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.)