Degree Requirements
Bachelor of Science Engineering
2018-2019 Catalog

Name ___________________________
Semester Enrolled ________________

Henderson Seminar: (1 Hour)
___ GEN 1031 Henderson Seminar (freshmen only)

Freshman English/Writing: (6 Hours)
___ ENG 1463 Freshman English A
___ ENG 1473 Freshman English B
Or
___ ENG1803 Honors Freshmen English

Communication: (3 Hours)
___ COM 2013 Oral Communication

Physical Well-Being (1 Hour)
Choose one:
___ HPR 1011 Life Fitness Concepts
___ HPR ___ 1 P.E. Activity

Fine Arts and Humanities: (6 Hours)
Choose one:
___ ENG 2013 World Literature I
___ ENG 2023 World Literature II
___ ENG 2053 Studies in Literature
Choose one:
___ ART 2033 Humanities Art
___ MUS 2033 Humanities Music
___ THA 2033 Humanities Theatre
___ HUM 2093 Fine Arts: Honors
___ HUM 2603 Humanities: Studio Art

Social Science: (9 Hours)
Choose one:
___ HIS 1013 World Civilization to 1660
___ HIS 1023 World Civilization since 1660
___ HIS 1043 World Civilization since 1660-Honors
Choose one:
___ HIS 2053 U.S. United States to 1877
___ HIS 2063 U.S. United States since 1877

Choose one:
___PSC 1013 American National Government

Natural Sciences (8 hours)
___ BIO 1013/1021 Intro to Biology and Lab
___ CHM 1014 University Chemistry I

Nonwestern Culture: (3 Hours)
___ PHY 4293 Nonwestern Cosmology

Writing across the Curriculum: (3 Hours)
Choose one:
___ ENG 3313 University Writing
___ ENG 4453 Advanced Composition
___ ENG 3613 Technical Writing

Writing Intensive (WI) Requirement:
Must pass with a grade of “C” or better

Mathematics
___ MTH 1294 Calculus I (satisfies Math LAC)
___ MTH 2044 Calculus II (satisfies Core LAC)
___ MTH 3104 Calculus III
___ MTH 3124 Differential Equations

Physics
___ PHY 2234 University Physics I
___ PHY 2244 University Physics II
___ PHY JR/SR 3-Hour Elective
___ PHY JR/SR 3-Hour Elective

Engineering
___ EGR 1413 Engineering Graphics
___ EGR 2033 Mechanics of Materials
___ EGR 2253 Engineering Computation
___ EGR 2363 Statics
___ EGR 2584 Electric Circuits I
___ EGR 3043 Engineering Thermodynamics I
___ EGR 3434 Digital Electronics
___ EGR 3474 Electronics I
___ EGR 3493 Dynamics
___ EGR 4443 Embedded Microprocessors
___ EGR 4513 Fluid Mechanics
___ EGR 4523 Engineering Electromagnetics
___ EGR 4543 Engineering Measurements
___ EGR 4263 Engineering Design I
___ EGR 4553 Engineering Design II

Choose one of the following
___ EGR 3114 Strength of Materials
___ EGR 3464 Electric Circuits II
___ EGR 3484 Electronics II

Choose one of the following
___ EGR 3053 Engineering Thermodynamics II
___ EGR 3143 Signals and Systems
___ EGR 3503 Engineering Optics
___ EGR 4123 Heat Transfer
___ EGR 4133 Power Systems
___ EGR 4563 Control Systems

Mathematics Course Selection

Recommendations

- If Math ACT >= 30 enroll in MTH 1294 Calculus I.
- If 23 < Math ACT < 30, enroll in MTH 1273 PreCalculus and MTH 1253 Plane Trigonometry
- If 20 <= Math ACT <=23, enroll in MTH 1243 College Algebra and MTH 1253 Plane Trigonometry

These are recommendations and can be adjusted on a case-by-case basis; however, caution is advised. If in doubt, take the time to talk to the Chair or another advisor.

Revision: 23 January 2019