

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

____ PSC 1013 American National Government

Choose one:

____ ANT 2013 Intro to Cultural Anthropology

____ ECO 2013 Macroeconomics

____ ECO 2023 Microeconomics

____ GEO 1023 Intro to Geography

____ GEO 2163 World Geography

____ PSC 1023 State and Local Government

____ PSY 1013 General Psychology

____ PSY 1073 General Psychology – Honors

____ SOC 1013 Intro to Sociology

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 $23 < \text{Math ACT} < 30$, enroll in MTH 1273 PreCalculus and MTH 1253 Plane Trigonometry
- If $20 \leq \text{Math ACT} \leq 23$, 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.