

Mechanical Engineering (BSME) Degree Approved **SCIENCE Technical** Elective List as of Fall 2020

Approved **Science Electives** (Science/Tech Elective)

BIOL K101	Concepts of Biology I	5
BIOL K103	Concepts of Biology II	5
BIOL N217	Physiology	5
CHEM C106	Principles of Chemistry II	3
CHEM C310	Analytical Chemistry	3
CHEM C341	Organic Chemistry I	3
CHEM C360	Elementary Physical Chemistry	3
PHYS 330	Intermediate Electricity and Magnetism	3
PHYS 342	Modern Physics	3
PHYS 400	Physical Optics	3
PHYS 442	Quantum Mechanics	3
CSCI 240	Computing II	4
CSCI 242	Computing II for Engineers	2
CSCI 265	Advanced Programming	3
CSCI 300	Systems Programming	3
CSCI 362	Data Structures	3
CSCI 414	Numerical Methods	3
MATH 351	Elementary Linear Algebra	3
MATH 510	Vector Calculus	3
MATH 511	Linear Algebra with Applications	3
MATH 520	Boundary Value Problems of Differential Equations	3
MATH 525	Introduction to Complex Analysis	3
MATH 526	Principles of Mathematical Modeling	3
MATH 537	Applied Mathematics for Scientists and Engineers I	3
MATH 528	Adv Mathematics for Engineering and Physics II	3