

**Iowa State University**  
**College of Agriculture**  
**Agricultural Biochemistry Eight-Semester Plan**  
**2007-2009 Catalog**

Semester 1	FRESHMAN YEAR		Semester 2
Crit. Think. and Commun. - ENGL 150	3	Written, Oral, Vis., Elect. Commun. - ENGL 105	3
Introduction to Biochemical Activities - BBMB 101	1	Intro. to Biochem. Lab. - BBMB 102	1
Principles of Biology I - BIOL 211	3	Principles of Biology II – BIOL 212	3
Principles of Biology Lab - BIOL 211L <sup>1</sup>	1	Principles of Biology II - BIOL 212	3
General Chemistry - CHEM 177	4	General Chemistry - CHEM 178	3
Lab in General Chemistry - CHEM 177N	1	Calculus II - MATH 166	4
Calculus I - MATH 165	4	Elective <sup>4</sup>	3
Library Instruction - LIB 160	0.5		
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Semester 3	SOPHOMORE YEAR		Semester 4
Quant, and Environ. Anal. – CHEM 211	2	Princ. of Mol. Cell Biol. - BIOL 314	3
Quant, and Environ. Anal. Lab – CHEM 211L	2	Organic Chemistry - CHEM 332	3
Organic Chemistry - CHEM 331	3	Calculus III <sup>3</sup> – MATH 265	4
Lab. in Organic Chem.. – CHEM 331L	1	Intro. to Classical Physics II - PHYS 222	5
Principles of Genetics – BIOL 313	3	Chem. Prin. in Biol. Syst.	2
Intro. to Classical Physics I - PHYS 221	5		
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Semester 5	JUNIOR YEAR		Semester 6
Biochemistry I - BBMB 404 <sup>2</sup>	3	Biochemistry II - BBMB 405 <sup>2</sup>	3
Tech. in Biochem. Res. – BBMB 411	3	Electives <sup>4</sup> – 4 to 5 courses	12 - 15
Fund. of Public Speaking – SpCom 212	3		
Electives <sup>4</sup> – 2 to 3 courses	9 – 12		
	<hr style="width: 50%; margin: 0 auto;"/> 15-18		<hr style="width: 50%; margin: 0 auto;"/> 15-18

Semester 7	SENIOR YEAR		Semester 8
Intro. Quant. Mech. – CHEM 324	3	Chem. Thermo. – CHEM 325	3
Electives <sup>4</sup> – 4 to 5 courses	12-15	Lab. in Physical Chem. – CHEM 322L	3
		Electives <sup>4</sup> – 3 to 4 courses	9-12
	<hr style="width: 50%; margin: 0 auto;"/> 15-18		<hr style="width: 50%; margin: 0 auto;"/> 15-18

(over)

Students in all ISU majors must complete a three-credit course in U.S. diversity and a three-credit course in international perspectives. Check ([www.iastate.edu/~registrar/courses/div-ip-guide.html](http://www.iastate.edu/~registrar/courses/div-ip-guide.html)) for a list of approved courses. Discuss with your adviser how the two courses that you select can be applied to your graduation plan.

- <sup>1</sup> Students can elect either BIOL 211L or 212L or both.
- <sup>2</sup> Students have the option of choosing the senior-level biochemistry sequence for 6 credits (BBMB 404 and BBMB 405) or the graduate-level biochemistry sequence for 8 credits (BBMB 501 and BBMB 502).
- <sup>3</sup> Students can select either MATH 265, 266, or 267
- <sup>4</sup> Students will select courses to meet the following requirements:
  - 15 credits from the approved list of Humanities, Ethics, Social Sciences, International Perspective, and US Diversity courses
  - 9 credits from the approved list of Agricultural Sciences coursesBBMB 490 (Independent Study) or BBMB 499 (Independent Research) is recommended but not required.