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**THE UNIVERSITY OF TENNESSEE SPACE INSTITUTE  
SUMMER SEMESTER 2010 COURSE LISTINGS**

**ENGINEERING MANAGEMENT**

**EM 501 CAPSTONE PROJECT (3-6)**

SEC. 001 Dr. Gregory Sedrick  
SEC. 002 Dr. Denise Jackson

Application-oriented project to show competence in major academic area. Enrollment limited to Engineering Management students in non-thesis program.

*May be repeated. Maximum 6 hours.*

**EM 502 REGISTRATION FOR USE OF FACILITIES (1-15)**

SEC. 001 Dr. Gregory Sedrick  
SEC. 002 Dr. Denise Jackson

Required for the student not otherwise registered during any semester when student uses university facilities and /or faculty time before a degree in Industrial Engineering (Engineering Management) is completed.

*May not be used toward degree requirements.*

**EM 536 PROJECT MANAGEMENT (3)**

SEC. 001 UTSI students participating at Tullahoma or Oak Ridge  
SEC. 002 UTSI students participating elsewhere  
SEC. 003 UTK students participating at Knoxville DE classrooms  
SEC. 004 UTK students participating elsewhere

Text: [http://www.utsi.edu/academics/ieandem/student\\_services.htm](http://www.utsi.edu/academics/ieandem/student_services.htm)

Time: Tuesday & Thursday 4:00 – 6:35 E113

Professor: Dr. Denise Jackson

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.

*(DE) Prerequisite(s): 537 or consent of instructor.*

**EM 542 DESIGN OF EXPERIMENTS FOR ENGINEERING MANAGERS (3)**

SEC. 001 UTSI students participating at Tullahoma or Oak Ridge  
SEC. 002 UTSI students participating elsewhere  
SEC. 003 UTK students participating at Knoxville DE classrooms  
SEC. 004 UTK students participating elsewhere

Text: [http://www.utsi.edu/academics/ieandem/student\\_services.htm](http://www.utsi.edu/academics/ieandem/student_services.htm)

Time: Tuesday & Thursday 4:00 – 6:35 E111

Professor: Dr. Alberto Garcia

Methodology for experiments in product, service, and process improvements. Factorial experiments, screening designs, variance reduction, and other selected topics for engineering managers. Taguchi philosophy and concepts. Optimization and response surface methods. Case studies. (DE)  
*Prerequisite(s): Industrial Engineering 516.*

**EM 543    LEGAL AND ETHICAL ASPECTS OF ENGINEERING MANAGEMENT (3)**

SEC.    001            UTSI students participating at Tullahoma or Oak Ridge  
SEC.    002            UTSI students participating elsewhere  
SEC.    003            UTK students participating at Knoxville DE classrooms  
SEC.    004            UTK Students participating elsewhere

Text:        [http://www.utsi.edu/academics/ieandem/student\\_services.htm](http://www.utsi.edu/academics/ieandem/student_services.htm)

Time:        Monday & Wednesday        4:30 – 7:00                    E111

Professor:    Dr. Frank W. Steinle, Jr.

Legal aspects imposed by government and ethical considerations in engineering practice. Selected readings, lecture, discussion, and student presentations. Current topics from government and industry.

**INDUSTRIAL ENGINEERING**

**IE 500    MASTER'S THESIS (1-15)**

SEC.    006            Dr. Gregory Sedrick  
SEC.    002            Dr. Denise Jackson