ETCC 204. Applied Analysis for Const Tech. 1 Credit. (1 Lab) F,S
PREREQUISITE: M 165Q or M 171Q or M 181Q. Computer applications in
construction technology using contemporary software and solution techniques
appropriate to the construction industry.

ETCC 243. Building Materials and Systems. 3 Credits. (3 Lec)
An introduction to construction building systems including building materials, what
products and materials are used to construct buildings and how buildings are put
together in the construction phase.

ETCC 290R. Undergraduate Research. 1-6 Credits. (1-6 Ind; max unlimited)
F,S
Directed undergraduate research/creative activity which may culminate in a written
work or other creative project. Course will address responsible conduct of research.
May be repeated.

ETCC 291. Special Topics. 1-4 Credits. (1-4 Lec; 12 cr max) On Demand
PREREQUISITE: None required but some may be determined necessary by each
offering department. Courses not required in any curriculum for which there is a
particular one-time need, or given on a trial basis to determine acceptability and
demand before requesting a regular course number.

ETCC 292. Independent Study. 1-3 Credits. (1-3 Ind; 6 cr max) On Demand
PREREQUISITE: Consent of instructor and approval of department head. Directed
study and research on an individual basis.

ETCC 302. Soils and Foundations. 3 Credits. (2 Lec, 1 Lab) F,S
PREREQUISITE: EGEN 201 or EGEN 203. Physical properties of construction
materials with emphasis on soils, aggregates and asphalt. Earth pressures, flow nets,
bearing capacity, retaining walls and slope stability.

ETCC 310. Concrete Technology. 3 Credits. (2 Lec, 1 Lab) S
PREREQUISITE: EGEN 201 or EGEN 203. Properties of concrete constituents,
mechanical and service properties of concrete, mix design, field practices. Concrete
reinforcing requirements and analysis of concrete members.

ETCC 412. Structural Elements. 3 Credits. (3 Lec) F,S
PREREQUISITE: EGEN 205 or EGEN 208. COREQUISITE: ETCC 310. Design
of temporary bracing, shoring, and concrete formwork. Specification requirements
for design loads, wood, and steel elements. Nailed, bolted, and welded connections.

ETCC 490R. Undergraduate Research. 1-4 Credits. (1-4 Ind; 12 cr max) F,S,Su
PREREQUISITE: Consent of instructor. Directed undergraduate research/creative
activity which may culminate in a research paper, journal article, or undergraduate
thesis. Course will address responsible conduct of research. May be repeated.

ETCC 491. Special Topics. 1-4 Credits. (1-4 Lec; 12 cr max) On Demand
PREREQUISITE: Course prerequisites as determined for each offering. Courses
not required in any curriculum for which there is a particular one-time need, or
given on a trial basis to determine acceptability and demand before requesting a
regular course number.

ETCC 492. Independent Study. 1-3 Credits. (1-3 Ind; 6 cr max) F,S,Su
PREREQUISITE: Junior standing, consent of instructor, and approval of
Department Head. Directed research and study on an individual basis.

ETCC 498. Internship. 1-2 Credits. (1-2 Ind; 12 cr max) F,Su
PREREQUISITE: Sophomore standing, consent of instructor, and approval of
Department Head. An individualized assignment arranged with an agency,
business, or other organization to provide guided experience in the field. Students
may not take this course the semester they graduate.

ETCC 499R. Capstone: Const Engin Tech. 2 Credits. (1 Lec, 1 Lab) F,S
PREREQUISITE: ECIV 311, ECIV 309, and EGEN 310R. COREQUISITE:
Student must be graduating the semester of enrollment in ETCC 499R. A senior
capstone course encompassing total project control through introduction of a
professional construction management organization to ensure cost effectiveness and
early completion of a project. Construction safety. A requirement of the course is to
take the Constructor Qualification Examination Level I (CQE) administered by the
American Institute of Constructors (AIC).
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.