

Online summer voyagers and research program with MarineQuest

Online learning & Hands-on Fun with *UNCW MarineQuest*

Calling all **Ocean Voyagers**! Come set sail with *UNCW MarineQuest* for a weeklong journey as we discover the world of marine science. Our expeditions will include stops in the five fields of marine science- marine chemistry, marine geology, marine biology, physical oceanography, and marine technology! Together we will explore what makes ocean water unique, where the shifting sands on our planet come from, why ocean animals make their homes in different marine habitats, and venture into the deepest parts of the sea. Each day will feature a real-life marine scientist as well as interactive virtual experiences and hands-on activities to complete at home. Come aboard, from the comfort of your home port, and join us for a memorable adventure!

For ages 7-9 and 10 -13 we are offering a fun exploration of the five fields of marine science.

A typical **DAY** at Ocean Voyagers:

- Morning, mid-day, and afternoon live Zoom* sessions featuring group activities hosted by our MarineQuest educators. These will be interspersed with hands-on activities that campers complete at home utilizing a STEM kit that MarineQuest provides for you.

Highlights:

- Investigate the properties of salt and freshwater-Get messy with our water stacking challenge!
- Create a miniature ocean in a bottle and study waves.
- Discover how blue whales feed and see if you can eat as much
- Build and operate a simple submarine
- Receive a hands-on STEM activity kit to engage in learning at home

To register or for more information, please visit

<https://uncw.edu/marinequest/summerenrichment/mgonlinesummerprograms.html>

For teens ages 14-17 we are offering a two-week program focused on marine scientific research methods and career exploration.

Think you want to be a marine biologist? How about an oceanographer? Maybe you prefer marine geologist? You can explore these marine scientific career options and more during our two-week **O.C.E.A.N.S. Online** program. This unique summer enrichment program for high school age students consists of virtual interactive lessons, group collaborative work, and at home hands-on experiments to immerse you in the world of marine science. You'll be amazed by the career options marine science has for you.

A typical **DAY** at O.C.E.A.N.S. on-line will include:

- A morning **AND** afternoon 1.5-2-hour live Zoom meetings with our dedicated MarineQuest educators and professional marine scientists from UNCW's Center for Marine Science.

- 2 hours of at home experiments and activities to get you hands-on and engaged in relevant marine science research.

Highlights:

- Prior to the start of the program each student will receive a kit filled with the majority of materials necessary to carry-out each activity. You will be notified before the start of camp of any additional common household items you will need.
- Hands-on exposure to the main fields of Marine Science including marine biology, marine geology, marine chemistry, physical oceanography, marine technology, marine ecology, and biotechnology.
- Design and carryout your own plankton study with phytoplankton and zooplankton you will grow at home and present your research findings at a virtual science conference!
- Build your own paper Foldscope to magnify specimens and samples 140X.
- Go on virtual field trips to collect and analyze data at the beach, marsh, and out on an oceanographic research cruise.
- Meet and engage with UNCW faculty and scientists to learn about their research contributions to the field of marine science.
- Collaborate with other students remotely to carry out experiments, discuss findings, and create a poster to be presented on the final celebratory day of the course.
- Utilize the online learning platform used by UNCW college students.

To register or for more information, please visit

<https://uncw.edu/marinequest/summerenrichment/mgonlinesummerprograms.html>