SUMMER 2019 – COURSE OFFERINGS

EM 536 Project Management

Time: Tuesday & Thursday – 11:00 – 1:30 CST – E113
Professor: Dr. Sandra Affare
Sections: 001 CRN 80005 UTSI campus
         003 CRN 80006 UTK Campus
         004 CRN 80007 Distance Education Campus


Development and management of engineering and technology projects. Project proposal preparation; resource and cost estimating; and project planning, organizing, and controlling: network diagrams and other techniques. Role of project manager: team building, conflict resolution, and contract negotiations. Discussion of typical problems and alternative solutions. Case studies and student projects. Recommended Background: Graduate standing in Engineering or Business.

EM 600 Doctoral Research and Dissertation

Professor: Dr. James Simonton CRN 82056
Professor: Dr. Andrew Yu CRN 83458

IE 529 Applications of Linear Algebra in Engineering Systems

Time: Monday, Wednesday & Friday – 9:30 – 10:45 – E111
Professor: Dr. Monty Smith
Section: 001 CRN 80101 (Video Recorded)


Fundamental concepts of linear algebra to problems in engineering systems: steady state and dynamic systems. Geometric and physical interpretations of relevant concepts: least square problems, LU, QR, and SVD decompositions of system matrix, eigenvalue problems, and similarity transformations in solving difference and differential equations; numerical stability aspects of various algorithms; application of linear algebra concepts in control and optimization studies; introduction to linear programming. Computer projects.


Comment(s): Graduate standing or consent of instructor required.