Engineering Technology Session

• Engineering vs Engineering Technology
• Our two programs
  – Marine Engineering Technology
  – Facilities Engineering Technology
• Curriculum
• Faculty
• Program Coordinators
Engineering vs Engineering Technology

- Great deal of overlap
- Both focus on practical applications
- Engineering Technology: Emphasize the application of engineering techniques
- Engineering: Focus on the development of concepts

**Misconception:** No need of math skills to be successful in Engineering Technology
What does an Engineering Technologist do?
What does an Engineering Technologist do?

Engineering Technologist: practical application of science and engineering to solve a wide range of complex technical and operational problems.
Facilities Engineering Technology (FET)
➢ ABET Accredited Program

Marine Engineering Technology (MET)
➢ ABET Accredited Program
➢ USCG Certified Program
Facilities Engineering Technology

- Facilities Engineers: Routine facility utility processes
  - safest
  - most time-efficient
  - cost effective way

- Facilities Engineers: Work in a number of indoor environments
  - manufacturing facilities
  - hospitals
  - office buildings
  - power generation plants

- Curriculum: Fundamental foundation
  - Organizational skills; attention to detail; safety
  - Critical thinking; communication skills
  - Leadership experience; calm under pressure
  - Practical training in the operation and maintenance of facilities
  - Mechanical, electrical and automation systems
Marine Engineering Technology

• Marine Engineers: Commercial and Government Vessels
  ✓ design, oversee repairs installation and testing of marine equipment
  ✓ conduct performance, operational and environmental tests
  ✓ ensuring equipment and machinery is in compliance with standards

• Marine Engineers: Work with internal systems of ships
  ✓ steering, propulsion, refrigeration and electrical
  ✓ Offshore oil rigs
  ✓ alternative energy projects (wind and tidal power)
  ✓ propulsion plants

• Curriculum: Fundamental foundation
  ✓ Shipboard experience; safety
  ✓ Critical thinking; communication skills
  ✓ Leadership experience; calm under pressure
  ✓ Operation and maintenance of marine machinery and equipment
  ✓ Mechanical, electrical and automation systems

3rd Assistant Engineer License is mandatory to graduate with MET Degree
Program Navigation and Completion

- Engineering Technology Programs’ Curricula are Complex
Engineering Technology: Faculty
Committed with diverse backgrounds

ACADEMIC
Jonathan Fischer
Mike Strange
Mike Kazek
Dinesh Pinisetty
Evan Chang-Siu
Ryan Storz
Tom Clyatt

LICENSED
Mike Andrews
Robert Jackson
Scott Green
Steve Kreta
Keir Moorhead
Ken Levan
Brian Crawford
Mike Hoffman
David Satterwhite

MACHINE SHOP/WELDING
Steffan Long
David Grover
Robert Smith (Staff)

OTHER FACULTY
Neal Handly
Loren Anderson
Kristen Tener
Jack Gillespie
CORPS OF CADETS

Mission:
- Professionalism
- Leadership
- Pride and Self-Discipline, Accountability
- Responsibility

Structure:
- Companies
- Divisions
- Sections
- Squads
Informational Topics

- First-time Freshman
- Transfer Students
- Academic Preparation (English and Math)
- Residential Life
Qualities of Success

- Academic Preparedness
- Grit
Starting Salary Estimates (~2016)

- FET : $73K
- MET: $71K
- MT: $70K
- ME License: $74K
- ME: $60K
- IBL: $54K
- GSMA: $48K

94% Placement (~2016)
Engineering Technology – Who’s Who

• Facilities Engineering Technology
  Ryan Storz, Program Coordinator

• Marine Engineering Technology
  Keir Moorhead, Program Coordinator

• USCG Licensing Programs
  Michael Kazek, Director for Deck and Engine

• Engineering Technology
  Dinesh Pinisetty, Department Chair
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