

# MAINE MARITIME ACADEMY

A College of Engineering, Management, Science, and Transportation

## Adjunct Engineering Instructors – Fall 2026 semester

### POSITION OVERVIEW

This document describes duties that the Academy expects of adjunct faculty members. Adjunct faculty are non-permanent, temporary faculty who are hired on a semester by semester basis.

### TEACHING

Teaching responsibilities include time spent in the classroom, laboratory, or training ship(s) and in immediate preparation for these; maintaining and improving competence in subjects being taught; preparing contemporary teaching materials; conferring with students on course materials; directing individual and group studies and practica; reviewing written examinations and papers; evaluating presentations; supervising independent study projects, supervising or teaching clinical cooperatives or industry programs, and assigning grades according to existing Academy policy.

### OTHER ASPECTS OF FACULTY PERFORMANCE

Collegiality, as well as professional and ethical conduct, enhances teaching, learning and the general reputation of all persons in the academy. Therefore, all faculty members are expected to serve in a collegial fashion and in accordance with professional and ethical principles when dealing with other faculty members, students, administrators, and members of the public.

### DUTIES

- Teach at undergraduate and graduate level in areas allocated by the Department Head and reviewed from time to time by the Department Head.
- Contribute to the development, planning and implementation of a high quality curriculum.
- Assist in the development of learning materials, by preparing syllabus and lesson plans and maintaining records to monitor student progress, achievement and attendance.
- Participate in the development, administration and marking of exams and other assessments.
- Provide advice and support to students.
- Inform students of their progress by promptly returning assignments, quizzes, papers and exams
- Office Hours required per week: Varies by assignment, typically 2-3 for an adjunct teaching 12 credits or more.
- Maintain an awareness and enforce fire and health and safety regulations applicable to the teaching location.

### ESSENTIAL SKILLS

- Teaching and other forms of public presentation.
- Proven record of ability to supervise academic work by undergraduates or masters students.
- Proven record of ability to manage time and work to strict deadlines.
- Ability to write clearly and tailor communication style to meet the needs of the recipient.
- Ability to work collaboratively.
- Commitment to high quality teaching and fostering a positive learning environment for students
- Commitment to MMA's policy of equal opportunity and the ability to work harmoniously with colleagues and students of all genders, cultures and backgrounds
- Excellent interpersonal, organizational and communication skills are essential
- Ability to maintain composure in stressful situations
- High degree of professionalism
- Demonstrated integrity and ability to maintain confidentiality

## MINIMUM QUALIFICATIONS

- Bachelor's degree or higher from an accredited institution or the highest degree appropriate in a relevant field of specialization.\*
- Candidates must have a 3 years minimum industrial experience in their appropriate industry.
- Prior successful teaching/training experience desired.
- Membership in relevant professional organization(s).
- Applicable professional license(s).
- Normally will have produced creative work, professional writing or research in refereed and other professional journals, and be a recognized authority in the field of specialization. Must meet Academy criteria for appointment to the rank of Assistant/Associate/Full Professor.
- \* Preferred but not required for: Lab Instructors

## SPECIAL CONDITIONS

- Background check is required
- Tobacco-free campus.
- Must present original copies of transcripts

## COURSES/POSITIONS AVAILABLE

**EG234 : Power Equipment Lab** — An introduction to marine and stationary power plant systems and equipment through study, inspection, and maintenance applications. Topics include lubrication and lube oil purification systems; pumps; air removal equipment; and heat exchangers; piping systems and valves; control systems for temperature, pressure, and flow; compressed air systems; distilling plants; and auxiliary steam turbines. In addition, basic equipment techniques and tag-out safety procedures are introduced. This course supports the marine license program requirements to meet the Standards for Training, Certification and Watchkeeping (STCW). The course may have embedded assessment requirements that must be completed in addition to the class requirements. Prerequisite: EG101. Rec. 1, Lab 2, Cr. 2.

One three-hour lab per week - Two instructors (lead, assistant) per lab - Typical Class Size 16  
Lab Instructors for up to three sections - Compensation starts at \$3,000/section (3 units)

**EG372L : Electrical Power II Lab**— Builds on ET/ES371 to develop an understanding of design, construction, operational characteristics, efficiency and maintenance of DC and single- and 3-phase AC machinery, and pulse-width modulation (PWM) and its applications to propulsion and industrial drives. Lab work will emphasize principles of safe and efficient operation, troubleshooting, and installation of electrical machinery and systematic use of measuring equipment. This course supports the marine license program requirements to meet the Standards for Training, Certification and Watchkeeping (STCW). The course may have embedded assessment requirements that must be completed in addition to the class requirements. Prerequisites: MS110 or MS150, ET371 or ES371, PS102 or PS162, CE203 or CO200 or CO201 or CO203. Rec. .5, Lab. 1.5

One two-hour lab per week - Two instructors (lead, assistant) per lab - Typical Class Size 16  
Lab Assistant Instructor for up to four labs - Compensation starts at \$2,000/section (2 units)

**EG481L : Marine Refrigeration & Air Conditioning Lab**— Refrigeration processes encountered in the marine field and industry. Includes the design, operation, and maintenance of the principal refrigeration cycle components, reciprocating and rotary centrifugal compressors, and the

refrigerants used. This course supports the marine license program requirements to meet the Standards for Training, Certification and Watchkeeping (STCW). The course may have embedded assessment requirements that must be completed in addition to the class requirements.

Prerequisite: ET211 or ES201 Rec. .2, Lab. .8

One one-hour lab per week - Two instructors (lead, assistant) per lab - Typical Class Size 12  
Lab Assist Instructor needed for up to four labs - Compensation starts at \$1,000/section (1 unit)

**ET201L : Fluid Power Lab**— An introduction to applied fluid mechanics, including properties, hydrostatic pressure, flow and pressure, flow and pressure measurements, forces on areas, continuity equation, Bernoulli and general energy equations, analysis of piping systems for losses, and pump selection. These principles are applied to a variety of typical engineering problems in fluid systems. This course is designed to develop each student's ability to analyze engineering problems. This course supports the marine license program requirements to meet the Standards for Training, Certification and Watchkeeping (STCW). The course may have embedded assessment requirements that must be completed in addition to the class requirements. Prerequisites: MS101 and CS150 (or equivalent). Rec .5, Lab 1.5

One two-hour lab per week - Two instructors (lead, assistant) per lab - Typical Class Size 16  
Lab Assist Instructor needed for up to four labs - Compensation starts at \$2,000/section (2 units)

**ET452 : Technical Communications** — Extension of the theory and practice of communications tasks of a working engineer or technologist, including engineering proposals and reports; mechanism and process description; instructions, accident or casualty reports; technical specifications; and progress reports. Application of effective visual aids to both oral and written communications will be emphasized. This course supports the marine license program requirements to meet the Standards for Training, Certification and Watchkeeping (STCW). The course may have embedded assessment requirements that must be completed in addition to the class requirements. Rec. 3, Cr. 3.

Three one-hour lectures per week - One instructor per section - Typical Class Size 14  
Lead Instructor needed for up to two sections - Compensation starts at \$3,000/section (3 units)

**ET399: Nuclear Safety Analysis:** This course introduces analytical methods and regulatory principles used to build and defend the safety case for nuclear facilities, including applications in the marine and terrestrial environments. Topics will include application of deterministic and probabilistic safety analysis techniques for hazard analyses, accident scenarios, and the derivation of controls in support of nuclear facilities and operations. Prerequisites: NE201 or NE202.

One three-hour lecture period per week - One instructors per lecture - Typical Class Size 16.  
Instructor needed for one section meeting one evening per week from 7:00-9:50. - Compensation starts at \$3,000/section (3 units)

**ET399 : Nuclear Tech. Changes Gen. 1-4** — This course introduces the nuclear and non-nuclear technological progression of power plants from generation one reactors to the present-day, advanced fourth generation. The focus will be on technological changes that improve nuclear safety, enhance safety culture, introduce engineered safety features, incorporate human machine interface, maximize plant and fuel efficiency, raise human performance, and reduce waste generation. The overall purpose is to give the students an understanding of the nuclear technology design evolution and innovation that is the catalyst for the industry's rapid transformation. Prerequisites: NE201. Rec. 3, Cr. 3.

In addition, the instructor will assist MMA with the development of the Nuclear Engineering Technology degree program (3.0 additional units)

One three-hour lecture period per week - One instructors per lecture - Typical Class Size 16  
Instructor needed for one section meeting one evening per week from 7:00-9:50. Compensation starts at \$6,000 (3.0 units per section and 3.0 units for Nuclear Engineering Technology degree program development assistance)

**ES433L: Control Systems Engineering Lab** - Electromechanical control systems theory and applications to design and analysis of practical marine and industrial electromechanical automation and control systems. Topics include, mathematical modeling of dynamic systems, transient-response analysis, stability analysis, steady-state errors, and PID compensation, and will utilize computer analysis and simulation. This course supports the marine license program requirements to meet the Standards for Training, Certification and Watchkeeping (STCW). Prerequisites: ET432 (Co-requisite for 5 Year MSE students), MS260, Rec. 2, Lab. 2, Cr. 3.

One two-hour lab per week - Two instructors (lead, assistant) per lab - Typical Class Size 16  
Lab Assist Instructor needed for up to two labs - Compensation starts at \$2,000/section (2 units)

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