

ENGINEERING MAJOR, BACHELOR OF SCIENCE (4- YEAR PROGRAM)

Requirements for a Bachelor of Science in Engineering include:

Code	Title	Credits
Required Math and Science Supporting Courses		
CHEM 231	General Chemistry I	4
MATH 235	Calculus I	4
MATH 236	Calculus II	4
MATH 237	Calculus III	4
MATH 333	Differential Equations	4
PHYS 231	Introductory Physics I	4
PHYS 232	Introductory Physics II	4
PHYS 334	Computer Modeling of Physical Systems	2
Required Core Engineering Courses		
ENGR 101	Introduction to the Engineering Profession	1
ENGR 201	Engineering Mechanics 1 - Statics	4
ENGR 202	Engineering Mechanics 11 – Dynamics	4
ENGR 204	Innovative Design in Engineering	4
ENGR 302	Engineering Systems Analysis	2
ENGR 394	Engineering Ethics Capstone	2
ENGR 451	Senior Design I	4
ENGR 452	Senior Design II	2
Concentration Courses		22
Total Credits		75

The Concentration in Mechanical Engineering is a 22-credit concentration that can be taken as part of the Bachelor of Science in Engineering.

Code	Title	Credits
Mechanical Engineering Concentration Courses		
ENGR 131	Engineering Graphics and Computer Aided Design	4
ENGR 223	Strength of Materials	4
ENGR 225	Materials Science	4
ENGR 346	Fluid Mechanics	4
ENGR 348	Thermodynamics & Heat Transfer	4
Mechanical Engineering Concentration Electives (choose 1 course)		2
ENGR 323	Design of Machine Elements	
ENGR 325	Mechanics of Solids	
Total Credits		22