

ENGINEERING & SCIENCE (ENGR)

ENGR 502 Microcomputer Wordprocessing	1 Credit hour		
ENGR 503 Microcomputer Telecommunicati	1 Credit hour		
ENGR 504 Microcomputer Database Appl	1 Credit hour		
ENGR 509 Microcomputer Applications	3 Credit hours		
ENGR 511 Technical Seminars	3 Credit hours		
ENGR 570 Finite Elements	3 Credit hours		
Theory and applications of the finite element method to problems in the area of static and dynamic structural analysis, heat transfer, fluids, and analogous solution.			
Attributes: No Textbook Required			
Grade Mode: Normal Grading Mode			
ENGR 610 Applied Statistics	3 Credit hours		
Practical application of statistical techniques to decision-making, forecasting, optimization, experimental design. Interpretation of data using central tendency and dispersion, t-test, F-test, variance analysis, correlation, and linear regression.			
Grade Mode: Normal Grading Mode			
ENGR 620 Computer Applications	3 Credit hours		
Introduction to current software technology to solve problems of interest to technical professionals. Covers the use of tables, databases, modeling, curve fitting, and solution of equations.			
Grade Mode: Normal Grading Mode			
ENGR 650 Special Topics	1-4 Credit hours		
Formal study of engineering topics of current interest. (PR: Consent)			
Grade Mode: Normal Grading Mode			
ENGR 651 Special Topics	1-4 Credit hours		
Formal study of engineering topics of current interest. (PR: Consent)			
Grade Mode: Normal Grading Mode			
ENGR 652 Special Topics	1-4 Credit hours		
Formal study of engineering topics of current interest. (PR: Consent)			
Grade Mode: Normal Grading Mode			
ENGR 653 Special Topics	1-4 Credit hours		
Formal study of engineering topics of current interest. (PR: Consent)			
Grade Mode: Normal Grading Mode			
ENGR 670 Advanced Stress Analysis	3 Credit hours		
Three-dimensional stress and strain, failure criteria, advanced topics in structural mechanics, energy methods, introduction to the theory of elasticity, fundamentals of fracture mechanics.			
Grade Mode: Normal Grading Mode			
ENGR 682 Research	1-6 Credit hours		
Completion of research under the supervision of a faculty member. Six semester hours of credit in research are applied toward the Thesis Option in the engineering MS degrees.			
Grade Mode: Credit/No Credit Grade Only			
ENGR 685 Independent Study	1-4 Credit hours		
An approved study of special interest concerning engineering under the supervision of a faculty member. (PR: Consent)			
Grade Mode: Normal Grading Mode			
ENGR 686 Independent Study	1-4 Credit hours		
An approved study of special interest concerning engineering under the supervision of a faculty member. (PR: Consent)			
Grade Mode: Normal Grading Mode			
ENGR 687 Independent Study	1-4 Credit hours		
An approved study of special interest concerning engineering under the supervision of a faculty member. (PR: Consent)			
Grade Mode: Satisfactory/Unsatisfactory			
ENGR 688 Independent Study	1-4 Credit hours		
An approved study of special interest concerning engineering under the supervision of a faculty members. (PR: Consent)			
Grade Mode: Normal Grading Mode			
ENGR 695 Internship in Engineering	3 Credit hours		
Supervised on-the-job experience. The student will work in a technology or engineering company or department with an organization. (PR: Permission)			
Grade Mode: Credit/No Credit Grade Only			
ENGR 699 Comprehensive Project	3 Credit hours		
Completion of comprehensive project under the supervision of a faculty member. Includes final written submittal and public oral presentation. Fulfills engineering MS requirement for Project Option.			
Attributes: No Textbook Required			
Grade Mode: Normal Grading Mode			
ENGR 701 Research Methods for Doc	3 Credit hours		
An overview of research methodology, including basic concepts employed in quantitative and qualitative research, defining research problems, collecting, analyzing, recording, and interpreting data to prepare a proposal.			
Grade Mode: Credit/No Credit Option			
ENGR 702 Dissertation Research	1-12 Credit hours		
This course is to develop a dissertation with substantial research to contribute to the field of study under the supervision of a dissertation advisor and dissertation committee.			
Pre-req: ENGR 701 with a minimum grade of C.			
Grade Mode: Credit/No Credit Option			