Mechanical (Petroleum) Engineering

**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 341abL: Mechoptronics Laboratory I & II  
AME 408: CAD of Mechanical Systems  
AME 409: Senior Design Project  
AME 410abL: 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.

**MATHMATICS**

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.