



Project ROVe: Introduction to ROVs (online course)

Project ROVe (Remotely Operated Vehicles for Educators) educates and empowers educators to integrate maritime technology into their curriculum through underwater robotics.

In this course, you will collaborate with other educators and representatives from the National Marine Sanctuary Foundation and/or NOAA's Office of National Marine Sanctuaries (ONMS) to explore ROV technology, build simple underwater ROVs, and create an implementation plan for your classroom. This course is approximately 30 hours,

Project ROVe Goals:

- To bridge engineering and other subjects in a transdisciplinary and engaging way, while meeting required standards.
- To infuse maritime technology into course curriculum whether you want to build simple circuits in the classroom or send students to MATE competitions (or both!).
- To introduce students to various STEM career fields.
- To create opportunities for educators to collaborate around a topic area and form a supportive network.
- To connect educators with NOAA, the National Marine Sanctuary Foundation, and other partners, locally and globally.

Course Overview and Statement of Work

Course Delivery:

This course will be conducted through an online learning management system and will feature both synchronous and asynchronous activities including required reading/videos, participation in online discussions, monthly virtual cohort meetings (sometimes twice a month), online webinars and guest speakers, and hands-on activities. A detailed course calendar will be provided upon registration.

Tasks/Responsibilities (before, during, and after the course):

- Active participation in both synchronous and asynchronous activities of the virtual course (this will include participation in online forums, monthly meetings, and completion of required activities).
- Create a plan for ROV integration into your curriculum (e.g., unit plan).
- An ongoing commitment to the use of marine technology in your programming.

Time Commitment:

- Approximately 30 hours spread over 4 months- including required meetings and homework completion.

Cost:

- The full course and related materials are free of charge to participants thanks to funding provided by the program’s supporters.

Deliverables for Successful Course Completion:

1. Signed and submitted Statement of Work.
2. Completion of required homework assignments.
3. Participation in monthly, one-hour virtual meetings.
4. Completion of Implementation/Unit Plan.
5. Completion of End of Course Survey.

Course Materials:

- [Underwater Robotics](#) book valued at \$120
- [MATE Simple Circuits Kit](#) + activity materials valued at \$85

I _____ understand that if I fail to participate in the course activities, I may be required to return the course materials. I also understand that I must complete all required activities in order to receive a certificate of course completion.

Signature

Date