This course is designed to explore some of the most recent developments in the field of bridge engineering, with a focus on the design and construction of highway bridges. Topics include seismic protective systems and retrofitting, bridge preservation strategies, design and analytical software, structural instrumentation and health monitoring, comprehensive bridge information modeling (BrIM), accelerated project delivery, and high performance materials. The course will give students a head start on grasping the most pressing issues and most feasible solutions to problems facing practicing engineers today.

Professor in charge: George C. Lee

"The next generation of bridge engineers will be called on to do more with less to maintain and manage an aging bridge system. New shapes, new materials and new technologies will be the tools needed to accomplish this goal. This course will provide students with insight on what is needed, what is planned and what is underway in these areas."
- Mal Kerley, P.E., Chairman, AASHTO Subcommittee on Bridges and Structures

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"This course offers an opportunity to learn from the experience of a variety of distinguished bridge engineers from around the country."
- Harry A. Capers, Jr. P.E., Vice President & Corporate Bridge Engineer, Arora and Associates, PC (former NJDOT State Bridge Engineer)