# Suggested Precalculus Course Plan for a UC Riverside Major in Bioengineering

## Fall Quarter
- **BIEN 010 (2)**: Overview of Bioengineering
- **ENGL 001A (4)**: English Composition
- **MATH 008A/MATH 005 (5)**: Precalculus
- **BREADTH (4)**: Humanities/Social Sciences

## Winter Quarter
- **CHEM 001A/01LA (5)**: General Chemistry
- **CS 010 (4)**: C++ Programming
- **ENGL 001B (4)**: English Composition
- **MATH 008B/MATH 009A (4)**: First Year Calculus

## Spring Quarter
- **CHEM 001B/01LB (5)**: General Chemistry
- **ENGL 001C or 01SC* (4)**: English Composition
- **MATH 009B (4)**: First Year Calculus
- **BREADTH (4)**: Humanities/Social Sciences

## Second Year
- **CHEM 001C/01LC (5)**: General Chemistry
- **MATH 009C (4)**: First Year Calculus
- **MATH 046 (4)**: Differential Equations
- **PHYS 040A (5)**: Physics (Mechanics)

## Third Year
- **BCH 100 (4)**: Biochemistry
- **BIEN 105 (4)**: Circulation Physiology
- **CHEM 112C (4)**: Organic Chemistry
- **EE 001A (3), 01LA (1)**: Engineering Circuit Analysis I

## Fourth Year
- **BIEN 135 (4)**: Biophysics & Biothermodynamics
- **BIEN 159 (4)**: Dynamics of Biological Systems
- **STAT 155 (4)**: Probability, Statistics for Engr
- **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).
- *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: [http://student.engr.ucr.edu](http://student.engr.ucr.edu), and in the Bioengineering Department office (Bourns Hall A220).