ETCC - Engr Tech, Civil & Constr

ETCC 204. Appld 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 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 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. 4 Credits. (3 Lec, 1 Lab) F.S
Lec 3, Lab 1 COREQUISITE: EGEN 205 or EGEN 208 and ERTH 101. 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
Lec 2, Lab 1 PREREQUISITE: EGEN 205 or EGEN 208. 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

ETCC 490R. Undergraduate Research. 1-4 Credits. (1 Ind; 12 cr max) F,S,Su
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) On Demand
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) On Demand
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. 3 Credits. (2 Lec, 1 Lab) F.S
PREREQUISITE: BGEN 361, EGEN 325, and EGEN 310R. COREQUISITE: ECIV 404 and ECIV 405; student must be graduating the semester of enrollment in ETCC 499. 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).