Syllabus for Course 14.550, Behavior of Structures			Fall 2015
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Required Text:	Connor, J. J., and Fara Engineering (Springer	ji, S., Fundamentals , 2012)	of Structural

<u>Topics</u>	Reading
Cable Structures	Ch.5
Curved Beams & Arches	Ch. 6
Displacement Calculations	Handouts
Influence Lines & Envelopes	Chs. 2, 3, 13
The Force Method	Ch. 9
The Displacement Method	Ch. 10
Approximate Methods	Ch. 11

Objectives:

The overall objective of this course is to study the behavior of structures such as cables, arches, curved beams, multi-span beams, frames, and trusses under gravity load and taking into account other factors such as support settlement, elastic support, temperature changes, moving loads and the relative stiffness of the members. The course will also cover the classical methods of the analysis of indeterminate structures and the approximate methods for framed structures.

Grading:

Exam #1 (Take-home)	20 %
Exam #2	30%
Exam #3 (Take-home)	20 %
Exam #4	30 %