



MARMARA UNIVERSITY FACULTY OF ENGINEERING ENVIRONMENTAL ENGINEERING DEPARTMENT

ENVE 497/498 ENGINEERING PROJECT PROPOSAL FORM FALL 2017

Instructor: Elif Soyer

Project Title: 'Ion Exchange-Membrane' Integrated Processes for Water Treatment

Proposal No.: ESoyer_2017

Number of Students: 3

Requirements (from students): Students will be required to conduct experiments, analyze the data and present their work once every two weeks. An extended summary of the interpretations and conclusions in a scientific paper format is expected at the end of the study.

Scope of the Project:

The performances of ion exchange and membrane processes (microfiltration and ultrafiltration) will be determined experimentally by planning and conducting integrated tests.

Hardware/Software/Lab/Equipment Requirements:

Membrane filtration system, ion exchange column, shaker, ion selective probe

Development Plan:

- Gathering information about the procedures and methods will be used in this project.
- Choosing and collecting appropriate glassware, chemicals, and equipment.
- Conducting experiments within the scope of experimental matrix
- Interpretation of the results