ABET course syllabus (Environmental Engineering)

1. Course number and name
   CE 0901572: Environmental Engineering.

2. Credits and contact hours
   3 Credit Hours.

3. Instructor’s name and contact information
   Husam A. Abu Hajar, Assistant Professor of Civil Engineering.
   Email: h.abuhajar@ju.edu
   Office hours: 10 am – 12 pm (Su, Tu, Th), Civil Engineering Department, 2nd floor.

4. Text book, title, author, and year
     a. other supplemental materials
        - Class notes and handouts.

5. Specific course information
   a. brief description of the content of the course (catalog description)

   b. prerequisites or co-requisites
      CE 0901472 Environmental Engineering Lab(co-requisite).

   c. indicate whether a required, elective, or selected elective course in the program
      Elective for Civil Engineering.

6. Specific goals for the course
   a. specific outcomes of instruction:
      - The student is expected to understand and appreciate the role of the environmental engineer.
      - The student is expected to acquire basic knowledge in environmental problems in natural water, groundwater, air, and soil systems and understand the proposed solutions.
      - The student is expected to evaluate the risk associated with exposure to certain chemicals.
      - The student is expected to understand solid waste and hazardous waste management concepts and provide practical solutions.
      - The student is expected to acquire basic knowledge of the environmental laws and regulations in Jordan.
      - The student is expected to familiarize with contemporary environmental issues.
b. Explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course.

    Course addresses ABET Student Outcome(s): h & j.

7. Brief list of topics to be covered
   • Introduction to environmental engineering.
   • Water pollution in natural water systems.
   • Risk assessment.
   • Solid waste management.
   • Hazardous waste management.
   • Air pollution.
   • Noise pollution.
   • Environmental laws and regulations in Jordan.
   • Contemporary environmental issues.