

Mechanical (Petroleum) Engineering

FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
AME 101	ITP 168	AME 201	AME 204	AME 301	AME 302	AME 408	AME 331
ENGR 102	PHYS 151L	PHYS 152L	AME 310	AME 341aL	AME 308	AME 441aL	AME 409
MATH 125	MATH 126	MATH 226	MATH 245	MASC 310	AME 309	PTE 461	TECHNICAL ELECTIVE
CHEM 105aL or MASC 110L	WRIT 150	GEN ED	PHYS 153L	PTE 463L	AME 341bL	PTE 465L	GEN ED
GEN ED	GEN ED	OPTIONAL ELECTIVE	GEN ED	WRIT 340	PTE 464L	GEN ED	OPTIONAL ELECTIVE
OPTIONAL ELECTIVE				OPTIONAL ELECTIVE	OPTIONAL ELECTIVE	OPTIONAL ELECTIVE	

ENGINEERING

AME 101L: Intro. to Mechanical Engr. & Graphics
AME 201: Statics
AME 204: Strength of Materials
AME 301: Dynamics
AME 302: Dynamic Systems
AME 308: Comp. Aided Analyses for Aero-Mechanical Design
AME 309: Dynamics of Fluids
AME 310: Engineering Thermodynamics I
AME 331: Heat Transfer
AME 341aL: Mechoptronics Laboratory I & II
AME 408: CAD of Mechanical Systems
AME 409: Senior Design Project
AME 441aL: Senior Projects Laboratory
ENGR 102: Engineering Freshman Academy
ITP 168: Introduction to MATLAB
PTE 461: Formation Data Sensing with Well Logs
PTE 463L: Intro. to Transport Process in Porous Media
PTE 464L: Modeling & Simulation of Subsurface Flow Systems
PTE 465L: Drilling Tech. & Subsurface Methods
MASC 310: Materials Behavior & Processing
TECHNICAL ELECTIVES: Specialized upper division courses you choose for your major/specialization.

MATHEMATICS

MATH 125: Calculus I
MATH 126: Calculus II
MATH 226: Calculus III
MATH 245: Mathematics of Phys. & Engr.

SCIENCE

CHEM 105aL: General Chemistry or **MASC 110L:** Materials Science
PHYS 151L: Mechanics & Thermodynamics
PHYS 152L: Electricity & Magnetism
PHYS 153L: Optics & Modern Physics

GENERAL EDUCATION

As a USC Viterbi student your General Education (Gen Ed) curriculum will include courses in the Arts, Humanistic Inquiry and Social Analysis.

WRITING

WRIT 150: Writing & Critical Reasoning
WRIT 340: Advanced Writing

ELECTIVES

Your optional electives are one way to build engineering+ into your curriculum by choosing classes of interest to you.



Courses with this symbol may be satisfied with certain AP, IB or A-Level exams. With each requirement you replace with prior credit, you increase your optional electives, creating more flexibility for you to pursue additional electives and increase your engineering+ education.

This is a simplified version of a complex curriculum with options and choices made between advisor and student. Course choices can vary by semester and adjust to include relevant topics and materials. Although every attempt has been made to ensure accuracy, the program requirements listed in the USC Catalogue supersede any information which may be contained in this or any other publication of any school or department. The information found in this document is not intended for advising purposes. The University reserves the right to change its policies, rules, regulations, requirements and course offerings at any time.