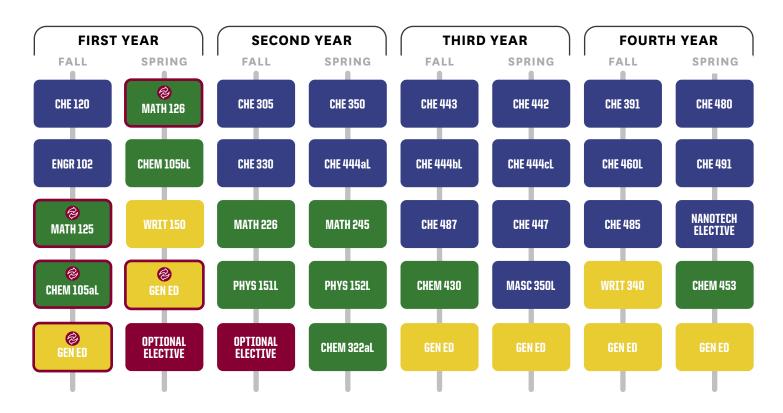
Chemical (Nanotechnology) Engr.



ENGINEERING

CHE 120: Introduction to Chemical Engineering

CHE 305: Numerical & Statistical Analysis

CHE 330: Chemical Engineering Thermodynamics **CHE 350:** Introduction to Separation Processes

CHE 391: Intro. to Nanotechnology Research

CHE 442: Chemical Reactor Design

CHE 443: Viscous Flow

CHE 444aL: Chemical Engineering Lab **CHE 444bL:** Chemical Engineering Lab

CHE 444cL: Chemical Engineering Lab

CHE 447: Heat & Mass Transfer in Chemical

Engineering Processes

CHE 460L: Chemical Process Dynamics & Control

CHE 480: Chemical Process & Plant Design

CHE 485: Computer-Aided Chemical Process Design

CHE 487: Nanotechnology & Nanoscale Engineering

through Chemical Processes

CHE 491: Nanotechnology Research for

Undergraduates

ENGR 102: Engineering Freshman Academy **MASC 350L:** Nanostructured Materials: Design,

Synthesis, & Processing Design

NANOTECH ELECTIVE: Specialized upper division course 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 105abL: General Chemistry **CHEM 322aL:** Organic Chemistry

CHEM 430: Physical Chemistry: Thermodynamics

& Kinetics

CHEM 453: Advanced Inorganic Chemistry PHYS 1511: Mechanics & Thermodynamics PHYS 1521: Electricity & Magnetism

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, reaulations, requirements and course offerings at any time.

