Structures II	Name 1
Arch 324	Name 2
	Name 3

## Steel Beams

## **Description**

This project uses observation to understand how unbraced compression edges and lateral torsional buckling reduce the ultimate load capacity of steel beams.

## Goals

To observe the behavior of unbraced section edges in compression vs tension. To measure capacity loss due to lateral torsional buckling.

## **Procedure**

- 1. Position the U shaped section with the free edges on the upper side of the span.
- 2. Test how many washers the section can support at mid span. Use a wood block to position the load. Observe the mode (how) it fails.
- 3. Repeat the procedure with the section inverted and the free edges downward.
- 4. Compare the load level carried by each orientation of the paper beam and describe the behavior under load.



