## Suggested Course Plan for a UC Riverside Major in Materials Science and Engineering
(Catalog Year 2008)

### Fall Quarter
- **ENGL 001A**
  - English Composition
- **CHEM 001A/01LA**
  - General Chemistry
- **MATH 009A**
  - First Year Calculus
- **MSE 001**
  - Fundamentals of Materials Science

### Winter Quarter
- **First Year**
  - **ENGL 001B**
  - English Composition
  - **CHEM 001B/01LB**
  - General Chemistry
  - **MATH 009B**
  - First Year Calculus

### Spring Quarter
- **Chem 001C/01LC**
  - General Chemistry
- **CS 030**
  - Intro to Comp Science & Eng
- **ENGL 001C or 01SC**
  - English Composition
- **MATH 009C**
  - First Year Calculus

### Second Year
- **CHEM 112A**
  - Organic Chemistry
- **MATH 046**
  - Differential Equations
- **PHYS 040A**
  - Physics (Mechanics)
- **BREADTH**
  - Humanities/Social Sciences
  - **MATH 010A**
  - Multivariable Calculus
  - **PHYS 040B**
  - Physics (Heat/Waves/Sound)
  - **BREADTH**
  - Biological Science
  - **EE 001A/01LA**
  - Engineering Circuit Analysis
  - **MATH 010B**
  - Multivariable Calculus
  - **ME 010**
  - Statics
  - **PHYS 040C**
  - Physics (Electricity/Magnetism)

### Third Year
- **EE 138**
  - Electrical Properties of Materials
- **ENGR 180**
  - Technical Communications
- **ME 114**
  - Intro to Materials Science & Engr
- **BREADTH**
  - Humanities/Social Sciences
  - **CHE 100**
  - Engineering Thermodynamics
  - **ME 110**
  - Mechanics of Materials
  - **TECHNICAL ELECTIVE**
  - **See Catalog List**
  - **BREADTH**
  - Humanities/Social Sciences
  - **CEE 135**
  - Chemistry of Materials
  - **ME 156**
  - Mechanical Behavior of Materials
  - **MSE 160**
  - Nanostructure Characterization Lab
  - **TECHNICAL ELECTIVE**
  - **See Catalog List**

### Fourth Year
- **MSE 161**
  - Analytical Materials Characterization
  - **STAT 155 or STAT 100A**
  - Probability, Statistics for Engr
  - **TECHNICAL ELECTIVE**
  - **See Catalog List**
  - **BREADTH**
  - Humanities/Social Sciences
  - **MSE 175A**
  - Senior Design
  - **TECHNICAL ELECTIVE**
  - **See Catalog List**
  - **BREADTH**
  - Humanities/Social Sciences
  - **MSE 175B**
  - Senior Design
  - **TECHNICAL ELECTIVE**
  - **See Catalog List**
  - **BREADTH**
  - 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: [www.engr.ucr.edu/studentaffairs](http://www.engr.ucr.edu/studentaffairs).
- *Optional, but recommended.
- **Technical Electives are courses which explore specific topics. A list of Technical Electives is available on the College of Engineering Student Academic Affairs website: [www.engr.ucr.edu/studentaffairs](http://www.engr.ucr.edu/studentaffairs), and the UCR College Catalog website: [www.catalog.ucr.edu/](http://www.catalog.ucr.edu/).