

**CIV ENGR 890 – PRE-DISSERTATOR'S RESEARCH**

1-9 credits.

Under faculty supervision.

**Requisites:** Declared in Civil and Environmental Engineering PHD or Environmental Chemistry and Technology PHD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2024**Learning Outcomes:** 1. Demonstrate broad knowledge of civil or environmental engineering

Audience: Graduate

2. Integrate knowledge from multiple disciplines to independently develop civil or environmental engineering research hypotheses

Audience: Graduate

3. Design and conduct preliminary research to iteratively test and finalize hypotheses

Audience: Graduate

4. Communicate research results in written and verbal formats

Audience: Graduate

**CIV ENGR 909 – GRADUATE SEMINAR - ENVIRONMENTAL CHEMISTRY & TECHNOLOGY**

1 credit.

Current research in environmental chemistry and technology.

**Requisites:** Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2024**Learning Outcomes:** 1. Demonstrate awareness of historic and/or current advances in environmental chemistry and technology research, practice, policy and/or professional conduct

Audience: Graduate

**CIV ENGR/ATM OCN/BOTANY/ENVIR ST/GEOSCI/ZOOLOGY 911 – LIMNOLOGY AND MARINE SCIENCE SEMINAR**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2024**CIV ENGR 919 – SEMINAR-HYDRAULIC ENGINEERING AND FLUID MECHANICS**

1 credit.

Current research and review of literature in theoretical and applied fluid mechanics and hydraulic engineering.

**Requisites:** Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2024**Learning Outcomes:** 1. Demonstrate awareness of historic and/or current advances in hydraulic engineering and fluid mechanics research, practice, policy and/or professional conduct

Audience: Graduate

**CIV ENGR 929 – SEMINAR-ENVIRONMENTAL ENGINEERING**

1 credit.

Current research and literature on water, wastewater, water pollution control, solid wastes engineering and management.

**Requisites:** Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2024**Learning Outcomes:** 1. Demonstrate awareness of historic and/or current advances in environmental engineering research, practice, policy and/or professional conduct

Audience: Graduate

**CIV ENGR 939 – GEOTECHNICAL ENGINEERING SEMINAR**

1 credit.

Geotechnical analysis, design, and construction.

**Requisites:** Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2024**Learning Outcomes:** 1. Demonstrate awareness of historic and/or current advances in geotechnical engineering research, practice, policy and/or professional conduct

Audience: Graduate

**CIV ENGR 949 – SEMINAR-STRUCTURAL ENGINEERING**

1 credit.

Structural analysis, design, and construction.

**Requisites:** Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2023**Learning Outcomes:** 1. Demonstrate awareness of historic and/or current advances in structural engineering research, practice, policy and/or professional conduct

Audience: Graduate