

Ocean Optics Summer Course Information

Calibration & Validation for Ocean Color Remote Sensing

July 8 - August 2, 2013

Calibration & Validation for Ocean Color Remote Sensing, an intensive four-week, cross-disciplinary, graduate-level course in Optical Oceanography, will be offered at the University of Maine's Darling Marine Center in summer 2013. This class is a continuation of the Optical Oceanography course first offered at the Friday Harbor Laboratories in 1985 and more recently at the Darling Marine Center. Past graduates are many of today's leaders in oceanography.

The major theme of the course is calibration and validation of ocean color remote sensing. The course will provide students with a fundamental knowledge of ocean optics and optical sensor technology that will enable them to make quality measurements, be able to assess the uncertainties associated with the measurements and compare these data with remotely sensed ocean color measurements and products derived from them. The course is sponsored by NASA and the University of Maine, with the goal of preparing a new generation of oceanographers trained in the use of optics to study the oceans.

Course elements include:

- lectures on the basic theory of the light interaction with matter in aquatic environments, ocean color remote sensing and its inversion, sensor design and function, and ocean biogeochemistry; computation and propagation of measurement uncertainties;
- laboratory sessions using optical instrumentation and radiative transfer software;
- field sampling of optical and biogeochemical variables in the environmentally diverse waters of coastal Maine;
- analysis of optical and biogeochemical data sets; and
- collaborative student projects.

See: <http://misclab.umeoce.maine.edu/~optics/> for previous class content and activities.

Instructors (alphabetical): Emmanuel Boss (coordinator), Curt Mobley, Mary Jane Perry, Collin Roesler, Ken Voss, Jeremy Werdell and Ron Zaneveld.

Dates: July 8th– August 2nd, 2013 (arrive July 7th and depart Saturday August 3rd)

Costs: Scholarships for tuition, room and board and academic credits are available. Please indicate if you require one.

Application: Application material available at www.dmc.maine.edu/coursesUM.html
Application deadline is March 1st, 2013. Notification date is April 1st, 2013.

Acceptance criteria: the likely impact of the class on the individual's career, transcripts, letter from the academic advisor/supervisor, and diversity. While the majority of the class will likely be composed of early career graduate students, advanced students and post-doctoral fellows will be considered for admission.

Ocean Optics Summer Course Application

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To apply: complete this application form and submit it with a recent transcript, a current CV (two-page maximum), a letter from your advisor, and a one-page statement of how you anticipate that this course will contribute to your professional development. Electronic submissions are preferred, but mailed and faxed applications will also be accepted.

Direct all application materials to: Linda Healy, Course Coordinator lhealy@maine.edu
Darling Marine Center phone: 207-563-8220 or 207-563-3146
193 Clarks Cove Road fax: 207-563-3119
Walpole, ME 04573

Applications due March 1 • Notification of acceptance by April 1

In complying with the letter and spirit of applicable laws and pursuing its own goals of diversity, the University of Maine shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, including transgender status or gender expression, national origin, citizenship status, age, disability, genetic information or veteran's status in employment, education, and all other areas of the University of Maine. The University provides reasonable accommodations to qualified individuals with disabilities upon request.

Name: _____

Academic Institution: _____

Mailing address: _____

Email (CLEARLY legible): _____

How did you learn about this
summer course? _____

Phone: _____

Notes for accepted students:

- Plan to arrive Sunday, July 7, and depart Saturday, August 3.
Additional travel information can be found at www.dmc.maine.edu/travel.html.
 - Scholarships for tuition, room and board and academic credits are available.
Please indicate if you require one: Yes No
 - Lodging at the Darling Marine Center will be in a shared dorm room.
Gender: Male Female
 - Meal plan includes dinner Sunday, July 7 through breakfast Saturday, August 3.
 I prefer vegetarian meals
 I prefer vegetarian meals, but also eat fish and chicken
- Please indicate allergies or dietary restrictions: _____

School of Marine Sciences
www.umaine.edu/marine



Darling Marine Center
www.dmc.maine.edu