

Day 1		Thursday September 26, 2024 - CLASS Live Online via Zoom
9am – 10am	<ul style="list-style-type: none"> Welcome to FMNP course Introductions, Pre-test, Icebreaker by Ken Gioeli (30 min) Getting comfortable with Zoom technology (20 min) Course manual will be emailed to students. Present instructions for “on-your-own” assignments (10 min). This is not an assignment that you turn in to the course instructors. You will need the answers for in-class discussions. 	
ON YOUR OWN (60 min)	<p>Video: Southwest Florida’s Mangrove Coast https://www.pbs.org/video/mangrove-coast-awzgsj/ Please complete this assignment before class on Day 2. Answer these questions while watching the video:</p> <ol style="list-style-type: none"> 1. What natural features reduced coastal flooding on Marco Island when Hurricane Irma hit in Sept 5, 2017? 1:35 2. What is an estuary? 4:44 3. Why did the fisheries in Tampa Bay collapse? 22:21 4. Describe the stewardship program designed to manage land resources in Rookery Bay? 44:45 	
Day 2		Friday September 27, 2024 - CLASS Live Online via Zoom
9 am – 12:15 pm	<ul style="list-style-type: none"> Breakout Rooms: Students debrief their on-your-own video assignment from previous session (30 min) Presentation: Oyster Reef Restoration by Dr. Vincent Encomio (60 min) 15 minute break Artificial/alternative reef materials (60 min) UF/IFAS Research Oyster Reef Restoration (3:59) https://www.youtube.com/watch?v=igokrshy7dQ Are Microplastics in Our Water Becoming a Macroproblem? (2:51) https://www.youtube.com/watch?v=ZHCgA-n5wRw Look at blog https://blogs.ifas.ufl.edu/ncbs/2021/09/03/a-partnership-for-pros-plastic-free-restoration-of-oyster-shorelines/ 	
ON YOUR OWN (60 min)	<ol style="list-style-type: none"> 1. Design your own oyster reef module. This can be drawn on paper or some other suitable medium. Research all the different alternatives used for oyster reefs. Create a pros and cons list. Be prepared to share your oyster reef module design with classmates in breakout rooms using PowerPoint, Word, handwritten, or another suitable media. 2. Begin reviewing course supplemental materials to determine how you will assign value to coastal shoreline restoration projects you might be reviewing. These materials can be found in a zip folder. Individual files have also been unzipped for viewing online https://uflorida-my.sharepoint.com/:f/g/personal/ktgioeli_ufl_edu/EgZ1YYiclKNNuJ3fDeHVSnkBjFn1i7RM_N9GIWOUOMPwkg?e=cO6pr4 	
Video Assignments (60 min)	<p>Planting Considerations for Living Shorelines https://www.youtube.com/watch?v=2jf6w8DOzOs&t=1s</p> <p>PBS News Hour - Living Shorelines https://www.youtube.com/watch?v=DwSrTICsG2I&t=35s</p> <p>SCORE - South Carolina Oyster Restoration & Enhancement Program https://www.youtube.com/watch?v=qEGO-EuNN2w</p> <p>FL Aquatalk - Oyster Gardening https://www.youtube.com/watch?v=Yko-ZeJ87tY</p> <p>Oyster and Clam Farming on FL's Forgotten Coast https://www.youtube.com/watch?v=6bodGgN4eRA</p>	
Day 3		Thursday October 3, 2024 - CLASS Live Online via Zoom
9 am – 12:15 pm	<ul style="list-style-type: none"> Presentation on Salt Marsh Restoration by Carrie Stevenson (50 min) Discussion of on your own oyster reef assignment (40 min) 15-minute break Presentation on Mangrove Restoration by Dr. Vincent Encomio (50 min) Break class into four discussion groups: two Salt Marsh groups and two Mangrove Restoration group. Review course supplemental materials and determine which publications would best enable your group to determine valuation of the habitat type you are studying. Discuss how you are going to assign value to these habitats. (40 min) 	
ON YOUR OWN (120 min)	How do experts measure success of coastal shoreline restoration? Using the course materials, determine how you could measure success at the three field trip locations you will be during this course.	
Day 4		Friday October 4, 2024 - CLASS Live Online via Zoom
9 am – 11:00 am	<ul style="list-style-type: none"> Presentation on Living Shorelines by Ken Gioeli (60 min) Discuss oyster module design Course discussion: How do experts measure success? (60 min) 	

Day 5	Saturday October 5, 2024 – In-person Field Trips
9 AM – 11:30 AM	<p>Field Trip 1: Indian Riverside Park, 1707 NE Indian River Dr, Jensen Beach, FL 34957 https://www.martin.fl.us/IRSP</p> <p>Note: Park at the Mansion. Bring snorkel gear if you have it. Water shoes. We will be in the water</p>
11:30 AM – 3:30 PM	Lunch on your own and travel to field location 2
1 PM – 3:30 PM	<p>Field Trip 2: Old Fort Pierce Park, 1001 S. Indian River Dr, Fort Pierce, FL 34950 https://www.trailoffloridasindianheritage.org/old-fort-park/</p> <p>Note: Bring snorkel gear if you have it. Water shoes. We will be in the water.</p>
Self-directed Field Trip	On Your Own Geomatics Activity *Can be done any time during the course.
(240 Min)	<p>This component of our course will have you using geomatics applications at one coastal shoreline near you. If you are unable to participate in the in-person field trips 1 & 2, you will repeat the geomatics activity two additional times. Make sure you let your course instructors know you will be doing the geomatics activity two additional times instead of the in-person field trips 1&2.</p> <p>Instructions to complete Part 1. Search for one publicly accessible coastal shoreline near you. You can either visit a site that has already been restored or one that has not been restored. A list of restored sites can be found online https://floridalivingshorelines.com/ https://floridadep.gov/rcp/resilient-florida-program/content/resilient-florida-program-living-shorelines</p> <p>Prepare to make a visit to this site. Try to find a site that shows variety of habitat types. For example, look for a site that has salt marshes, mangroves, oyster beds, and general living shorelines. Its ok if you cannot find variety.</p> <p>Instructions to complete Part 2. Download the iNaturalist app or visit http://www.inaturalist.org If you aren't already a member of iNaturalist, please sign up and create a profile. Join our course iNaturalist project at https://www.inaturalist.org/projects/master-naturalist-coastal-shoreline-restoration-2023</p> <p>Instructions to complete Part 3. After you select a coastal shoreline near you, identify the sites virtually using online resources such as satellite maps, websites, etc. Attempt to spot features in advance such as oyster reefs. Check tide levels and weather before making site visits. Low tide on calm days are generally best times for site visits. Visit the site. Using your cellphone, take photos of the plants and animals at the site and upload them to our course iNaturalist project. Identify the plants and animals to the best of your ability. Label them with an appropriate common name or genus and species name in the course iNaturalist project.</p> <p>Instructions to complete Part 4. Reflect on your fellow students' submissions to our course iNaturalist project. If any submissions need to be corrected, or if the submissions are missing identifying information, please use iNaturalist to suggest changes or identifications. This is a type of crowdsourcing.</p> <p>The iNaturalist activity will be completed before 5 PM on April 27th. Please make sure the course instructors know your names when posting to iNaturalist.</p>
Day 6	Friday October 11, 2024 - CLASS Live Online via Zoom
9 am – 10 am	<ul style="list-style-type: none"> Your contributions to our course iNaturalist project should be completed by this date. End of course paperwork: post-test and evaluation Final course discussion Graduation