

## Tentative\*\* Biology Related Area Coursework

Fall Winter Spring Summer

(If 36 Upper Division Units have been completed, additional Upper Division Units completed will count towards Related Area Unit requirement)

	Fall	Winter	Spring	Summer
*** <b>ANTH 146</b> Primate Social Behavior (4)				
<b>ANTH 152</b> Evolution of the First Hominids (4)	✓			
<b>ANTH 153</b> Evolution of the Genus Homo (4)			✓	
<b>ANTH 155</b> Human Osteology (6)	✓			
<b>BCH 015</b> Introductory Biochemistry Laboratory (3)	✓	✓		
<b>BCH 110A (If not applied to Upper Division)</b> General Biochemistry (4)	✓	✓		
<b>BCH 110C</b> General Biochemistry (4)			✓	
<b>BCH 120</b> Topics in Human Biochemistry (4)			✓	
<b>BCH 162</b> Advanced Biochemistry Laboratory (5)		✓	✓	
<b>BCH 183</b> Plant Biochemistry and Pharmacology of Plant Metabolites (4)	✓			
<b>BCH 184</b> Topics in Physical Biochemistry (4)		✓		
<b>BIOL 194, 197, 199 (9 units max)</b> Biology Research	✓	✓	✓	✓
<b>BPSC 109</b> Epigenetics (4)		✓		
<b>BPSC 135</b> Plant Cell Biology (4)		✓		
<b>BPSC 146</b> Plant Ecology (4)	✓		✓	
<b>BPSC 149</b> Nanobiotechnology (2)		✓		
<b>BPSC 150</b> Genes, Selection and Populations (4)			✓	
*** <b>BPSC 185</b> Molecular Evolution (4)				
<b>CBNS 116</b> Human Neuroanatomy: Structure-Function Relationships (4)			✓	✓
<b>CBNS/PSYC 120</b> Cellular Neuroscience: Membrane & Synaptic Phenomena (4)		✓		✓
<b>CBNS/PSYC 120L</b> Neuroscience Laboratory (2)		✓	✓	✓
<b>CBNS/PSYC 121</b> Developmental Neuroscience (4)	✓			✓
<b>CBNS/PSYC 124</b> Systems Neuroscience (4)	✓		✓	✓
<b>CBNS/PSYC 125</b> Neuropharmacology (4)			✓	✓
<b>CBNS/PSYC 126</b> Neuroscience of Learning and Memory (4)	✓			✓
<b>CBNS/PSYC 127</b> Behavioral Control Systems (4)			✓	
*** <b>CBNS 133</b> Scientific Writing for Cell, Molecular & Developmental Biologists (4)				
<b>CHEM 5*</b> Quantitative Analysis (5)		✓		✓
<b>CHEM 109</b> Survey of Physical Chemistry (4)	✓			✓
<b>CHEM 110A</b> Physical Chemistry: Chemical Thermodynamics (4)	✓			
<b>CHEM 110B</b> Physical Chemistry: Introduction to Statistical Mechanics & Kinetics (4)		✓		
<b>CHEM 111</b> Physical Chemistry Laboratory (4)		✓		
<b>CHEM 113</b> Physical Chemistry: Introduction to Quantum Chemistry (4)			✓	
<b>CHEM 125</b> Instrumental Methods (3 or 5)	✓			
<b>CHEM 143</b> Chemical Biology (3)		✓		
<b>CS 10A**</b> Introduction to Computer Science for Science, Mathematics, and Engineering I (4)	✓	✓	✓	✓
<b>CS 10B**</b> Introduction to Computer Science for Science, Mathematics, & Engineering II (4)	✓	✓	✓	✓
<b>CS 10C**</b> Introduction to Data Structures and Algorithms (4)	✓	✓	✓	✓
<b>CS 61*</b> Machine Organization and Assembly Language Programming (4)	✓	✓	✓	✓
<b>ENTM 106</b> Insect Evolution (3)			✓	
<b>ENTM 107</b> Insect Biodiversity (4)		✓		
<b>ENTM 109</b> Field Entomology (4)			✓	
<b>ENTM 114</b> Aquatic Insects (4)			✓	

<b>ENTM 126</b> Medical and Veterinary Entomology (4)		✓		
<b>ENTM 130</b> Invasion Ecology (4)		✓		
<b>ENTM 133</b> Urban Entomology (4)			✓	
<b>ENVE 121</b> Biological Unit Processes (4)			✓	
<b>ENSC 100</b> Introduction to Soil Science (4)	✓			
<b>ENSC/NEM 120</b> Soil Ecology (3)			✓	
<b>ENSC/MCBL 133</b> Environmental Microbiology (4)		✓		
<b>***ENSC/BPSC 134</b> Soil Conditions and Plant Growth (4)				
<b>ENTX 101</b> Fundamental Toxicology (4)		✓		
<b>ENTX 154</b> Risk Assessment (4)			✓	
<b>GEO 151</b> Principles of Paleontology (4)	✓			
<b>GEO 167</b> Conservation Biogeography (4)	✓			
<b>GEO 169</b> California Vegetation (4)		✓		
<b>MATH 9C*</b> First-Year Calculus (4)	✓	✓	✓	✓
<b>MATH 10A*</b> Calculus of Several Variables (4)	✓	✓	✓	✓
<b>MATH 10B*</b> Calculus of Several Variables (4)	✓	✓	✓	✓
<b>MATH 46*</b> Introduction to Ordinary Differential Equations (4)	✓	✓	✓	✓
<b>MATH 149A</b> Probability and Mathematical Statistics (4)	✓			
<b>MATH 149B</b> Probability and Mathematical Statistics (4)		✓		
<b>MATH 149C</b> Probability and Mathematical Statistics (4)			✓	
<b>MCBL 125</b> Experimental Microbiology (4)			✓	
<b>MCBL 126</b> Microbiomes (3)			✓	
<b>MCBL 128</b> Field Mycology: Ecology, Evolution and Diversity of Fungi (4)		✓		
<b>MCBL 129</b> Host Responses to Viral Pathogens (4)			✓	
<b>MCBL 133</b> Environmental Microbiology (4)		✓		
<b>NEM 120</b> Soil Ecology (3)			✓	
<b>PHYS 117</b> Advanced Mathematical Methods of Physics (4)	✓			
<b>PHYS 130A</b> Classical Mechanics (4)	✓			
<b>PHYS 130B</b> Classical Mechanics (4)		✓		
<b>PHYS 132</b> Thermodynamics (5)			✓	
<b>PHYS 139L</b> Electronics for Scientists (5)	✓		✓	
<b>PHYS 145A</b> Biophysics (4)	✓		✓	
<b>PHYS 145B</b> Biophysics (4)	✓			
<b>***PHYS 145C</b> Biophysics (4)				
<b>PHYS 163</b> Atomic Physics and Spectroscopy (4)			✓	
<b>***PHYS 168</b> Environmental Physics (4)				
<b>PHYS 177</b> Computational Methods for Physical Sciences (4)			✓	
<b>PSYC 112</b> Neural Mechanisms of Animal Behavior (4)	✓	✓		
<b>STAT 100B</b> Introduction to Statistics ( <i>if not being used to fulfill the Upper Division Statistics Requirement</i> ) (5)	✓	✓	✓	✓
<b>STAT 110</b> Bio-statistical Methods in Life Sciences (5)	✓			
<b>STAT 147</b> Introduction to Statistical Computing (4)	✓			✓
<b>STAT 155</b> Probability and Statistics for Science and Engineering (4)	✓	✓		✓
<b>STAT 157</b> Statistical Computer Packages (4)		✓		✓
<b>STAT 160A</b> Elements of Probability and Statistical Theory (4)	✓			
<b>STAT 160B</b> Elements of Probability and Statistical Theory (4)		✓		
<b>STAT 160C</b> Elements of Probability and Statistical Theory (4)			✓	
<b>STAT 161</b> Introduction to Probability Models (4)			✓	

**STAT 167** Introduction to Data Science (4)

		✓	
✓			
	✓		
		✓	

**STAT 170A** Regression Analysis (4)

**STAT 170B** Design of Experiments (4)

**STAT 171** General Statistical Models (4)

*+Courses were formerly CS10, CS12 and CS14 respectively*

*\*A lower division transfer course with a minimum grade of "C" will satisfy the same number of units in the related area as the equivalent UCR course.*

*\*\*Schedule subject to change.*

*\*\*\* Please check UCR Schedule of Classes for course availability*