

Massachusetts Maritime Academy

101 Academy Drive - Flanagan Hall

Buzzards Bay, MA 02532

<https://www.maritime.edu>

April 6, 2017 - 4-6:30PM

For over 100 years, Massachusetts Maritime Academy (MMA) has been preparing women and men for exciting and rewarding careers on land and sea. MMA prepares students for careers in Emergency Management, Energy Systems Engineering, Facilities Engineering, International Maritime Business, Marine Engineering, Marine Transportation, and Marine Safety & Environmental Protection.

MA MARITIME ACADEMY

ACTIVITY Engage in 'Got Milk?' an activity that provides an introduction to the concept of enzymes and metabolism.
TOUR Experience state-of-the art navigation and ship handling full mission simulator with enhanced graphic representation of real port approaches and harbors. Learn about celestial navigation. See the engineering lab with 2 story engines. Visit the aqua lab and learn about aquaculture and the impact of research on human consumption and commerce. Learn about the careers of MMA graduates – “Out of the Academy – into industry, teaching, and on the sea.”

Presenters: : Joshua Tefft, Director of Admissions, Lori Noble, Associate Professor-Department Science & Mathematics, Laurie Norman, Assistant Professor-Department Science & Mathematics. Cadets: Brendan Baggett, Ryan McCartney, and Paul Nekhamin.

RESOURCES Following the Voyage – MA Maritime Academy - <https://www.maritime.edu/news/following-voyage>
U.S. National Oceanic and Atmospheric Administration - www.noaa.gov/
Food & Agriculture Organization of the United Nations - <http://www.fao.org/fishery>

WORK-BASED LEARNING SEMINARS

- Attend three (3) career readiness sites and one (1) college readiness site.
- Create at least one (1) activity/lesson relative to the information presented. Meet with team members to discuss lessons/activities and share information with colleagues. *If schedules permit, share information at SE MA STEM Network events.*

STEM Resource Fair for STEM Stakeholders

May 18, 2017 – 3-6PM – Bridgewater State University

Register at <http://www.connectsemass.org/stem/>

- The PDP administrator for the district will verify that the Work Based Learning Seminar Series for Educators is consistent with the educational needs of the school and/or district and meets the district's PDP requirements. Once verified, the district will award professional development points (PDPs) to those that attend 3 career readiness sites and 1 college readiness site and submit required products.

6-6:30PM – Discuss Activity/Tour Assessment and Lesson/Activity

- **How can what you learned be applied to the development of educational experiences that foster the development of skill sets of PreK-12 students need to succeed in college and in the workplace.**
- **Integrating MA STE Practices – to which STE Practice(s) does the seminar most relate?**
Practices: 1. Asking questions (for science) and defining problems (for engineering). 2. Developing and using models. 3. Planning and carrying out investigations. 4. Analyzing and interpreting data. 5. Using mathematics and computational thinking. 6. Constructing explanations (for science) and designing solutions (for engineering). 7. Engaging in argument from evidence. 8. Obtaining, evaluating, and communicating information.
- **How does the seminar link to one or more STEM majors?**
Agriculture & Natural Resources · Architecture · Biological & Biomedical Sciences · Computer & Information Science · Engineering & Engineering Technology/Technicians · Health Professions & Clinical Science · Mathematics & Statistics · Mechanic/Repair Technician · Military Technology · Physical Sciences · Precision Manufacturing.

For more Information, contact Katherine Honey, SE MA STEM Network Coordinator at khoney@comcast.net.