## Fall 2020 CEE 791/891: Reinforced Concrete Design https://courses.unh.edu/class/202010/14172

**Description:** Introduces the design of reinforced concrete structural members by the strength method and considering deflection performance. Includes loads, approximate analyses, slabs, beams, and columns.

Schedule:	MWF 110 PM – 200 PM
	W 210-300PM

Room: HORT 207 HORT 207

Instructor: Raymond A Cook, Ph.D., P.E. ray.cook@unh.edu

## Text book, title author, and year:

Required: ACI 318-19: Building Code Requirements for Structural Concrete and Commentary, *printed (paper) document only*, purchased by students directly through ACI at student member rate of \$99.00. (Do NOT get any other edition of this code and do NOT get a PDF/Web view version of this code.)

Optional: Design of Concrete Structures, Darwin, Dolan, and Nilson (15th Edition)

## **Content Delivery:**

It is currently anticipated that CEE 791/891 will be primarily delivered in a face-to-face format requiring students to have appropriate PPE and to practice proper distancing.

At the same time the class will be broadcast in a synchronous manner, (meaning it will be a live broadcast of what is happening in the classroom). The synchronous broadcast will be recorded for later viewing.

Remote students will have the opportunity to ask questions during class via ZOOM.

Asynchronous videos and other asynchronous material will be made available in the CEE 791/891 Canvas pages.

No matter which delivery format is used, students will be expected to "attend" class and be prepared to ask questions and answer questions. The class is run in an interactive format. Remote students will be required to have a video camera up and running with the video on.

## Assessment:

All assignments will be posted in Canvas as well as links to the recordings of the synchronous broadcasts.

Six to eight homework assignments are anticipated.

A semester-long design project is to be completed by teams of five to six students. Teams will be assigned by the professor.

2 mid-term examinations and 1 final examination are anticipated, the format of which is yet to be determined.

Students will be required to be able to scan or to use a scanner app to convert hand work on paper to .pdf files for submission.

Note: Accommodations for remote administration of any examination will be made on an individual basis following University policies and after timely consultation with course instructor.