DEPARTMENT OF ENGINEERING

COLLEGE OF ARTS AND SCIENCES

Faculty will have been introduced to calculus in high school.
These courses are combined with engineering courses
and Denoutreent Chair, D.C. Missission: Chate UnitO.ILMIV prepare the student for a successful professiona
M.B.A., Colorado State University Ph.D., Vanderbaneering career. Students who do not have the
University P.E. appropriate math and science background will be carefully
advised to take the proper courses to build the required
D V (2001). Professor and Director of Accredit #binn dation. This track will require approximately years
B.S. and M.S., University of Illinois in Chicago M.Soandish, instead of a usual 4 years.
Ph.D., New Jersey Institute of Technology P.E., CEM.The engineering major must complete all General Core
B (2006). Associate Professor of Engineering. B (2006). Associate Professor of Engineering. B C M E and M C M E Bose Hulman Institute major must also complete the BSE Specific Core comprised
B.S.W.F. AND W.S.W.F. KOSE-HUIMAN INSTITUTE OT
Technology Ph.D., Northwestern University P.E. CSC 2 (3) CHE 113 (2) and PHY 231-32 (10).
G P (2010). Assistant Professor of Engineeri Fig e student with an acceptable bachelors degree
B.A., Samford University B.S. and M.S., Washingthing the BSE as his second baccalaureate will complete
University Ph.D., University of Colorado at Boulder, 111, MAT 211 and the BSE Specific Core as
prerequisites to the major as well the major requirements
R S S (2004). Associate Professor B scribed below.
Engineering. B.S., Hardin-Simmons University M.S.,
Texas A&M University Ph.D., University of Illinois- Champaign P.F. Engineering Major
Requirements—61 hours
Objectives I M 47 C A.EGR 101, 10, 109, 210, 240, 2 0, 261, 262
1. Graduates will make contributions through engin le frif y330, 342, 360, 3 practice, graduate school, or other professional p GrEGills 4 , 491, 492, 498
2. Graduates will solve problems through invertient E C 14
thinking. A.EGR 320, 3 2, 38
3. Graduates will participate in continuing educati 8 rEGR 4 0, 4 6
4. Graduates will exemplify Christian principle Fand E C 14
ethical standards. A.EGR 361, 39 (3)
B.EGR 40 , 416
Curriculum
where the second second second of Majors

Union offers the Bachelor of Science in Engine Assessment of Majors BSE, with concentrations in electrical and mechadissessment of majors culminates with the Fundamentals engineering. in Engineering (FE) exam taken during the senior year. The

Students begin their preparation for engine destg by pared by the National Council of Examiners for enrolling in prerequisites and introductory englingeraging and Surveying, is administered by the State courses in the Fall Semester, assuring them an adeimakessee as the first step toward becoming a licensed foundation for engineering. These prerequisite profestile nal engineer. Throughout the program, however, the students with a strong background in the physical sulent is monitored by a portfolio tracking system to ensur and mathematics, as well as the humanities. Intrashingvill have attained all expected educational outcomes. students are expected to have completed the necessary

requirements that will allow them to begin mathematics at the level of calculus. Ideally, engineering students

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Course Offerings in Engineering (EGR)

() Hours Credit FFall, WWinter SSpring SuSummer

101 I E D

A 2 F

Provides an overview of the engineering profession, including technical and legal responsibilities, the design and analysis method, and application of the engineering process to problem solving.

105 E G 3 S

Graphical communication methods through one of the widely used software packagesProE covers 2-D projec tions and views, 3-D surface and solid modeling, and general concepts such as object dimensions and tolerances.

109 I M C

P 2 F, S

Introduces computer programming using Matlab as a

385 E C 3 F

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