

CE 890 Graduate Seminar

SPEAKER: Jeff Gutawsky, (Dr. Peterman's M.S. Distance Learning Student)

TOPIC: "The Structural Design of a Four-Story Health Care Facility"

DATE: April 15, 2009

TIME: 4:00 p.m. (refreshments at 3:45 p.m.)

PLACE: 2144 Fiedler Hall

ABSTRACT

The design of selected members of the structure using the AISC 13th edition specifications for Structural Steel Buildings, the ACI 318 Building Code requirements for Structural Concrete, the ASCE 7 and International Building Code (IBC) in the following design sequence:

- A) Description of the structure and the design loads
- B) Roof beam member design
- C) Typical floor beam member design
- D) Column design
- E) Lateral load determination
- F) Wind and Seismic load application to lateral systems
- G) Lateral system design
- H) Foundation design