

# Structural Analysis in Structural Engineering — Graduate Certificate

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The overall objective of the program is to provide interdisciplinary graduate-level education for those seeking advanced professional knowledge and skills in structural analysis, who are not enrolled in a graduate degree program.

This Graduate Certificate Program is built on top of the successful Engineering Online Program within the Samuel Ginn College of Engineering, which was ranked highly in U.S. News and World Reports for Best Online Engineering Programs. It is an on-campus equivalent education program that combines traditional instruction with modern delivery methods to offer graduate studies beyond Auburn's campus.

The program is structured to advance the working engineer's knowledge and skills in the rapidly changing field of structural analysis. It deals with advanced graduate courses related to the structural analysis of a wide variety of structural systems and under both static and dynamic loading. Typical problems include:

- Analysis of complex structural systems for both static and dynamic loading
- Analysis and modeling of structural systems to account for dynamic loading due to wind, seismic and blast loads
- Structural engineering analysis for the repair of existing structures which represents a significant step in the direction of sustainability
- Advanced analysis topics in stability and complex stress analysis

## At a Glance

- The program requires students to take four related graduate courses (12 credit hours).
- Students attending courses online have the same professors as their on-campus peers.
- Students can access lectures online through a live feed or at their convenience via streaming video.
- The online schedule allows for flexibility to maintain a career while completing the program.

## Faculty

Structural Analysis courses in Structural Engineering are taught by Auburn's outstanding civil engineering faculty.