

MAINE MARITIME ACADEMY

A College of Engineering, Management, Science, and Transportation

Adjunct Instructor Chemistry Laboratory – Spring 2020

POSITION OVERVIEW

The Ocean Studies Department at Maine Maritime Academy invites applications for an Adjunct Laboratory Faculty for a course in Chemical Principles. Applicants must hold an M.S. or Ph.D. in chemistry or a related field by December 2019, or possess a B.S. in a related field with significant teaching experience at the high school or college level. The successful candidate will teach multiple laboratory sections of CH101: Chemical Principles, a one-semester chemistry course for engineering students majoring in Power Engineering Technology, Power Engineering Operations, Marine Engineering Technology, and Marine Engineering Operations. CH101 is designed to give engineering students an appreciation for the role of chemistry in different areas of engineering. Subjects covered include atoms and molecules; moles, stoichiometry, and chemical equations; reactions in aqueous solutions; gases; the periodic table and atomic structure; energy and thermodynamics; reaction kinetics; equilibrium; electrochemistry. Candidates with demonstrated teaching excellence and commitment to undergraduate education are particularly encouraged to apply.

COURSE DESCRIPTION

CH101 - Chemical Principles Laboratory — This is the laboratory portion of a course which examines basic concepts of general chemistry, including: stoichiometry, atomic structure, periodic properties, chemical bonding, states and properties of matter, equilibria, acids and bases, and properties of organic compounds. Rec. 3, Lab. 3, Cr. 4.

TEACHING

The successful candidate will enthusiastically embrace working with undergraduate students in classroom and other settings. Teaching responsibilities include time spent in the classroom; maintaining and improving competence in subjects being taught; preparing contemporary teaching materials; conferring with students on course materials; developing, administering, grading and providing feedback, and assessing written examinations and papers; evaluating presentations; and supervising independent student projects.

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 the undergraduate level laboratories in an introductory survey course in chemistry for engineering majors in MET, MEO, PET and PEO majors.

- Develop learning materials, prepare assessments, and maintain records to monitor student progress, achievement, and attendance.
- Inform students of their progress by promptly returning assignments, quizzes, papers, and exams.
- Participate in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department.
- Maintain one's own continuing professional development.
- Provide advice and support to students.
- Maintain an awareness and enforce fire, health, and safety regulations applicable to the laboratory environment.

ESSENTIAL SKILLS

- Commitment to high-quality teaching and fostering a positive learning environment for all students.
- Excellent interpersonal, organizational, and communication skills.
- Ability to supervise academic work by undergraduate students.
- Ability to manage time and work to strict deadlines.
- Ability to work collaboratively.
- Commitment to continuous professional development.
- Demonstrated integrity and ability to maintain confidentiality.
- Ability to adapt to changing priorities and conditions.
- Ability to write clearly and tailor communication style to meet the needs of the recipient
- Commitment to MMA's policy of equal opportunity and the ability to work harmoniously with colleagues and students of all genders, cultures and backgrounds
- Ability to maintain composure in stressful situations
- High degree of professionalism

MINIMUM QUALIFICATIONS

- Bachelor's degree, or equivalent, from an accredited institution in chemistry or a related field.

SPECIAL CONDITIONS

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