

ENGINEERING SCIENCE, BACHELOR OF ARTS

College: College of Science and Health

Department: Physical Science

Student Type: Traditional Undergraduate

Degree: Bachelor of Arts

Campus: Lisle Campus

Requirements - Major

Engineering Science majors are required to complete the engineering core program:

Code	Title	Hours
ENGR 1100	Introduction to the Engineering Profession	1
ENGR 1110	Engineering Design	3
ENGR 1120	Engineering Graphics	2
ENGR 2220	Statics	3
ENGR 3221	Dynamics	3
or ENGR 3264	Electronics	
3000 level or higher engineering elective		3
MATH 2210	Calculus I	4
or MATH 1170	Introduction to Calculus I	
& MATH 2200	and Applications of Calculus I	
MATH 2211	Calculus II	4
MATH 2212	Calculus III	4
MATH 2260	Differential Equations	4
PHYS 2205	University Physics I Laboratory	1
PHYS 2206	University Physics II Laboratory	1
PHYS 2207	University Physics III Laboratory	1
PHYS 2211	University Physics I	3
PHYS 2212	University Physics II	3
PHYS 2213	University Physics III	3
PHYS 3208	Modern Physics Laboratory	1
PHYS 3214	Modern Physics	3
CHEM 1113	General Chemistry I	3
or CHEM 1127	Honors General Chemistry	
CHEM 1115	Honors General Chemistry I Laboratory	1
or CHEM 1114	General Chemistry I Laboratory	
CMSC 2200	Computer Programming	3
3000 level or higher elective		3
4000 level or higher elective		3
4000 level Internship/Research/Advanced Lab course		3
Total Hours		63

All grades must be "C" or better. Students majoring in Engineering Science may not earn a degree in Physics.

Objectives

Students in the Engineering Science program will achieve the following student learning outcomes (SLO):

Student Learning Outcome 1: Students completing Benedictine University engineering classes will demonstrate knowledge in concepts of engineering.

- University SLO: 1. Disciplinary Competence and Skills

Student Learning Outcome 2: Benedictine University engineering science students will demonstrate the ability to solve problems using engineering principles.

- University SLO: 2. Critical and Creative Thinking Skills

Student Learning Outcome 3: Benedictine University engineering science students will be engaged with engineering outside of the classroom.

- University SLO: 3. Communication Skills

Admissions

Progression in the Engineering Science Program

A student will progress in the Engineering Science program by completing the introductory sequence of PHYS 2211 University Physics I, PHYS 2212 University Physics II, MATH 2210 Calculus I and MATH 2211 Calculus II with a GPA of 2.500 or above and a grade of "C" or better in each of these courses. A transfer student must meet these requirements through equivalent transfer courses. Additionally, a transfer student must earn a GPA of 2.500 or above in all major classes (excluding labs) during the first semester at Benedictine in order to progress in the Engineering Science program. Acceptance into the Engineering Science program does not indicate a student is accepted to the Benedictine University-IIT Joint Engineering Program. A separate application for acceptance into the Joint Engineering Program is required after students have gained admission to the general Benedictine Engineering Science program.

If it is determined at any time that a student cannot progress in the Benedictine Engineering Science program or cannot graduate with an Engineering Science degree, the student will be required to change their major and seek academic advising outside of that program.