

ENGINEERING (ENGRG)

ENGRG 5030 Linear Algebra 3 Credits

This course is an online introductory course in linear algebra. This foundation course is designed to prepare a student for study in the Master of Science in Engineering program. Matrices, systems of equations, determinants, eigenvalues, eigenvectors, vector spaces, linear transformations, and diagonalization. This course is not appropriate for students seeking a MS or MA degree in mathematics. Credit may be earned for only one of MATH 3230 or ENGRG 5030.

Components: Class

Prereqs/Coreqs: P. MATH 2740 with a grade of "C-" or better. Credit may be earned for only one of MATH 3230 or ENGRG 5030

ENGRG 6050 Applied Statistics 3 Credits

This course is an online introductory course in statistics. This foundation course is designed to prepare a student for study in the Master of Science in Engineering program or the Master of Science in Project Management program. This course will cover basic concepts of probability, discrete and continuous random variables, confidence intervals, hypothesis testing, and applications of statistics including simple linear regression, multiple regression, basic design of experiments and ANOVA. This course is not appropriate for students seeking a MS or MA degree in mathematics.

Components: Class

Prereqs/Coreqs: P. MATH 2740 with a grade of "C-" or better

ENGRG 7930 Special Topics in Engineering 1-3 Credits

Various engineering topics will be explored. Topics vary.

Components: Class

ENGRG 7980 Independent Study in Engineering 1-3 Credits

Students registering for independent study must submit, at or before registration, a description and timetable for completion, signed by both the instructor supervising the independent study and the student. The project must be above and beyond the student's traditional employment requirements. This is to be a graduate level experience, conducted with graduate rigor and culminating in a document of professional quality. The maximum allowable Independent Study credits will be four (4) within the Master of Science in Engineering program and a maximum of three (3) may be taken at any one time.

Components: Independent Study