

## Description of ARCH 550

### Fall 2025

This course builds on the material included in ARCH 433 such as design of structural steel members subjected to tension, compression, bending, and combined forces. Further, analysis and design of bolted and welded joints, and simple connections is covered.

Also, continued coverage of reinforced concrete slab topics such as design of one-way slab slabs; design of multi-span reinforced concrete beams under pattern loading; deflection of reinforced concrete beams and slabs; development length and bar cut-offs; design of short and slender reinforced concrete columns including biaxial bending.

Prerequisite: ARCH 433