

Typical Schedule for MSCE in Structural Engineering

This schedule assumes that an entering student has background in

- Structural Analysis (CE2201 or equivalent),
- Structural Design of Steel and Concrete systems (CE3201),
- Matrix Methods course (CE4201),
- and at least one additional senior level structural engineering design course (such as CE4211, CE4221, or CE4231).

Each final schedule is agreed upon by the student and advisor.

Requirements: 30 credits total for MSCE

~ 6 credits – thesis research

~24 credits – course work

Course list (3 credits ea.):

1. CE5201 Adv. Structural Analysis (fall)
2. CE5202 Finite Element Analysis (s)
3. CE5241 Structural Dynamics (f)
4. Senior Level Design choices: (choose one or more)
 - a. CE4211 Reinforced Concrete Design (f)
 - b. CE4221 Steel Design (s)
 - c. CE4231 Timber/Masonry (s)
5. CE4820 Foundation Design
6. Graduate Level Design choices: (choose two or more)
 - a. CE5211 Adv. Reinforced Concrete Design (s)
 - b. CE5212 Prestressed Concrete (s)
 - c. CE5221 Adv. Steel Design (f)
 - d. CE5231 Adv. Timber Design (f)
7. Research or specialty area broadening courses (choose as appropriate)
 - a. CE5102 Adv. Concrete Materials (s)
 - b. CE5243 Probability and Reliability for Engineers (f)
 - c. CE5242 Structural Dynamics II (s)
 - d. ME-EM or Math or other
8. CE5990 CE graduate seminar (1 credit, f, s)

This typical schedule also meets the criteria set forth by the Structural Engineering Institute (SEI) establishing a basic course curriculum and content for structural engineers. (Barnes, C.E., "Education for the Structural Engineer," STRUCTURE Magazine, February 2004, pg. 8-10.)