



June 15, 2020

To: Industry Professional

Re: UNH Senior Capstone Program for
Civil and Environmental Department

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unh.edu/civil-engineering

The Civil and Environmental Engineering department at UNH requires that all graduating seniors participate in our Capstone design experience. This year-long class presents students with an opportunity to work as part of a team to apply engineering, communication, and management skills. At this time, we are contacting companies, municipalities, and public agencies to request proposals for engineering projects for the course. Projects that include multiple engineering disciplines (i.e., structural, geotechnical, environmental, water resources) are strongly encouraged. The project could be one that your firm has completed, is under construction, or entails investigation of potential alternatives for a project being considered. Recent projects undertaken in the course include investigation of a landfill expansion, design of a sewer pump station, an airport runway reconstruction, forensic investigation of a bridge collapse, and an alternatives investigation for a replacement bridge.

If you are interested in participating, we ask that you complete an on-line Project Proposal (https://unh.az1.qualtrics.com/jfe/form/SV_37Yh07AhviaAsNn) for each project. For the purpose of this class, we will refer to those submitting the project proposal as the project “client”. A project may “employ” students from more than one discipline. For example, a roller coaster project may include student teams from structural, environmental, mechanical, and electrical engineering that will work together and share information for the successful completion of the project. A faculty member will be assigned as the technical Project Advisor to work with the client to manage the project. If you do not have a project to propose, but would still like to be involved, there will be faculty proposed projects that would benefit from having a “client”. If you are interested in this role, contact the Capstone Coordinator.

If you have any questions or would like additional information, contact the Capstone Coordinator Tony Puntin (anthony.puntin@unh.edu, (603) 496-1784). The project proposals are due by August 25, 2020 to allow for enough time to compile the projects before fall classes begin.

Best Regards

Erin Santuni Bell, Ph.D., P.E.
Associate Professor and Chair
Department of Civil and Environmental Engineering

Capstone Course Timeline

June/July/August

- Consultants/Agencies (“clients”) submit their project proposal(s).

Fall Semester

Late August – Early September

- Clients will “pitch” their projects to the UNH seniors. This occurs via a 5-minute presentation, either live or virtually.
- Students will be assigned projects based on their submitted preference after the project presentations are complete.
- The student teams will schedule a kick-off meeting (live or virtually) with the client to develop a scope of services and list of deliverable.
- Student submit scope of service and list of deliverable to UNH advisor and review panel.

October – December

- Students develop and submit Preliminary Design Report.
- Students present project to client, project advisor, and review panel.

Spring Semester

February – March

- Students develop and submit updated Preliminary Design Report.

April

- Students present projects at UNH’s Undergraduate Research Conference. Clients encouraged to attend.

May

- Students submit Final Design Report.
- Students make final presentation of their capstone at UNH to UNH advisor, review panel and client.
- Clients provide feedback to faculty advisor on the project Final Design Report and presentation for grade assignment.

Fall and Spring Semesters

September – May

- Students continue project development to address deliverable outlined in the scope of services.
- Clients provide project guidance, information, and support as requested by the students or as they feel is needed to keep the project group on task.
- Project Teams conduct meetings, live or virtual, as appropriate.
- Clients provide feedback, as appropriate, on project submissions.
- Students communicate with client via progress reports on a regular interval as determined by the Project team.