



NEW COURSE

FALL 2025

CE 5090-002 (14709) ADV TOPICS IN CIVIL ENGR

PRINCIPLES OF SUBMARINE DESIGN

MONDAYS 12:20PM - 2:50PM, CAST 210

ABOUT THE COURSE

This course provides:

- an understanding of the ***basic*** principles of submarine design in a complex modern multi-platform system
- a general introduction to the operational requirements for submarines and the architecture and technologies to deliver the capability

This course is being offered through the partnership of and collaboration with the **University of Adelaide, Australia**, as part of the broader mission and vision of AUKUS.

COURSE REQUIREMENTS

QUIZZES

assessing foundational submarine design principles

WRITTEN REPORTS

introducing a submarine class and analyzing a real-world submarine accident

PROJECT/PRESENTATION

developing a concept of operations for a new submarine

FINAL EXAM (OPEN BOOK)

evaluating overall understanding and application of course concepts

INSTRUCTOR: RICHARD CHRISTENSON (richard.christenson@uconn.edu)



Enrollment is restricted to graduate and undergraduate students affiliated with NIUVT, permission needed to register.
(undergraduates must be rising juniors or seniors and obtain permission)

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