## Suggested Course Plan for a UC Riverside Major in Bioengineering (Catalog Year 2009)

### Fall Quarter
- **BIEN 010 (2)**: Overview of Bioengineering
- **CHEM 001A/01LA (5)**: General Chemistry
- **ENGL 001A (4)**: English Composition
- **MATH 009A (4)**: First Year Calculus

### Winter Quarter
- **BIOL 005A/05LA (5)**: Cell Biology
- **CHEM 001B/01LB (5)**: General Chemistry
- **ENGL 001B (4)**: English Composition
- **MATH 009B (4)**: First Year Calculus

### Spring Quarter
- **BIOL 005B (4)**: Organism Biology
- **CHEM 001C/01LC (5)**: General Chemistry
- **ENGL 001C or 01SC*(4)**: English Composition
- **MATH 009C (4)**: First Year Calculus

### First Year

#### Second Year
- **CHEM 112A (4)**: Organic Chemistry
- **MATH 046 (4)**: Differential Equations
- **PHYS 040A (5)**: Physics (Mechanics)
- **BREADTH (4)**: Humanities/Social Sciences

#### Third Year
- **BCH 100 (4)**: Biochemistry
- **BIEN 105 (4)**: Circulation Physiology
- **STAT 155 (4)**: Probability, Statistics for Engr
- **BREADTH (4)**: Humanities/Social Sciences

#### Fourth Year
- **BIEN 135 (4)**: Biophysics & Biothermodynamics
- **BIEN 159 (4)**: Dynamics of Biological Systems
- **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/).
- Technical Electives are courses which explore specific topics. A list of Technical Electives is available on the College of Engineering Student Academic Affairs website: [http://student.engr.ucr.edu/](http://student.engr.ucr.edu/), and in the Bioengineering Department office (Bourns Hall A220).