# Suggested Course Plan for a UC Riverside Major in Chemical Engineering (Chemical Engineering Option)
(Catalog Year 2010)

## Fall Quarter
- CEE 010 (2)  
  Intro to Engineering  
- CHEM 001A/01LA (5)  
  General Chemistry  
- ENGL 001A (4)  
  English Composition  
- MATH 009A (4)  
  First Year Calculus

## Winter Quarter
- CHEM 001B/01LB (5)  
  General Chemistry  
- ENGL 001B (4)  
  English Composition  
- MATH 009B (4)  
  First Year Calculus  
- PHYS 040A (5)  
  Physics (Mechanics)

## Spring Quarter
- CHEM 001C/01LC (5)  
  General Chemistry  
- ENGL 001C or Alternate* (4)  
  English Composition  
- MATH 009C (4)  
  First Year Calculus  
- PHYS 040B (5)  
  Physics (Heat/Waves/Sound)

## Second Year
- CHE 110A (3)  
  Chemical Process Analysis  
- CHEM 112A (4)  
  Organic Chemistry  
- MATH 046 (4)  
  Differential Equations  
- PHYS 040C (5)  
  Physics (Electricity/Magnetism)

## Third Year
- BIOL 005A/05LA (5)  
  Cell Biology  
- CHE 114 (4)  
  Applied Fluid Mechanics  
- ENGR 118 (5)  
  Engineering Modeling & Analysis  
- BREADTH (4)  
  Humanities/Social Sciences

## Fourth Year
- CHE 117 (4)  
  Separation Processes  
- CHE 160B (3)  
  Chemical Engineering Lab  
- TECHNICAL ELECTIVE (4)  
  **See List on Back  
- BREADTH (4)  
  Humanities/Social Sciences

## Notes
- Humanities/Social Sciences courses fulfill breadth requirements specific to the College of Engineering. A list of approved Breadth courses is available on the College of Engineering Student Academic Affairs website: [http://student.engr.ucr.edu/](http://student.engr.ucr.edu/).
- * Consult with your assigned Academic Advisor for alternate course choices to fulfill the third quarter of English Composition.
- **Technical Electives are courses in Chemical Engineering which explore specific topics. A list of Technical Electives is available on the back of this Course Plan.
Chemical Engineering – Chemical Option
Technical Electives

Twelve (12) units of technical electives chosen from

CEE 132: Green Engineering
CEE 135: Chemistry of Materials
CHE 102: Catalytic Reaction Engineering
CHE 136: Advanced Topics in Heat Transfer
CHE 171: Pollution Control
ENVE 120: Unit Operations and Processes
ENVE 133: Fundamentals of Air Pollution
ENVE 134: Technology of Air Pollution Control
ENVE 138: Combustion Engineering