ET PREVIEW DAY
2020
ENGINEERING TECHNOLOGY
Engineering vs Engineering Technology

- Overlap – Fundamental engineering courses
- Both focus on practical applications
- Engineering Technology: Emphasize the application of engineering techniques
- Engineering: Focus on the development of theoretical 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.
Engineering Technology: Programs

Facilities Engineering Technology (FET)
- ABET Accredited Program

Marine Engineering Technology (MET)
- ABET Accredited Program
- STCW Certified Program
Engineering Technology: Curriculum

**Academic Classes and Labs**
- Chemistry (lecture and lab)
- Physics I (lecture and lab) and II (lecture)
- Calculus I and II
- Speech Communication
- Critical Thinking
- Advanced Writing
- Humanities (LD and UD)
- Social Sciences (LD and UD)
- Engineering Graphics
- Welding
- Manufacturing Processes I and II
- Boilers
- Turbines
- Statics
- Dynamics
- Thermodynamics
- Strength of Materials
- Properties of Materials (lecture and lab)
- Fluids (lecture and lab)
- Circuits (lecture and lab)
- Electronics (lecture and lab)
- Motors (lecture and lab)
- Engineering Management
- Refrigeration and A/C (lecture and lab)
- Instrumentation (lecture and lab)
- Automation (lecture and lab)
- Power Engineering (lecture and lab)
- Naval Architecture

**Shipboard and Simulation**
- Plant Operations I, II, and III
- Fire Fighting
- Intro to Marine Engineering (lecture and lab)
- Steam Plant
- Systems/Simulator Class
- Steam Plant Watch Team
- Diesel Engineering I and II/Simulator Class (only MET)
- Sea Training I, II (only MET), and III (only MET)
- Shipboard Medical (only MET)

**Facilities Engineering Classes**
- Intro to Power Generation Plants
- HVAC (lecture and lab)
- Facilities Engineering
- Diagnostics Lab
- Facilities Management

*Great deal of overlap between the two programs (MET and FET)*
Engineering Technology: Faculty
Committed with diverse backgrounds

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

LICENSED
Scott Green
Steve Kreta
Keir Moorhead
Ken Levan
Brian Crawford
David Satterwhite

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

OTHER FACULTY
Neal Handly
Jack Gillespie
Electronic Connect Four (arduino)

By whelanjack11 in Circuits > Arduino  2,136  24  1  Featured

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Example Maritime Classes

- Steam Sim
- Cruise
Marine Engineering Technology

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

• Benefits
  ✓ Range of Opportunities (shore-side and marine-based)
  ✓ High salaries
  ✓ In-Demand Career
  ✓ Adventure / Travel
  ✓ Value-added: USCG License

• Desirable Characteristics – *Do you have what it takes?*
  ✓ Strong work ethic
  ✓ Equally strong working independently as well as in a team
  ✓ Desire to learn

3rd Assistant Engineer License is mandatory to graduate with MET Degree
Facilities Engineering Technology

Facilities Engineers:
Work in several environments

✓ manufacturing facilities
✓ hospitals
✓ office buildings
✓ power generation plants
✓ biomedical
Average Starting Salary Estimates

- **FET**: $80K
- **MET**: $99K

~>90% Placement Rate

Reference: Payscale.com
Engineering Technology – Who’s Who

• Engineering Technology  
  Dinesh Pinisetty, Department Chair

• Marine Engineering Technology  
  Keir Moorhead, Program Coordinator

• Facilities Engineering Technology  
  Ryan Storz, Program Coordinator

• Licensing Program  
  Michael Kazek, Program Coordinator
Contacts

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