administration and Marketing from CETYS University. Abraham is passionate about the ocean, sports, and education. He was part of the first cohort of the Marine Debris Leadership Academy of the National Oceanic and Atmospheric Administration and the Tijuana River National Estuarine Research Reserve



OSMAR SANMIGUEL

Co-Founder and Director of Operations

Bachelor's degree in Accounting from UABC and a Master's in Comprehensive Environmental Management from El COLEF and CICESE. Co-founder and current Director of Operations at Kilómetro Uno. Consultant on governance and plastic pollution for the United Nations Environment Programme in Mexico from 2022 to 2023. Expert in waste management and administration, with over 8 years of experience.



LUIS VILCHIS

Volunteering Coordinator

Volunteering Coordinator at Kilometro Uno, Clinical Psychology candidate, recipient of the Juan Ignacio Guajardo Romero Academic Mobility Scholarship for an academic stay at the Faculty of Psychology at the University of Salamanca, Spain, former high-performance athlete, and national multi-medalist in Tae Kwon Do.

3 PROGRAM OVERVIEW



PROGRAM OVERVIEW

At Generación Sea, our mission is to fortify coastal resilience in the Cali-Baja region by empowering the next generation to lead in climate action and environmental stewardship. Through a series of educational workshops led by industry experts, hands-on experiences, and collaborations with local organizations, our participants are equipped to tackle critical coastal challenges including erosion, pollution, and the broader impacts of climate change.

OUR APPROACH



EXPERIENTIAL LEARNING

Dive into hands-on activities that bring environmental concepts to life, from surfing to participating in beach clean-ups.



COMMUNITY ENGAGEMENT

Work alongside local organizations to understand and address the unique environmental challenges facing the Cali-Baja coastlines.



ADVOCACY

Learn how to be an effective climate dvocate to influence policy and public opinion.

OUR COMMITMENT:

Un Mar de Colores and Kilometro Uno believe that real change begins with a deep, personal connection to the environment we aim to protect.

PROGRAM GOALS

- Enhance Basic Climate Resilience Knowledge: Equip our youth with a comprehensive understanding of climate resilience principles and the interconnectedness of social and climate issues.
- Foster Cross-Border Collaboration: Create a community of young leaders from the San Diego/Tijuana region who are informed, interconnected, and passionate about their shared environment.
- Empower Youth Leadership: Develop the skills necessary for participants to lead community-based climate action projects, supported by a tailored Climate Resilience advocacy toolkit.
- Strengthen Community Engagement: Build robust connections with local stakeholders to enhance community resilience and prepare participants for future roles in environmental science and conservation.



4 GUEST SPEAKERS

GUEST SPEAKERS



OCTAVIO ABURTO
Professor, Researcher, Photographer, Founder, and National Geographic Explorer.
Scripps Institution of Oceanography, UC San Diego
Mares *Mexicanos*



RODRIGO BEAS
Professor, Researcher, and Founder
Universidad Autonoma de Baja California.
MexCal



MANOLO MENDIETA
Wildlife Filmmaker and Founder
Spunco Films
Net Zero Expeditions



ALBERTO RIVERA
Researcher
Scripps Institute of Oceanography, UC San Diego.



PALOMA AGUIRRE
Mayor Imperial Beach



DOLORES BARRIENTOS
Representante en Mexico
Programa de las Naciones Unidas para el Medio Ambiente



WAYLON MATSON
Co-Founder
4 walls International



DIANDRA MARIZET
Co-Founder and Executive Director
Intersectional Environmentalist



GABRIELA MUNOZ
Investigadora y Profesora
Colegio de la Frontera Norte

GUEST SPEAKERS



DESTINY PRESTON
Assistant Deputy Director of Transportation Planning
California Transportation Commission



SASHA CALDER
Director of Impact
Geno



JUAN REYNOSO
Ipai-Kumeyaay from the San Pasqual Band of Kumeyaay Indians



DARBI BERRY
Director
San Diego Regional Climate Collaborative



MCGARRAH WILSON
Youth Program Coordinator
San Diego 350



ALEX KLEIN
Holistic Resilience Practitioner
Resilient Cities Catalyst



LACEY CANNON
Founder and Executive Director
Indigenous Regeneration



NAPOLEON GUDINO
Researcher
Instituto de Investigaciones Oceanologicas, Universidad Autonoma de Baja California.



JUAN MANUEL RODRÍGUEZ
Investigador
El Colegio de la Frontera Norte

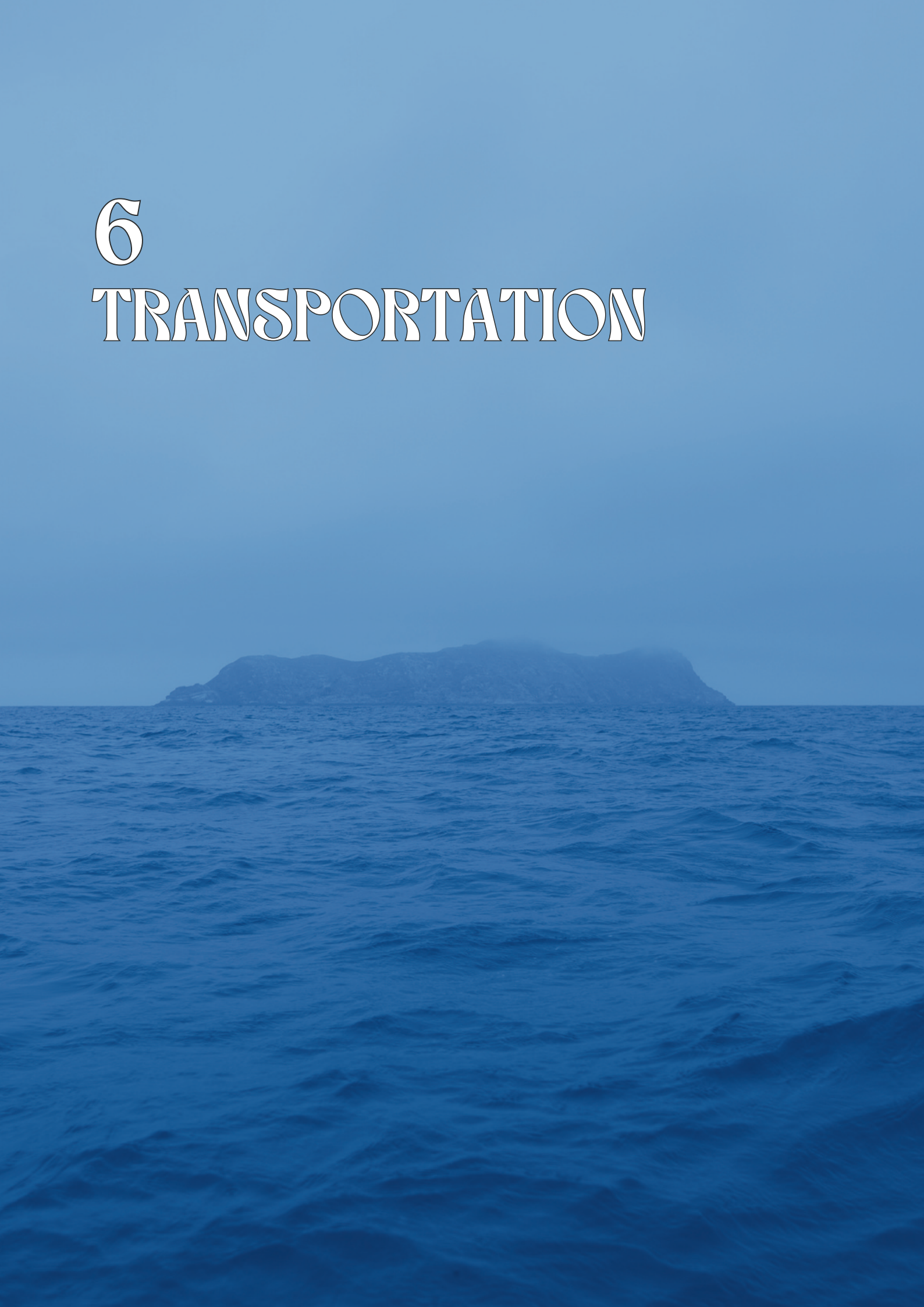


5 PROGRAM SCHEDULE

PROGRAM SCHEDULE

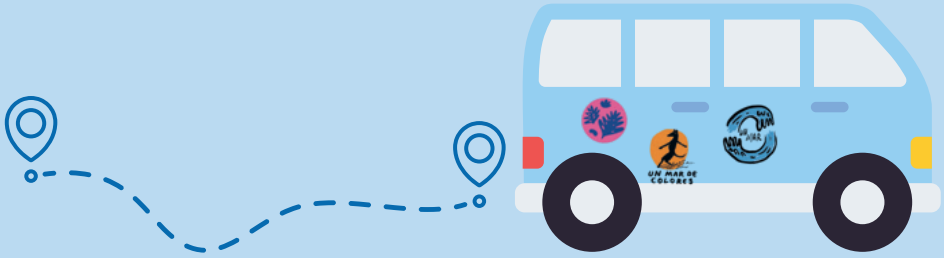
WEEK	THEME	DATE	LOCATION
1	Orientation	October 6th	San Diego
2	Climate Change and its impact on Coasts and Oceans	October 12th	Tijuana
3	Marine Biology and Conservation	October 19th	San Diego
4	Nature Based Solutions	October 26th	Ensenada
5	Climate Justice	November 2nd	San Diego
6	Indigenous Ecological Knowledge and it's role in mitigating climate change	November 9th	San Diego
7	Communications for Climate Change	November 16th	San Diego
8	Urban Planning	November 23rd	San Diego
9	Green + Blue Economy	December 7th	Ensenada
10	Capstone Presentations + Graduation	December 14th	Tijuana

Generación SEA



6 TRANSPORTATION

TRANSPORTATION



TIJUANA PARTICIPANTS

PICK UP LOCATION
Salon Social El Centenario
Av. Alfonso Reyes 1102, Zona Urbana Rio Tijuana

HOUR
7:45 for sessions in Tijuana
7:15 for sessions in San Diego
7:15 for sessions in Ensenada

DROP OFF LOCATION
Salon Social El Centenario
Av. Alfonso Reyes 1102, Zona Urbana Rio Tijuana

HOUR
3:15 for sessions in Tijuana
4:00 for sessions in San Diego
3:15 for sessions in Ensenada

SAN DIEGO PARTICIPANTS

PICK UP LOCATION
3020 E Beyer Blvd
San Diego, CA 92173

HOUR
7:45 for sessions in San Diego
7:15 for sessions in Tijuana
6:45 for sessions in Ensenada

DROP OFF LOCATION
3020 E Beyer Blvd
San Diego, CA 92173

HOUR
3:15 for sessions in San Diego
4:00 for sessions in Tijuana
4:00 for sessions in Ensenada

In case of schedule changes or delays, parents will be informed through the WhatsApp group.

Please ensure arrivals on time, as the shuttle bus departure is non-negotiable



7 LIST OF MATERIALS

LIST OF MATERIALS

Basic Supplies:

- Notebook and Pen/Pencil
- Binder or Folder
- Laptop or Tablet
- Water Bottle
- Reusable Bag

Outdoor gear:

- Comfortable Clothing
- Good Walking Shoes
- Sun Protection



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CAPSTONE PROJECT OVERVIEW



CAPSTONE PROJECT

Objective: Empower participants to design and implement actionable solutions to climate-related challenges in the San Diego/Tijuana region through interdisciplinary teamwork and community engagement.

Project Components and Evaluation

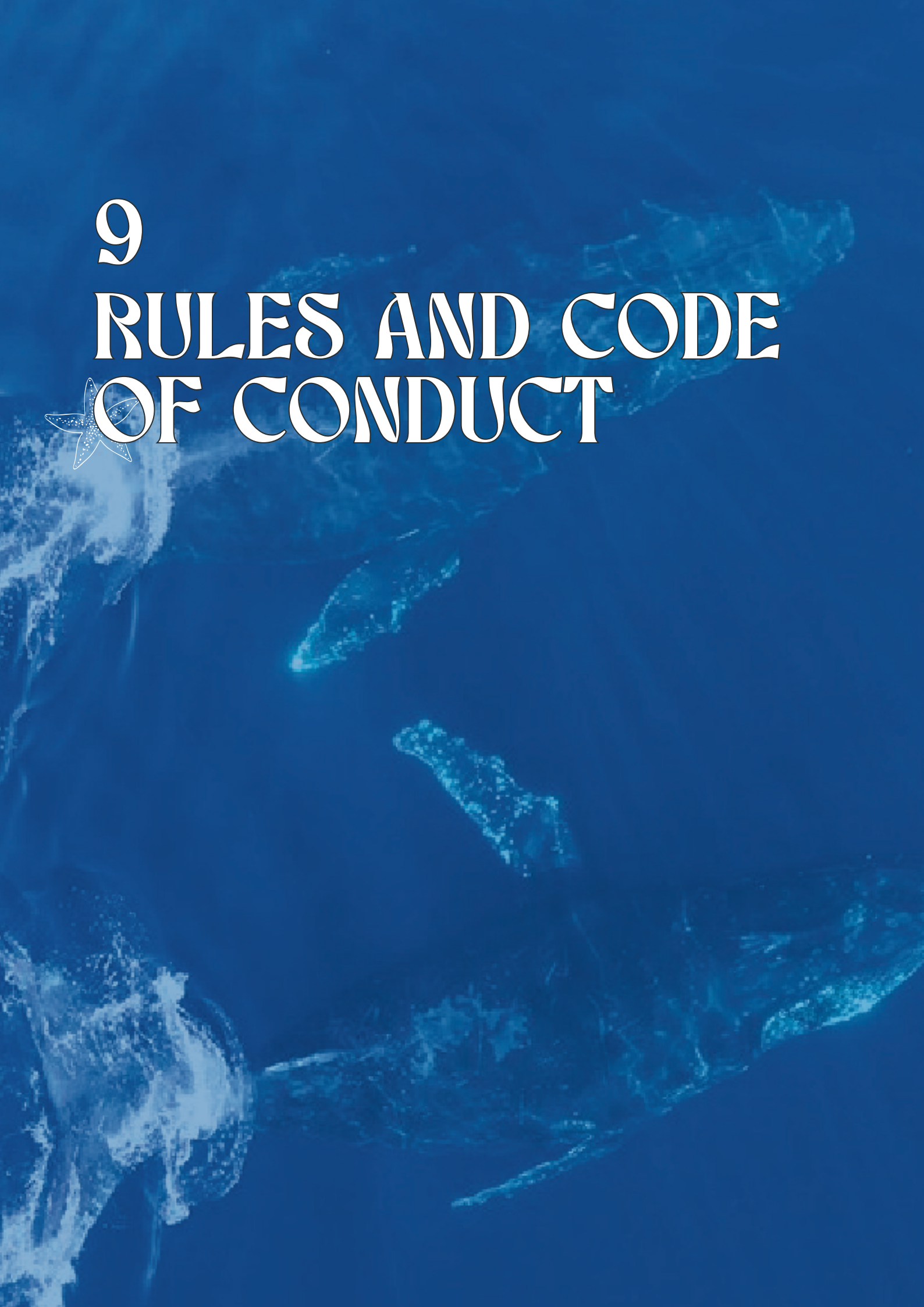
Issue Identification and Research (20%)	• ***Task:*** *Identify a climate-related problem affecting the San Diego/Tijuana region.* • ***Activity:*** *Conduct research to understand the problem, its causes, and its impacts on local communities.* • ***Outcome:*** *A research report summarizing the problem and relevant data.*
Solution Design (20%)	• ***Task:*** *Develop innovative, feasible solutions addressing the identified issue.* • ***Activity:*** *Brainstorm and design interventions, integrating sustainable practices.* • ***Outcome:*** *A proposal detailing the solutions, with feasibility analysis.* • ***Evaluation:*** *Innovation, integration of sustainable practices, and feasibility of solutions.*
Community Engagement (20%)	• ***Task:*** Engage with local communities to gather input and build support. • ***Activity:*** Conduct meetings, surveys, and workshops. • ***Outcome:*** A report on community feedback and its integration into the project. • ***Evaluation:*** Effectiveness of engagement activities and quality of community input.
Action Plan Development (20%)	• ***Task:*** *Create a detailed action plan for implementing the solutions.* • ***Activity:*** *Outline steps, resources, timeline, and responsibilities.* • ***Outcome:*** *A comprehensive CCAP document.* • ***Evaluation:*** *Clarity, detail, realism, and potential impact of the action plan.*
Presentation and Advocacy (10%)	• ***Task:*** *Present the CCAP to a panel of experts and stakeholders.* • ***Activity:*** *Prepare and deliver a professional presentation, using visual aids.* • ***Outcome:*** *Feedback from the panel to refine the plan.* • ***Evaluation:*** *Clarity, professionalism, persuasiveness of the presentation.*
Implementation Strategy (10%)	• ***Task:*** *Develop a strategy for the initial stages of the project.* • ***Activity:*** *Identify potential funding sources and partnerships.* • ***Outcome:*** *An implementation strategy report.* • ***Evaluation:*** *Feasibility and planning of initial actions.*
Qualitative Evaluation (10%)	• ***Creativity, message clarity, impact, and teamwork.*** • ***Evaluation:*** *Creative approach, clarity and impact of the message, effectiveness of collaboration.*

Grading Matrix for Capstone Project

Criteria	Weight	Excellent (9-10)	Good (7-8)	Satisfactory (5-6)	Needs Improvement (0-4)
Issue Identification and Research	20%	Comprehensive understanding and articulation of the issue with extensive research.	Clear understanding with substantial research.	Adequate understanding with sufficient research.	Poor understanding with minimal research.
Solution Design	20%	Highly innovative and feasible solutions with detailed feasibility analysis.	Innovative solutions with good feasibility.	Basic solutions with some feasibility.	Solutions lack innovation and feasibility.
Community Engagement	20%	Exceptional engagement with comprehensive integration of community feedback.	Good engagement with effective integration of feedback.	Some engagement with basic integration of feedback.	Limited or no effective community engagement.
Action Plan Development	20%	Detailed and realistic action plan with clear steps and resources outlined.	Clear action plan with well-defined steps and resources.	Basic action plan with some details missing.	Vague or incomplete action plan.
Presentation and Advocacy	10%	Clear, professional, and highly persuasive presentation with effective visual aids.	Clear and professional presentation with good use of visuals.	Understandable presentation with basic visuals.	Unclear and unprofessional presentation.
Implement-ation Strategy	10%	Comprehensive strategy with identified funding sources and detailed initial actions.	Good strategy with some identified funding sources and planned actions.	Basic strategy with few details on funding and actions.	Poor or unrealistic implementation strategy.

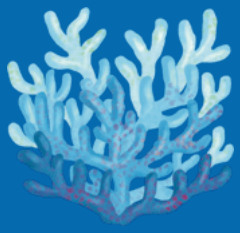
Additional Qualitative Evaluation

Criteria	*Weight*	*Excellent (9-10)*	*Good (7-8)*	*Satisfactory (5-6)*	*Needs Improvement (0-4)*
Creativity	*3%*	*Demonstrates exceptional creativity in problem-solving and presentation.*	*Good creativity displayed.*	*Basic creativity shown.*	*Lacks creativity.*
Message Clarity and Impact	*2%*	*Message is clear, impactful, and effectively communicated.*	*Clear and effective communicat-ion.*	*Somewhat clear communication.*	*Poorly communicated message.*
Ability to Work with Others	*5%*	*Excellent teamwork and collaboration.*	*Good teamwork.*	*Basic teamwork displayed.*	*Poor collaboration skills.*



9 RULES AND CODE OF CONDUCT

RULES & CODE OF CONDUCT



Live up to the Generación SEA Values

- Reciprocity: Share your skills and knowledge. Our strength lies in collective effort.
- Curiosity: Ask questions, explore new ideas, and let your curiosity guide you.
- Resilience: Climate solutions take time. Stay patient and committed, even when things get tough..



Respect and Academic Integrity

- Treat all peers, mentors, and staff with respect and kindness.
- Honor the diversity of all participants and embrace differences in ideas and perspectives.
- Honesty in courses and projects: academia values academic integrity, and participants are expected to submit their own work.



Participation and Behavior

- Punctuality and Participation: Participants are expected to arrive on time for all activities.
- Actively participate in all activities, ask questions, share perspectives, and encourage others to engage.
- Handle conflicts or disagreements constructively and seek staff mediation when necessary.



Immerse Yourself in Learning

- Teamwork and Collaboration: Many of our activities require teamwork. It is essential to communicate openly, share responsibilities, and work together harmoniously.
- Commitment to the Learning Environment: Be an active listener and complete assignments on time for each session and final project.
- Mobile devices should not be used during sessions.



Environmental Responsibility

- Respect natural environments and the materials provided during outdoor sessions.
- Avoid actions that could harm the environment or disrupt the natural habitats we explore.
- Demonstrate environmental care by engaging in sustainable practices during activities.

Our Promise to You

As part of Generación SEA, we promise to create a space where learning, leadership, and community can thrive.

Your Promise to Us

In return, you promise to be an active and committed member of our team, contributing your strengths and unique ideas.

Your Reference Contact

If you have questions or need to talk, Yvette Beltran and Abraham García Álvarez are here to support you.
Let's ride the wave of change together!

10 EMERGENCY PROCEDURES



EMERGENCY PROCEDURES AND SAFETY INFORMATION

01.

Yvette Beltran, Director of Programs, is the primary contact person for parents during academy sessions.

02.

Local Emergency Numbers: 911 for emergencies (fire, police, ambulance).

03.

We will have a list of nearby hospitals and clinics for our excursions just in case.

04.

Student Emergency Contact: A reminder for students to keep their emergency contact information up to date.

05.

Attendance and Check-In/Check-Out Procedures: Students must check in with the staff upon arrival and check out when leaving. No student is permitted to leave the premises without prior authorization.

06.

Buddy System: Students will always be accompanied in groups of three during activities, especially field activities. Stay with your assigned group and notify a staff member if you or your buddy need assistance.

07.

First Aid: A first aid kit will always be available to treat minor injuries on site, while more serious injuries will require contacting emergency services.

08.

Medical Emergencies: We prioritize the safety of all participants. Staff will provide first aid and contact emergency services if necessary. Parents or guardians will be notified as soon as possible.

09.

Allergy Precautions: Inform staff of any food or environmental allergies. Avoid sharing food or drinks with others.

10.

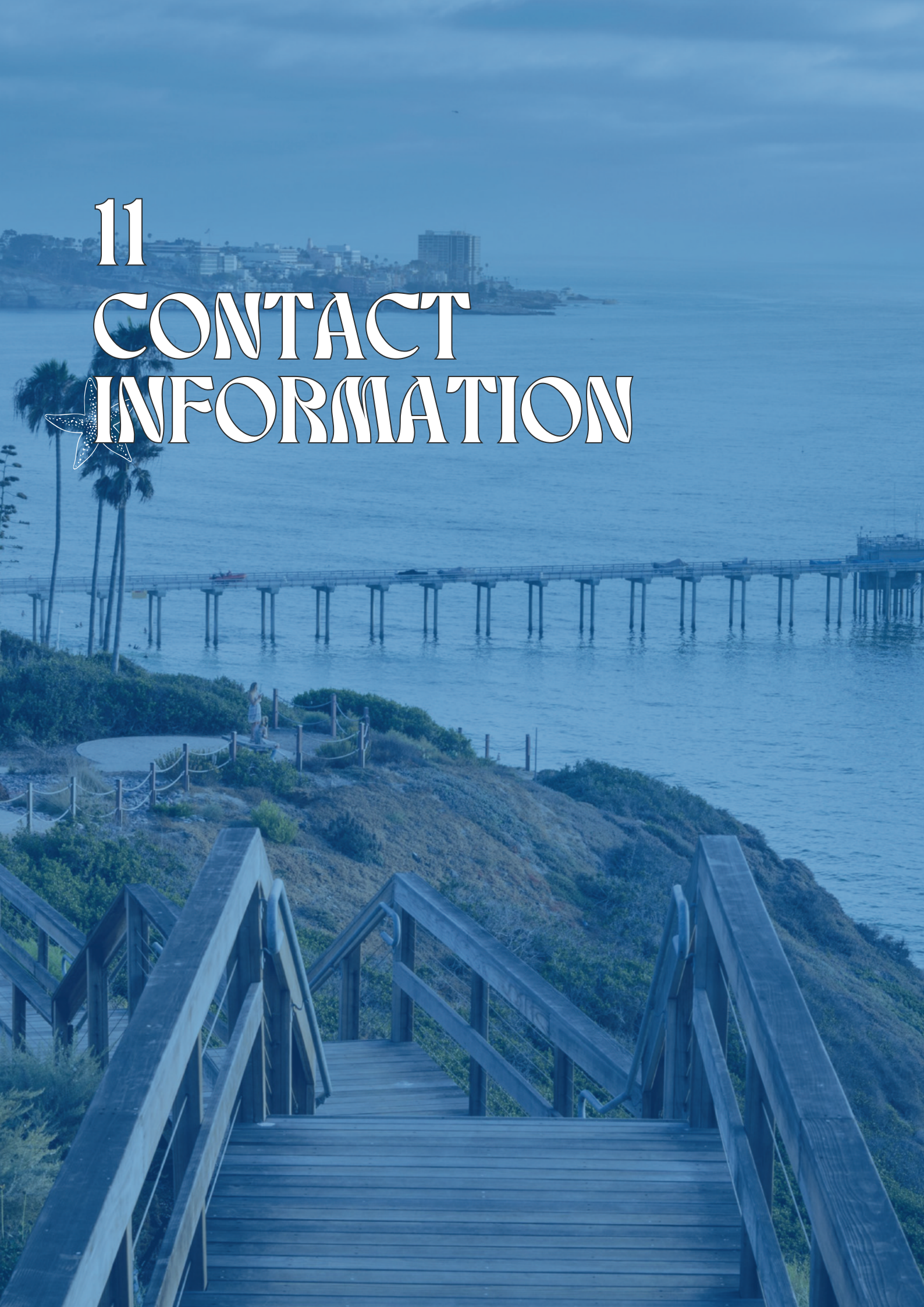
Medication: If you need to take medication during the academy, make sure it is properly labeled and stored. Notify staff if you need any assistance.

11.

Incident Reporting: If you witness an incident or accident, report it immediately to a staff member. We will have a form to fill out and keep a record of incidents throughout the academy.

12.

Communication Protocol: In case of an emergency, staff will inform the directors and parents/guardians as soon as possible.



11 CONTACT INFORMATION

CONTACT INFORMATION

Respectfully, please only reach out to us during normal business hours unless it is an urgent matter.
Our preferred modes of communication are email or WhatsApp.

Contacts for Parents:

Abraham Garcia
(664) 188 9397
abraham@kilometrouno.org

Yvette Beltran
+1 (760) 989-6596
yvette@mar-de-colores.org

Contacts for Transportation:

Abraham Garcia
(664) 188 9397
abraham@kilometrouno.org

Ramon Chairez
+1 (619) 794-3877
ramon@mar-de-colores.org

General Administration:

Orlando Anaya
(664) 157 1461
orlando@kilometrouno.org

Mario Ordoñez-Calderón
+1 (805) 390-2767
Mario@mar-de-colores.org

Resources and Student Support:

Yvette Beltran
+1 (760) 989-6596
yvette@mar-de-colores.org

Generación SEA

PUEDES SER LO QUE QUIERAS

SOLO

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