ENGINEERING (ENGR)

ENGR 4101 Special Topics 1 Credit
Department: College of Engineering
An investigation into specialized areas of engineering under the guidance of a faculty member. This course may be repeated for credit when topics of investigation differ.
May be Repeated for a maximum of 6 hours
Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS

ENGR 4201 Special Topics 2 Credits
Department: College of Engineering
An investigation into specialized areas of engineering under the guidance of a faculty member. This course may be repeated for credit when topics of investigation differ.
May be Repeated for a maximum of 4 hours
Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS

ENGR 4301 Special Topics 3 Credits
Department: College of Engineering
An investigation into specialized areas of engineering under the guidance of a faculty member. This course may be repeated for credit when topics of investigation differ.
May be Repeated for a maximum of 18 hours
Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS

ENGR 4306 Engineering Internship I 3 Credits
Department: College of Engineering
Internship opportunity provides experience in the practice of engineering for undergraduate students. Its purpose is engineering career development.
May be Repeated for a maximum of 15 hours
Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS

ENGR 4307 Engineering Internship II 3 Credits
Department: College of Engineering
Internship opportunity provides experience in the practice of engineering for undergraduate students. Its purpose is engineering career development.
May be Repeated for a maximum of 15 hours
Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS

ENGR 5101 Special Topics 1 Credit
Department: College of Engineering
An investigation into specialized study in advanced areas of engineering under guidance of a faculty member. This course may be repeated for credit when topics of investigation differ.
May be Repeated for a maximum of 2 hours
Restriction(s):
Undergraduate level students may not enroll.
Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS

ENGR 5301 Special Topics 3 Credits
Department: College of Engineering
An investigation into specialized study in advanced areas of engineering under guidance of a faculty member. This course may be repeated for credit when topics of investigation differ.
May be Repeated for a maximum of 18 hours
Restriction(s):
Undergraduate level students may not enroll.
Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS

ENGR 5306 Engineering Internship I 3 Credits
Department: College of Engineering
Internship opportunity provides experience in the practice of engineering for graduate students. Its purpose is engineering career development.
May be Repeated for a maximum of 0 hours
Restriction(s):
Undergraduate level students may not enroll.
Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS

ENGR 5307 Engineering Internship II 3 Credits
Department: College of Engineering
Internship opportunity provides experience in the practice of engineering for graduate students. Its purpose is engineering career development.
May be Repeated for a maximum of 15 hours
Restriction(s):
Undergraduate level students may not enroll.
Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS

ENGR 5331 Engineering Communication & Ethics 3 Credits
Department: College of Engineering
This course introduces code of ethics in engineering practices and research activities. Also will be covered are writing of formal and informal technical reports, plagiarism in writing, oral presentation, use of visual aids and professional communication in job search and technical dissemination.
Restriction(s):
Undergraduate level students may not enroll.
Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS

ENGR 5332 Statistical Principles in Engineering 3 Credits
Department: College of Engineering
This course cover the role and application of statistics in engineering. Topics include data analysis, random variables and probability distributions, hypothesis tests, regression, multivariate analysis, experimental design and simple statistical quality control.
Prerequisite(s): MATH 2413 and MATH 2414
Restriction(s):
Undergraduate level students may not enroll.
Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS
ENGR 5333 Mathematical Principles in Engineering 3 Credits  
Department: College of Engineering  
The course covers selected topics of advanced engineering mathematics and their applications to engineering. Topics include analytical and numerical solutions of ordinary and partial differential equations, vector differential calculus and integral theorems, and application of model software packages for solving mathematical problems in engineering.  
Prerequisite(s): MATH 2413 and MATH 2414 and MATH 3301  
Restriction(s):  
Undergraduate level students may not enroll.  

Grade Mode(s): Standard Letter, Registrar do not use FN, Registrar do not use FS

ENGR 5390 Thesis 3 Credits  
Department: College of Engineering  
Open to students in the thesis option. Independent, applied research that addresses a significant problem in engineering supervised by a member of the engineering graduate faculty. Course is scheduled only with consent of the supervising professor, thesis committee, the department chair and college dean. Credit is assigned when the thesis is completed and filed with the college of graduate studies.  
Restriction(s):  
Undergraduate level students may not enroll.  

Grade Mode(s): Satisfactory/Unsatisfactory, Registrar do not use FN, Registrar do not use FS, Thesis/Dissertation

ENGR 5391 Thesis 3 Credits  
Department: College of Engineering  
Open to students in the thesis option. Independent, applied research that addresses a significant problem in engineering supervised by a member of the engineering graduate faculty. Course is scheduled only with consent of the supervising professor, thesis committee, the department chair and college dean. Credit is assigned when the thesis is completed and filed with the college of graduate studies.  
May be Repeated for a maximum of 18 hours  
Restriction(s):  
Undergraduate level students may not enroll.  

Grade Mode(s): Satisfactory/Unsatisfactory, Registrar do not use FN, Registrar do not use FS, Thesis/Dissertation

ENGR 6603 Engineering Dissertation I 6 Credits  
Department: College of Engineering  
An Engineering Doctoral dissertation preparation course  
Prerequisites: Approval of Dissertation Committee  
Restriction(s):  
Undergraduate level students may not enroll.  

Grade Mode(s): Satisfactory/Unsatisfactory, Registrar do not use FN, Registrar do not use FS

ENGR 6604 Engineering Dissertation II 6 Credits  
Department: College of Engineering  
An Engineering Doctoral dissertation preparation course  
Prerequisites: Approval of Dissertation Committee  
May be Repeated for a maximum of 18 hours  
Restriction(s):  
Undergraduate level students may not enroll.  

Grade Mode(s): Thesis/Dissertation, Registrar do not use FN, Registrar do not use FS, Satisfactory/Unsatisfactory