Explore innovative ways to teach geometry, measurement, and algebra through the practice of marine navigation. Teachers will learn navigation techniques via daily hands-on experiences aboard Michigan Tech’s Research Vessel, Agassiz, and become proficient in solving navigation problems using mathematics, charts, and electronic instruments.

Instructor: R. Stephen Roblee, Professor Emeritus, Michigan Tech Dept. of Mathematical Sciences, and Captain R/V Agassiz
**Cost**  Includes 2 graduate credits

$300 per participant  **OFF CAMPUS**  
$540 per participant  **ON CAMPUS**

Cost per participant staying **off campus** is $300 and includes half-day trips daily on the Agassiz, instructional materials, and 2 graduate credits from Michigan Tech University. Cost per participant staying **on-campus** is $540 and includes 4 nights lodging, breakfast & dinner. (Grants from the Great Lakes Maritime Research Institute and from CFIRE at University of Wisconsin-Madison reduce the official cost of Michigan Tech graduate credit (2010-11 official Michigan Tech Applied Science Education graduate tuition for Residents/Non-Residents is $431 per credit). Payment of full registration fee is due June 3, via **check** payable to: *Michigan Tech University D93720* or **credit card** (Visa, MC, Discover) by calling the MTU Cashier’s Office at 906-487-2247.

**Financial Aid**

Michigan applicants who teach grades 4-10 may apply for a COSEE Great Lakes Marine Immersion scholarship through Steve Stewart (stew@msu.edu) at Michigan Sea Grant. Wisconsin applicants should contact: Jim Lubner (jflubner@aqua.wisc.edu) at Wisconsin Sea Grant.

**About Michigan Tech & Local Area**

Michigan Technological University is located east of downtown Houghton (pop. 7,000). Houghton is served daily by United Airlines (800-864-8331 or united.com) from Chicago to the Houghton County Airport. Taxi service is available from the airport to Michigan Tech’s campus for about $20 per person. Call Neil’s Taxi Service at (906) 482-5515.

Houghton, Michigan is a quaint town with roots in the historic copper mining days of the mid-19th century. Hiking and mountain biking is awesome at the nearby Michigan Tech Recreational Trail System, or stroll along Lake Superior at McLain State Park, or visit a nearby nature sanctuary. Learn more about MTU: [http://www.mtu.edu](http://www.mtu.edu) or Keweenaw Tourism information: [www.keweenaw.info](http://www.keweenaw.info/)

**Accommodations**

For an additional $240, participants will receive four nights lodging (single room) in MTU’s new Hillsdale Place 4-person suites with two bathrooms, kitchen and living room and receive meals from Monday dinner through Friday breakfast. Michigan Tech Trails and downtown Houghton are within easy walking distance.

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**To Apply & More Information**

Application forms and updated information available at:  
[http://wupcenter.mtu.edu](http://wupcenter.mtu.edu)  
[http://www.ed.mtu.edu/pd.html](http://www.ed.mtu.edu/pd.html)

**Application deadline: Friday, May 13**

Submit applications to:  
Joan Chadde, Institute Coordinator  
Center for Science & Environmental Outreach  
105 Dillman Hall—Michigan Technological University  
1400 Townsend Dr., Houghton, MI 49931  
Phone: 906-487-3341  FAX: 906-487-1620  
Email: ichadde@mtu.edu  

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![Michigan Technological University Houghton, Michigan](attachment:image.jpg)