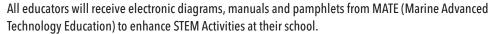*Excursions in Learning*

PROFESSIONAL DEVELOPMENT

Introduction to Underwater Robotics for Educators: Design and Build an Angelfish ROV

Course Description:

Educators, please join us for this professional development course to design, build and drive an Angelfish ROV. Each team of educators will receive a ROV chassis to keep (electronics not included). In this course participants will:

- Learn the basics of ROV (Remotely Operated Vehicle) construction techniques
- Learn the basics of DC electronics and build a control box for your ROV
- Design and build a chassis for your ROV using PVC and connectors
- Learn the basics of buoyancy and create a vehicle that is neutrally buoyant
- Use the engineering and design process to uniquely construct A SeaMATE Angelfish ROV to perform specific tasks
- Test your ROV in the pool at CCSU and then modify it for the final competition
- This course is appropriate for educators in upper elementary, middle schools or beginning high school programs

All educators will receive electronic diagrams, manuals and pamphlets from MATE (Marine Advanced Technology Education) to enhance STEM Activities at their school.

Coordinated by Excursions in Learning Youth Programs in partnership with CCSU, CGA and MATE. This course will take place on the CCSU campus.

$15 materials fee per team, made payable to the instructor at the start of class

> 1 Saturday | 3/25
> 9 a.m. - 3 p.m. | CCSU Campus
> Tuition Fee: $50 / person or $80 / 2 people (from the same school)
> Instructor: Ed Argenta and Andy Goshorn (US Coast Guard Academy, MATE)

Space is limited!

TO REGISTER: contact Carleigh Schultz at 860-512-2804 or cschultz@manchestercc.edu.
Questions about the course content email Ed Argenta EdandPat74@comcast.net

Marine Advanced Technology Education

Carleigh C. Schultz
Coordinator of Youth Programs
cschultz@manchestercc.edu
860-512-2804

Excursions in Learning YOUTH PROGRAMS
Manchester Community College

MANCHESTER COMMUNITY COLLEGE
CONTINUING EDUCATION

Student's Name : _____   New Student? ☐ yes ☐ no
first   last

Male ☐   Female ☐   Birth Date: _____   Banner ID# (if known):_____

Home Address: _____

Cell Phone: _____   Email: _____

Grade(s) & subjects taught_____   School: _____

| Permission to photograph you and use photographs in our catalog?   ☐ yes ☐ no |
| signature:_____ |

CRN#	Course Title	Course Date(s)	Time	Room	Fee
	Professional Development:	3/25/17	9 a.m. - 3 p.m.	CCSU	
	Intro to Underwater Robotics				

Total Fees: $_____

| Where did you hear about us? (Check all that apply.) |
| ☐ Mall Cart at Buckland Hills   ☐ Friend   ☐ Our Child's School |
| ☐ Newspaper Ad   ☐ Internet Search   ☐ Town Library |

Four Ways to Register:

1. By mail: Excursions Registration, MCC, Great Path, MS #16, P.O. Box 1046, Manchester, CT 06045-1046

2. By fax or phone: using a MasterCard, VISA or Discover: 860-512-2801 (fax) 860-512-2804 (phone)

3. By email: Scan completed forms and attach. Pay by credit card. Email to: CSchultz@manchestercc.edu

4. In person: at the Continuing Education office, LRC B147 (Please email or call for office hours.)

☐ Check or money order (#_____) enclosed.

Make check or money order payable to "MCC."

I authorize the use of my   ☐ MasterCard   ☐ VISA   ☐ Discover

cardholder name (print)_____cardholder signature_____

credit card #_____ expiration date (month/year)_____

cardholder phone number _____

Office Use Only   **Regis.**   **Conf.**   **Receipt #**