

# Agriculture and Life Sciences, 4 Year Plans

## Agricultural Biochemistry, B.S. - option 1

Freshman		
Fall	Credits Spring	Credits
CHEM 177	4 CHEM 178	3
CHEM 177N	1 MATH 166	4
MATH 165	4 ENGL 250	3
ENGL 150	3 BBMB 102	1
BIOL 211	3 BIOL 212	3
BIOL 211L *	1 Student choice	3
BBMB 101	1	
LIB 160	1	
	<b>18</b>	<b>17</b>
Sophomore		
Fall	Credits Spring	Credits
PHYS 221	5 PHYS 222	5
CHEM 211	2 CHEM 332	3
CHEM 211L	2 BIOL 314	3
CHEM 331	3 BBMB 201	2
CHEM 331L	1 MATH 265 or 266	3-4
BIOL 313	3	
	<b>16</b>	<b>16-17</b>
Junior		
Fall	Credits Spring	Credits
BBMB 404	3 BBMB 405	3
BBMB 411	4 Student choice	3
SP CM 212	3 Student choice	3
Student choice	3 Student choice	3
Student choice	3-6 Student choice	3-6
	<b>16-19</b>	<b>15-18</b>
Senior		
Fall	Credits Spring	Credits
CHEM 324	3 CHEM 325	3
Student choice	3 CHEM 322L	3
Student choice	3 Student choice	3
Student choice	3 Student choice	3
Student choice	3-6 Student choice	3-6
	<b>15-18</b>	<b>15-18</b>

Total Credits: 128-141

\* Students may elect to take either 211L or 212L or both.  
'Student choice 'are for courses in Humanities, Ethnic, Social Sciences, Agriculture Sciences, and Electives.

## Agricultural Biochemistry, B.S. - option 2

Freshman		
Fall	Credits Spring	Credits
CHEM 201	5 MATH 166	4
CHEM 201L	1 ENGL 250	3
MATH 165	4 BBMB 102	1
BIOL 211	3 BIOL 212	3
BIOL 211L *	1 LIB 160	1
BBMB 101	1 CHEM 211	2
	CHEM 211L	2
	<b>15</b>	<b>16</b>
Sophomore		
Fall	Credits Spring	Credits
PHYS 221	5 PHYS 222	5
CHEM 331	3 CHEM 332	3
CHEM 331L	1 BIOL 314	3
BIOL 313	3 BBMB 201	2
Student choice	3 MATH 265 or 266	3-4
Student choice	3	
	<b>18</b>	<b>16-17</b>
Junior		
Fall	Credits Spring	Credits
BBMB 404	3 BBMB 405	3
BBMB 411	4 Student choice	3

SP CM 212	3 Student choice	3
Student choice	3 Student choice	3
Student choice	3-6 Student choice	3-6
	<b>16-19</b>	<b>15-18</b>

Senior		
Fall	Credits Spring	Credits
CHEM 324	3 CHEM 325	3
Student choice	3 CHEM 322L	3
Student choice	3 Student choice	3
Student choice	3 Student choice	3
Student choice	3-6 Student choice	3-6
	<b>15-18</b>	<b>15-18</b>

Total Credits: 126-139

\* Students may elect to take either 211L or 212L or both.  
'Student choice 'are for courses in Humanities, Ethnic, Social Sciences, Agriculture Sciences, and Electives.

## Agricultural Business

Freshman		
Fall	Credits Spring	Credits
ECON 110	0.5 BIOL 101 or 211	3
ECON 101-101L	4 ECON 102	3
ENGL 150	3 ECON 235	3
LIB 160	1 ECON 207 or MATH 166	3
MATH 160 or 165	4 Ag Science or Humanities	3
Ag Science or Humanities	3	
	<b>15.5</b>	<b>15</b>

Sophomore		
Fall	Credits Spring	Credits
ACCT 284	3 Business elective or FIN 301 <sup>a,b</sup>	3
ECON 301	3-4 CHEM 163-163L or PHYS 111	4-5
ENGL 250	3 ECON 302 or 353	3
ECON 292	1 International or Diversity	3
Ag Science or Humanities	3 Life Sciences	3
	<b>13-14</b>	<b>16-17</b>

Junior		
Fall	Credits Spring	Credits
Business elective or FIN 301 <sup>a,b</sup>	3 Business elective or FIN 301 <sup>a,b</sup>	3
ECON course (from approved list)	3 ECON course (from approved list)	3
SP CM 212 (or AgEds 311)	3 STAT 326	3
STAT 226	3 International or Diversity	3
Ethics	3 Elective	3
	<b>15</b>	<b>15</b>

Senior		
Fall	Credits Spring	Credits
ECON 400-489 or ECON course (from approved list)	3 ECON 400-489 or ECON course (from approved list)	3
ENGL 302 or 309 or 314	3 ECON 492	0
Electives	9 Electives	12
	<b>15</b>	<b>15</b>

Total Credits: 119.5-121.5

- a Select six credits from: Acct 285 or any 300-489 Acct, Fin, Mkt, Mgmt, MIS or SCM courses.
- b Students interested in taking additional Finance courses beyond 301 should take Stat 226 during the first semester of their sophomore year, and Fin 301 instead of Business Elective in the second semester of their sophomore year.

## Agricultural and Life Sciences Education, B.S - communications option

First Year		Credits	Spring	Credits
<b>Fall</b>				
AGEDS 110	0.5 BIOL 212	3		
Ag elective	3 ENGL 250	3		
BIOL 211	3 Psych elective	3		
ENGL 150	3 Life Science Elective	3		
LIB 160	1 Ag Elective	3		
MATH 104 or 150	3			
ECON 101 or 102	3			
	<b>16.5</b>	<b>15</b>		
<b>Second Year</b>				
<b>Fall</b>				
CHEM 163 and Lab	5 BBMB 221	3		
Prof Comm Elective	3 Prof Comm Elective	3		
Ag Elective	3 Ag Elective	6		
Ethics Elective	3 Intl Perspectives Elective	3		
STAT 104	3 AGEDS 215	1		
	AGEDS 211	1		
	<b>17</b>	<b>17</b>		
<b>Third Year</b>				
<b>Fall</b>				
AGEDS 315	3 Prof Comm Elective	6		
Prof Comm Elective	3 Ag Elective	6		
U.S. Diversity Elective	3 AGEDS 311	3		
Ag Elective	3 Humanities Elective	3		
Elective	3			
	<b>15</b>	<b>18</b>		
<b>Fourth Year</b>				
<b>Fall</b>				
AGEDS 412	2-6 Prof Comm Elective	3		
Ag Elective	5 Elective	6-7		
Prof Comm Elective	3 Ag Elective	3		
Elective	3			
	<b>13-17</b>	<b>12-13</b>		

Total Credits: 123.5-128.5

\* Communications Option: In addition, students would have to meet requirements in the following areas.  
 Select one technical agricultural area in which you will complete at least 10 credits (6 of these must be 300-400 level courses)  
 Select two other technical agricultural areas in which you will complete at least 6 credits (2 courses) in each area.  
 A 2.0 grade point average is required.

## Agricultural and Life Sciences Education, B.S - teacher certification option

Freshman		Credits	Spring	Credits
<b>Fall</b>				
AGEDS 110	0.5 C I 202	3		
AGEDS 116	1 ENGL 250	3		
AN S 114	2 AGRON 114	3		
AN S 101	2 ECON 101	3		
BIOL 211 & 211L	4 BIOL 212 & 212L	4		
ENGL 150	3			
LIB 160	1			
MATH 140 or 150	3			
	<b>16.5</b>	<b>16</b>		
<b>Sophomore</b>				
<b>Fall</b>				
CHEM 163 & 163L	5 PSYCH 230	3		
C I 204	3 Ethics Elective	3		
NREM 120	3 STAT 104	3		
ACCT 284	3 American History Elective	3		
AGEDS 310	3 AGEDS 211	1		

Junior		Credits	Spring	Credits
<b>Fall</b>				
ECON 230	3 Intl Perspectives Elective	3		
C I 333	3 AGEDS 311	3		
AGEDS 315	3 AGRON 154	3		
AGEDS 488	3 Elective	6		
Elective	3			
	<b>15</b>	<b>15</b>		
<b>Senior</b>				
<b>Fall</b>				
AGEDS 401	3 AGEDS 416	1		
AGEDS 402	3 AGEDS 417	1-16		
Elective	6			
C I 406	3			
SP ED 401	3			
	<b>18</b>	<b>2-17</b>		

Total Credits: 115.5-130.5

## Agricultural Studies, B.S.

Freshman		Credits	Spring	Credits
<b>Fall</b>				
AGEDS 110B	0.5 AGRON 154	3		
ECON 101	3 AN S 114	2		
MATH 104 or 150	3 AN S 101	2		
NREM 120/130	3 STAT 104	3		
ENGL 150	3 ENGL 250	3		
LIB 160	1 Humanities Elective	3		
AGRON 114	3			
	<b>16.5</b>	<b>16</b>		
<b>Sophomore</b>				
<b>Fall</b>				
AGEDS 215	1 ACCT 284	3		
AGRON 212	3 BIOL 212 & 212L	4		
BIOL 211 & 211L	4 U.S. Diversity Elective	3		
Intl Perspective Elective	3 AN S Elective	3		
ECON 235	3 Elective	3		
	<b>14</b>	<b>16</b>		
<b>Junior</b>				
<b>Fall</b>				
AN S Elective	3 AGEDS 311	3		
AG Elective (300+ level)	3 ECON 230	3		
AGEDS 315	3 Ethics Elective	3		
CHEM 163 & 163L	5 Elective	7		
Elective	3			
	<b>17</b>	<b>16</b>		
<b>Senior</b>				
<b>Fall</b>				
AGEDS 450	3 AGEDS 451	4		
ECON 334	3 Elective	12		
AGEDS 327	3			
Elective	7			
	<b>16</b>	<b>16</b>		

Total Credits: 127.5

\* A 2.00 grade point average is required.

## Agricultural Systems Technology, B.S. - Agricultural and biosystems management option

First Year		Credits	Spring	Credits
<b>Fall</b>				
TSM 110	1 TSM 111	1		
TSM 116	3 TSM 115	3		
ENGL 150	3 MATH 160	4		
LIB 160	1 PHYS 111	5		
MATH 142	3 ECON 101	3		
CHEM 163	4			

CHEM 163L	1			
	<b>16</b>		<b>16</b>	
<b>Second Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	
TSM 201	1	TSM 322	2	
TSM 210	3	TSM 322L	1	
TSM 270	3	STAT 104	3	
ENGL 250	3	ECON 230	3	
ACCT 284	3	BIOL 101 or BIOL 211	3	
		SP CM 212, COMST 214, or AGEDS 311	3	
	<b>13</b>		<b>15</b>	
<b>Third Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	<b>Summer</b>
TSM 325	3	TSM 310	3	TSM 397
TSM 327	3	TSM 324	3	
ENGL 302, ENGL 309, ENGL 314, or AGEDS 327	3	TSM 330	3	
Life Science - See list *	3	TSM 363	4	
US Diversity - See list *	3	TSM 370 (Ethics requirement)	3	
	<b>15</b>		<b>16</b>	<b>0</b>
<b>Fourth Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	
TSM 333	3	TSM 416	5	
TSM 399	2	International Perspective - See list *	3	
TSM 415	1	Elective	6	
Humanities - See list *	3			
Elective	6			
	<b>15</b>		<b>14</b>	

Total Credits: 120

\* See List - Speak with an academic adviser for options for each list

## Agricultural Systems Technology, B.S. - machine systems option

<b>First Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	
TSM 110	1	TSM 111	1	
TSM 116	3	TSM 115	3	
ENGL 150	3	MATH 160	4	
LIB 160	1	PHYS 111	5	
MATH 142	3	US Diversity - See list *	3	
CHEM 163	4			
CHEM 163L	1			
	<b>16</b>		<b>16</b>	
<b>Second Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	
TSM 201	1	TSM 216	3	
TSM 210	3	TSM 240	3	
TSM 270	3	STAT 104	3	
ENGL 250	3	SP CM 212, COMST 214, or AGEDS 311	3	
ACCT 284	3	BIOL 101 or BIOL 211	3	
ECON 101	3			
	<b>16</b>		<b>15</b>	
<b>Third Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	<b>Summer</b>
TSM 333	3	TSM 310	3	TSM 397
TSM 335	4	TSM 330	3	
Humanities - See list *	3	TSM 337	3	
ENGL 302, ENGL 309, ENGL 314, or AGEDS 327	3	TSM 363	4	
Life Science - See list *	3			
	<b>16</b>		<b>13</b>	<b>0</b>
<b>Fourth Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	
TSM 399	2	TSM 370 (Ethics requirement)	3	
TSM 415	1	TSM 416	5	
Elective	8	TSM 443	3	

International Perspective - See list *	3	TSM 465	3
	<b>14</b>		<b>14</b>

Total Credits: 120

\* See list - Speak with an academic adviser for options for each list.

## Agronomy, B.S.

<b>Freshman</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	
AGRON 110	0.5	AGRON 154	3	
AGRON 114	3	BIOL 211	3	
AGRON 206	3	BIOL 211L	1	
General Chemistry & Lab	5	ENGL 250	3	
ENGL 150	3	College Algebra or Calculus	4	
LIB 160	1	ECON 101	3	
	<b>15.5</b>		<b>17</b>	
<b>Sophomore</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	
(CHEM 231 & 231L) or BBMB 221	3-4	General Physics	4	
AGRON 210	1	Ethics Choice	3	
STAT 104	3	SP CM 212 or AGEDS 311	3	
Humanities Choice	3	Advising Option Choice	3	
GEOL 100	3	Elective	3	
	<b>13-14</b>		<b>16</b>	
<b>Junior</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	
AGRON 354	3	AGRON 316	3	
AGRON 354L	1	Genetics Choice	3	
Agricultural Issues Choice	3	ENGL 302, 309, or 314	3	
Advising Option Choice	3	International Perspectives Choice	3	
Advising Option Choice	3	Advising Option Choice	3	
Elective	3	Elective	3	
	<b>16</b>		<b>18</b>	
<b>Senior</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	
Problem Solving Choice	3	AGRON 410	1	
U.S. Diversity Choice	3	Advising Option Choice	3	
Advising Option Choice	6	Elective	10-11	
Elective	6			
	<b>18</b>		<b>14-15</b>	

Total Credits: 127.5-129.5

## Animal Ecology, B.S. - fisheries and aquatic sciences

<b>Freshman</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	
BIOL 211	3	BIOL 212	3	
BIOL 211L	1	BIOL 212L	1	
NREM 110	1	NREM 120	3	
MATH 140	3	ENGL 150	3	
CHEM 163	4	MATH 142	3	
CHEM 163L	1	LIB 160	1	
Required Elective	3	STAT 101/104	3-4	
	<b>16</b>		<b>17-18</b>	
<b>Sophomore</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	
A ECL 365	4	CHEM 231	3	
NREM 211	1	CHEM 231L	1	
A ECL 312	4	SP CM 212	3	
MATH Calculus Elective	4	Free Elective / Restricted Elective	6	
ENGL 250	3	Required Elective	3	
	<b>16</b>		<b>16</b>	

Junior			
Fall	Credits	Spring	Credits
PHYS 115 & 115L		5 A ECL 321	3
A ECL 486		3 Communications Elective	3
A ECL 486L		1 Restricted Elective	3
Restricted Elective		6 Required Elective	3
Required Elective		3 Free Elective	3
		<b>18</b>	<b>15</b>
Senior			
Fall	Credits	Spring	Credits
Required Elective		3 Restricted Electives	7
Restricted Elective		6 Communications Elective	3
Free Electives		8 Free Electives	6
		<b>17</b>	<b>16</b>

Total Credits: 131-132

\* To complete degree program in 4 years students must maintain an average of 16 credits per semester.

\*\* Initial math course is determined on the basis of high school math and placement test scores. A non-credit course (Math 10) maybe be required at additional costs.

\*\*\* In scheduling coursework, students should pay particular attention to courses with limited offerings (e.g., offered only on alternate years) and to course sequences (i.e., where a course serves as a prerequisite for another course).

## Animal Ecology, B.S. - interpretation of natural resources option

Freshman			
Fall	Credits	Spring	Credits
BIOL 211		3 BIOL 212	3
BIOL 211L		1 BIOL 212L	1
NREM 110		1 NREM 120	3
Required Elective		3 ENGL 150	3
MATH 140**		3 MATH 142**	3
CHEM 163		4 STAT 101/104	3-4
CHEM 163L		1 LIB 160	1
		<b>16</b>	<b>17-18</b>
Sophomore			
Fall	Credits	Spring	Credits
A ECL 365		4 CHEM 231	3
NREM 211		1 CHEM 231L	1
A ECL 312		4 SP CM 212	3
Earth Science Elective		3 Free Elective/ Restricted Elective	6
ENGL 250		3 Required Elective	3
		<b>15</b>	<b>16</b>
Junior			
Fall	Credits	Spring	Credits
PHYS 115		4 NREM 330	3
PHYS 115L		1 Communications Elective	3
Botany or Restricted Elective		3-4 A ECL 366	3
ENT 370		3 Required Elective	3
Required Elective		3 BIOL 366	4
Free Elective		3	3
		<b>17-18</b>	<b>16</b>
Senior			
Fall	Credits	Spring	Credits
Restricted Elective		6-7 Botany or Restricted Elective	3
Required Elective		3 Restricted Elective	3
Free Electives		7 Communications Elective	3
		NREM 303	1-3

	Free Electives (if needed)	
	8	
	<b>16-17</b>	<b>18-20</b>

Total Credits: 131-136

\* To complete degree program in 4 years students must maintain an average of 16 credits per semester.

\*\* Initial math course is determined on the basis of high school math and placement test scores. A non-credit course (Math 10) maybe be required at additional costs.

\*\*\* In scheduling coursework, students should pay particular attention to courses with limited offerings (e.g., offered only on alternate years) and to course sequences (i.e., where a course serves as a prerequisite for another course).

## Animal Ecology, B.S. - pre-veterinary and wildlife care option

Freshman			
Fall	Credits	Spring	Credits
BIOL 211		3 BIOL 212	3
BIOL 211L		1 BIOL 212L	1
NREM 110		1 NREM 120	3
Required Elective		3 ENGL 150	3
MATH 140		3 MATH 142	3
CHEM 163		4 STAT 101/104	3-4
CHEM 163L		1 LIB 160	1
		<b>16</b>	<b>17-18</b>
Sophomore			
Fall	Credits	Spring	Credits
A ECL 365		4 CHEM 231	3
NREM 211		1 CHEM 231L	1
A ECL 312		4 SP CM 212	3
Restricted Elective		3 Free Elective/ Restricted Elective	6
ENGL 250		3 Required Elective	3
		<b>15</b>	<b>16</b>
Junior			
Fall	Credits	Spring	Credits
PHYS 115 & 115L		5 NREM 330	3
Restricted Elective		3 AN S 214 or BMS 329	3
Required Elective		3 Natural History Elective	3
Free Elective		6 Required Elective	3
		Free Elective	6
		<b>17</b>	<b>18</b>
Senior			
Fall	Credits	Spring	Credits
Restricted Elective		6 Restricted Elective	3
Genetics/Development Elective		3 Communications Elective	3
Required Elective		3 Free Elective	9
Communications Elective		3	3
Free Elective		2	2
		<b>17</b>	<b>15</b>

Total Credits: 131-132

\* To complete degree program in 4 years students must maintain an average of 16 credits per semester.

\*\* In scheduling coursework, students should pay attention to courses with limited offerings, (e.g., offered only on alternate years) and to course sequences (i.e., where a course serves as a prerequisite for another course).

# Admission to the ISU College of Veterinary Medicine requires a different set of Chemistry and Physics courses. Students should plan to enroll in Chemistry 177, 177L, 178, 331, 331L and 332. The Physics requirement is PHYS 111.

## Animal Ecology, B.S. - wildlife option

Freshman			
Fall	Credits	Spring	Credits
BIOL 211		3 BIOL 212	3
BIOL 211L		1 BIOL 212L	1
NREM 110		1 NREM 120	3

MATH 140	3 ENGL 150	3	BBMB 221	3 MICRO 201 & 201L or MICRO 302 & 302L	3-4
CHEM 163 <sup>#</sup>	4 MATH 142	3		3 Free elective	3
CHEM 163L <sup>#</sup>	1 LIB 160	1	ECON 101, 102 or ACCT 284		3
Required Elective	3 STAT 101/104	3-4			17
	<b>16</b>	<b>17-18</b>			<b>17-18</b>
<b>Sophomore</b>			<b>Junior</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
A ECL 365	4 CHEM 231 <sup>#</sup>	3	AN S 319	3 AN S 320	3
NREM 211	1 CHEM 231L <sup>#</sup>	1	AN S 331	3 AN S 352	3
A ECL 312	4 SP CM 212	3	GEN 320 or BIOL 313	3 AN S 300 - elective list	3
MATH Calculus Elective	4 Free Elective / Restricted Elective	6	US Diversity - elective list	3 Ethics - elective list	3
			Free elective	3 Free elective	3
ENGL 250	3 Required Elective	3		<b>15</b>	<b>15</b>
	<b>16</b>	<b>16</b>	<b>Senior</b>		
<b>Junior</b>			<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	AN S 411	1 AN S 400 - Option 2	3
PHYS 115	4 BIOL 366	4	AN S 400 - Option 1	3 International perspective - elective list	3
PHYS 115L	1 Communications Elective	3	ENGL302, 309, 312 or 314	3 Free elective	3
A ECL 371	3 Restricted Electives	6	Free elective	3 Free elective	3
Restricted Electives	6 Required Elective	3	Free elective	3 Free elective	4
Required Elective	3		Free elective	3	
	<b>17</b>	<b>16</b>		<b>16</b>	<b>16</b>
<b>Senior</b>			Total Credits: 129-132		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	This is only one of many equally-sound schedule sequences.		
A ECL 451	3 Restricted Electives	9	Note: Free electives and specified group electives are chosen to complement the student's 'specialized degree option' or other career interest. Lists of courses that satisfy group requirements are maintained in the Animal science advising offices. Degree options are explained in AN S 100 and through appointments with the student's academic adviser in Animal Science. Specialized options include: General Animal Science, Animal Products, Companion Animal Management, Equine Management, Livestock Management, Pre-Graduate Studies and Pre-Veterinary Medicine.		
Restricted Electives	6 Communications Elective	3			
Required Elective	3 Free Elective	3			
Free Electives	6				
	<b>18</b>	<b>15</b>			

Total Credits: 131-132

- \* To complete degree program in four years students must maintain an average of 16 credits per semester.
- \*\* Initial math course is determined on the basis of high school math and placement test scores. A non-credit course (Math 10) maybe be required at additional costs.
- \*\*\* In scheduling coursework, students should pay attention to courses with limited offerings, (e.g., offered only on alternate years) and to course sequences (i.e., where a course serves as a prerequisite for another course). It is critical that students take A ECL 371 fall semester of the junior year and A ECL 451 fall semester of the senior year.

## Animal Science, B.S. - general

<b>Freshman</b>					
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>		<b>Credits Spring</b>	<b>Credits</b>
AN S 110	1 AN S 114	2	MATH 140, 150, 160, 165, or 181	3-4	
AN S 101	2 CHEM 177, 177L or 163, 163L	5	Soc. Sci. - elective list	3	
BIOL 211	3 Humanites Elective	3		<b>17-18</b>	<b>16-17</b>
BIOL 211L	1 SP CM 212, AGEDS 311, or COMST 214	3	<b>Sophomore</b>		
ENGL 150	3 STAT 101, 104, or 226	3-4	<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
LIB 160	1		AN S 211	1 AN S 214	3
MATH 140, 150, 160, 165, or 181	3-4		AN S 200 - elective list	3 AN S 214L	1
Soc. Sci. - elective list	3		AN S 200 - elective list	3 AN S 200 - elective list	3
	<b>17-18</b>	<b>16-17</b>	BIOL 212	3 CHEM 331	3
<b>Sophomore</b>			BIOL 212L	1 CHEM 331L	1
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	CHEM 178	3 ENGL 250	3
AN S 211	1 AN S 210	1	ECON 101, 102 or ACCT 284	3 Ethics - elective list	3
AN S 200 - elective list	3 AN S 214	3		<b>17</b>	<b>17</b>
AN S 200 - elective list	3 AN S 214L	3	<b>Junior</b>		
BIOL 212	3 AN S 200 - elective list	3	<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
BIOL 212L	1 ENGL 250	3	AN S 210	1 AN S 320	3
			AN S 319	3 AN S 352	3
			AN S 331	3 AN S 300 - elective list	3
			GEN 320 or BIOL 313	3 BBMB 301	3
			CHEM 332	3 US Diversity - elective list	3

MICRO 201 & 201L or MICRO 302 & 302L	3-4	
	<b>16-17</b>	<b>15</b>
<b>Senior</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
AN S 411	1 AN S 400 - Option 2	3
AN S 400 - Option 1	3 International Perspective - elective list	3
ENGL 302, 309, 312, or 314	3 Free elective	3
PHYS 111	5 Free elective	3
Free elective	3 Free elective	3
Free elective	2	
	<b>17</b>	<b>15</b>

Total Credits: 130-133

**Note:** This is only one of many equally-sound schedule sequences.

\* Credits currently required for application to Veterinary Medicine program at ISU (60 credits) <http://vetmed.iastate.edu/academics/prospective-students/admissions/academic-requirements>

- General Chemistry with lab (7)
- Organic Chemistry with lab (7)
- Biochemistry (3)
- General Physics with lab (4)
- General Biology with lab (8)
- Genetics (3)
- Mammalian Anatomy and/or Physiology (3)
- English Composition (6)
- Oral Communication (3)
- Humanities and/or Social Sciences (8)
- Other Electives (8)

## Biology, B.S.

<b>Freshman</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
ENGL 150 or 250	3 BIOL 111	0.5
LIB 160	1 BIOL 212	3
BIOL 110	1 BIOL 212L	1
BIOL 211	3 Chemistry *	4
BIOL 211L	1 MATH/STAT Choice	4
CHEM 163/L or 177/L	5 Social Science Choice	3
Humanity	3	
	<b>17</b>	<b>15.5</b>

<b>Sophomore</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
ENGL 250 or Elective	3 BIOL 313	3
Chemistry or Biochemistry *	4-3 BIOL 313L	1
BIOL 312	4 Biochemistry / Elective *	3
SP CM 212	3 Ethics	3
Advanced Biology	3 Advanced Biology with Lab	4
	<b>17-16</b>	<b>14</b>

<b>Junior</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
BIOL 314	3 BIOL 315	3
PHYS 111 or PHYS 115 *	5 PHYS 112 / Elective *	5-3
Advanced Biology	3 Advanced Biology	4
MATH/STAT Choice	4 U.S. Diversity / Elective	3
	<b>15</b>	<b>15-13</b>

<b>Senior</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
Advanced Biology	4 Advanced Biology with Lab	4
International Perspective / Elective	3 Minor or Elective	11
Minor or Electives	8	
	<b>15</b>	<b>15</b>

Total Credits: 123.5-120.5

\* Students should meet with a Biology Program Adviser to determine the proper plans for chemistry, math and physics before selecting those options above.

Students must have 120 credits minimum to graduate students are required to take 21 credits in advanced biology of which 9 credits must be from the Biology Program (BIOL), and 2 advanced BIOL courses must have a lab or field component.

## Culinary Science, B.S.

<b>First Year</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
FS HN 110	1 FS HN 101	3
CHEM 163 or 177	4 FS HN 104	1
CHEM 163L or 177L	1 FS HN 167	3
BIOL 211	3 BIOL 212	3
MATH 140, 142, 160, 165 or 181	3-4 ECON 101	3
ENGL 150	3 STAT 101 or 104	3-4
LIB 160	1	
	<b>16-17</b>	<b>16-17</b>

<b>Second Year</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
CHEM 231	3 BBMB 301	3
CHEM 231L	1 FS HN 265	3
ENGL 250	3 MICRO 201 or 302	2-3
FS HN 203	1 MICRO 201L or 302L	1
HRI 233	3 FS HN 214	3
AESHM 340 or MKT 340	3 FS HN 215	2
	<b>14</b>	<b>14-15</b>

<b>Third Year</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
AN S 270	2 FS HN 314	1
AN S 270L	1 FS HN 403	2
FS HN 311	3 FS HN 405	3
FS HN 311L	1 FS HN 491B or 491D (FS or CS) **	2
FS HN 411	2 HRI 380	3
FS HN 420	3 HRI 380L	2
Humanities (H Sci) or ENV S course (AgLS)	2-3 SP CM 212	3
	<b>14-15</b>	<b>16</b>

<b>Fourth Year</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
FS HN 342	3 AESHM 474	3
FS HN 406	3 AN S 460	3
FS HN 491B or 491D (FS or CS) **	2 FS HN 412	3
HRI 383	2 FS HN 480	1
HRI 487	3 Humanities or Social Science (H Sci) or elective (AgLS)	3
Humanities dual listed with U.S. Diversity	3 Electives *	1
	<b>16</b>	<b>14</b>

Total Credits: 120-124

\* Chose elective courses to total equal to or greater than 120 credits.

\*\* Choose two, 2-credit internship experiences, one with a restaurant chef and one in the food processing industry (FS HN 491B and 491D). Experience could be obtained during the academic year or during summers.

**Note:** This sequence is only an example. The number of credits taken each semester should be based on the individual student's situation. Factors that may affect credit hours per semester include student ability, employment, health, activities, and grade point consideration.

## Dairy Science, B.S. - general

<b>Freshman</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
AN S 110	1 AN S 114	2
AN S 101	2 CHEM 177, 177L or 163, 163L	5
BIOL 211	3 Humanities - elective list	3

BIOL 211L	1 SP CM 212, AGEDS 311, or COMST 214	3	AN S 235	3 AN S 270 & 270L or FS HN 101	3
ENGL 150	3 STAT 101 or 104 or 226	3-4	BIOL 212	3 AN S 214	3
LIB 160	1		BIOL 212L	1 AN S 214L	1
MATH 140, 150, 160, 165, or 181	3-4		CHEM 178	3 CHEM 331	3
Social Science - elective list	3		ECON 101	3 CHEM 331L	1
	<b>17-18</b>	<b>16-17</b>	Ethics - elective list	3 ENGL 250	3
				Free elective	3
<b>Sophomore</b>				<b>17</b>	<b>18</b>
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	<b>Junior</b>		
AN S 211	1 AN S 210	1	<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
AN S 235	3 AN S 270 & 270L or FS HN 101	3	AN S 319	3 AN S 320	3
			AN S 331	3 AN S 352	3
BIOL 212	3 AN S 214	3	GEN 320 or BIOL 313	3 AN S 337	3
BIOL 212L	1 AN S 214L	1	CHEM 332	3 BBMB 301	3
BBMB 221	3 ENGL 250	3	MICRO 201L & 201L or MICRO 302 & 302L	3-4 US diversity - elective list	3
ECON 101	3 MICRO 201 & 201L or MICRO 302 & 302L	3-4			
Free elective	3 Free elective	3		<b>15-16</b>	<b>15</b>
	<b>17</b>	<b>17-18</b>	<b>Senior</b>		
<b>Junior</b>			<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	AN S 411	1 AN S 435	3
AN S 319	3 AN S 320	3	AN S 434	3 International Perspective - elective list	3
AN S 331	3 AN S 352	3	AN S elective	3 AN S elective	3
GEN 320 or BIOL 313	3 AN S 337	3	PHYS 111	5 Free elective	3
US diversity - elective list	3 Free elective	3	Free elective	4 Free elective	4
Free elective	3 Ethics - elective list	3		<b>16</b>	<b>16</b>
	<b>15</b>	<b>15</b>			
<b>Senior</b>					
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>			
AN S 411	1 AN S 435	3			
AN S 434	3 International perspective - elective list	3			
AN S elective	3 AN S elective	3			
Free Elective	3 Free elective	3			
Free elective	3 Free Elective	4			
Free elective	3				
	<b>16</b>	<b>16</b>			
Total Credits: 129-132			Total Credits: 130-133		

\* Credits currently required for application to Veterinary Medicine program at ISU (60 credits) <http://vetmed.iastate.edu/academics/prospective-students/admissions/academic-requirements>  
 General Chemistry with lab (7)  
 Organic Chemistry with lab (7)  
 Biochemistry (3)  
 General Physics with lab (4)  
 General Biology with lab (8)  
 Genetics (3)  
 Mammalian Anatomy and/or Physiology (3)  
 English Composition (6)  
 Oral Communication (3)  
 Humanities and/or Social Science (8)  
 Other Electives (8)

Important Note: This is only one of many equally-sound schedule sequences.

Free electives and specified group electives are often chosen to complement the student's career focus. The student's academic adviser assists with developing scheduling schemes that prepare students individually for careers in the animal industry. They are explained fully in AN S 110 and through appointments with the student's adviser in Dairy Science. Typical career areas include Advanced Degree in Dairy Science, Business and Finance, Agriculture Promotion and Information, Dairy Food Industry, Agricultural Sales and Marketing, International Agriculture, Animal Production and General Agribusiness and Pre-Veterinary Medicine.

## Dairy Science, B.S. - pre-veterinary medicine option

<b>Freshman</b>			<b>Second Year</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	<b>Fall</b>	<b>Credits Spring</b>	<b>Credits Summer</b>
AN S 110	1 AN S 114	2	CHEM 231	3 BBMB 301	3 KIN 220 or H S 305
AN S 101	2 CHEM 177	4	CHEM 231L	1 BIOL 256	3
BIOL 211	3 CHEM 177L	1	BIOL 255	3 BIOL 256L	1
BIOL 211L	1 Humanities - elective list	3	BIOL 255L	1 FS HN 214	3
ENGL 150	3 SP CM 212, AGEDS 311, or COMST 214	3	PSYCH 230	3 FS HN 115 or 215	1-2
LIB 160	1 STAT 101 or 104 or 226	3-4	ENGL 250	3 FS HN 265	3
MATH 140, 150, 160, 165, or 181	3-4		MICRO 201	2	
Social Science - elective list	3			<b>16</b>	<b>14-15</b>
	<b>17-18</b>	<b>16-17</b>			<b>3</b>
<b>Sophomore</b>			<b>Third Year</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	<b>Fall</b>	<b>Credits Spring</b>	<b>Credits Summer</b>
AN S 211	1 AN S 210	1	FS HN 360	3 Acceptance into the graduate program required before spring semester of the third year.	KIN 699 or NUTRS 699 or KIN 599 or FS HN 599
			KIN 258	2 FS HN 361	2 STAT 401
			PHYS 111, or 115	4-5 FS HN 367	1
			SP CM 212	3 H S 380	3

## Diet and Exercise, B.S./M.S.

<b>First Year</b>					
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>			
FS HN 110 or KIN 252 and 253	1-2 FS HN 167	3			
CHEM 163 or 177	4 CHEM 178 (if CHEM 177 taken) or Elective	3			
CHEM 163L or 177L	1 BIOL 212	3			
BIOL 211	3 PSYCH 101	3			
ENGL 150	3 H S 110	3			
LIB 160	1				
MATH 140, 142, 160, 165, or 181	3-4				
	<b>16-18</b>	<b>15</b>			

STAT 101, 104, or 226	3-4 HRI 380	3	
	HRI 380L	2	
	KIN 259	2	
	KIN 358	3	
	<b>15-17</b>	<b>16</b>	<b>5</b>

**Fourth Year**

Fall	Credits Spring	Credits Summer	Credits
KIN 355, 360, 366, or 372	3 FS HN 411	2 KIN 699 or NUTRS 699 or KIN 599 or FS HN 599	3
KIN 501	3 KIN 462	3 FS HN 403	2
KIN 505	2 KIN 511 (odd years) or HRI 392	3	
KIN 558 (odd years) or NUTRS 563	3 Humanities/Ethics course	3	
NUTRS 561	4 NUTRS 564	3	
	<b>15</b>	<b>14</b>	<b>5</b>

**Fifth Year**

Fall	Credits Spring	Credits Summer	Credits
KIN 550 or 570	3 FS HN 466	3 KIN 699 or NUTRS 699 or KIN 599 or FS HN 599	1
NUTRS 501	4 FS HN 581	1	
NUTRS 563 or KIN 558 (odd years)	3 HRI 392 or KIN 551 (odd years)	3	
Humanities/International Perspectives	3 KIN 345	3	
	FS HN 590C (FSHN Dept.)	1	
	KIN 699 or NUTRS 699 or KIN 599 or FS HN 599	2	
	<b>13</b>	<b>13</b>	<b>1</b>

Total Credits: 161-166

Note: This sequence is only an example. The number of credits taken each semester should be based on the individual student's situation. Factors that may affect credit hours per semester include student ability, employment, health, activities, and grade point consideration.

## Dietetics, B.S.

**First Year**

Fall	Credits Spring	Credits
FS HN 110	1 FS HN 167	3
CHEM 163 or 177	4 CHEM 178 (if CHEM 177 taken) or elective *	3
CHEM 163L or 177L	1 BIOL 212	3
BIOL 211	3 BIOL 212L	1
MATH 140, 142, 160, 165 or 181	3 PSYCH 101	3
ENGL 150	3 Humanities Course	3
LIB 160	1	
	<b>16</b>	<b>16</b>

**Second Year**

Fall	Credits Spring	Credits
CHEM 231	3 BBMB 301 or BIOL 314	3
CHEM 231L	1 FS HN 265	3
BIOL 255	3 BIOL 306 or 355	3-4
BIOL 255L	1 MICRO 201	2
ENGL 250	3 MICRO 201L	1
FS HN 203	1 Elective *	3
STAT 101 or 104	3-4	
	<b>15-16</b>	<b>15-16</b>

**Third Year**

Fall	Credits Spring	Credits
FS HN 340	1 FS HN 362	3
FS HN 360	3 FS HN 367	1
FS HN 361	2 HRI 380	3
FS HN 214	3 HRI 380L	2
FS HN 115 or 215	1-2 FS HN 342	3
SP CM 212	3 Humanities course (H Sci) or Elective *	3
	(AgLS)	
Humanities/social sci. (H Sci) or ENV S (AgLS)	2-3	
	<b>15-17</b>	<b>15</b>

**Fourth Year**

Fall	Credits Spring	Credits
FS HN 461	4 FS HN 464	3
HRI 391	3 HRI 392	3
FS HN 411	2 FS HN 403	2
FS HN 463	3 FS HN 480	1
FS HN 466	3 Electives *	4-6
	<b>15</b>	<b>13-15</b>

Total Credits: 120-126

\* Choose elective courses to total equal to or greater than 120 credits.

Note: This sequence is only an example. The number of credits taken each semester should be based on the individual student's situation. Factors that may affect credit hours per semester include student ability, employment, health, activities, and grade point consideration.

## Environmental Science, B.S.

**Freshman**

Fall	Credits Spring	Credits
ENGL 150	3 BIOL 211 & 211L or Elective	3-4
ENSCI 110 <sup>1</sup>	1 CHEM 178	3
ENSCI 201 <sup>1</sup>	2 CHEM 178L	1
CHEM 177	4 MATH 160, 165 or 181	4
CHEM 177L	1 Social Science or Humanities Choice <sup>2</sup>	3
LIB 160	1	
STAT 101 or 104	3	
	<b>15</b>	<b>14-15</b>

**Sophomore**

Fall	Credits Spring	Credits
ENSCI 250 <sup>1</sup>	3 Organic Chemistry Choice <sup>3</sup>	3
Social Science or Humanities Choice <sup>2</sup>	3 Earth Science Choice <sup>3</sup>	3
PHYS 115	4 Social Science or Humanities Choice <sup>2</sup>	3
ENGL 250	3 Communications (Speech)	3
Elective	3 Elective	3
	<b>16</b>	<b>15</b>

**Junior**

Fall	Credits Spring	Credits
ENSCI 381 <sup>1</sup>	3-4 ENSCI 382 <sup>1</sup>	3
Environmental Science Choice <sup>1</sup>	3 Environmental Science Choice <sup>1</sup>	3
Social Science or Humanities Choice <sup>2</sup>	3 Social Science or Humanities Choice <sup>2</sup>	3
Elective	6 Electives	6
	<b>15-16</b>	<b>15</b>

**Senior**

Fall	Credits Spring	Credits
Environmental Science Choice <sup>1</sup>	3 Environmental Science Choice <sup>1</sup>	6
Elective	12 Elective	9
	<b>15</b>	<b>15</b>

Total Credits: 120-122

1 Students complete at least 27 credits in Environmental Science including ENSCI 110, 201, 250, 381, 382, and 15 additional credits of approved ENSCI coursework.

2 Students complete at least 15 credits in humanities and social science including at least 3 credits each in ethics, humanities, social science, U.S. Diversity, and International Perspectives from approved lists.



3 Students choose one course from the following Earth Science related courses: AGRON 154, AGRON 260, BIOL 212, GEOL 100, GEOL 201, MTEOR 206. Students choose from one of the following Organic Chemistry options: CHEM 231 & 231L, CHEM 331 & 331L, BBMB 221, or AGRON 259X.

## Food Science, B.S. - food science & industry option

First Year		
Fall	Credits Spring	Credits
FS HN 101	3 FS HN 167	3
FS HN 110	1 CHEM 178 (if CHEM 177 was taken) or Elective *	3
CHEM 163 or 177	4 BIOL 212	3
CHEM 163L or 177L	1 MATH 160, 165, or 181	4
BIOL 211	3 ECON 101	3
ENGL 150	3	3
LIB 160	1	1
	<b>16</b>	<b>16</b>
Second Year		
Fall	Credits Spring	Credits
CHEM 231	3 BBMB 301	3
CHEM 231L	1 TSM 115	3
PHYS 111, or 115	4-5 MICRO 201 or 302	2-3
ENGL 250	3 MICRO 201L or 302L	1
FS HN 203	1 Humanities/ Social Sci. (H Sci) or ENV S (AgLS)	2-3
STAT 101 or 104 or 105	3-4 Humanities (H Sci) or elective (AgLS) *	3
	<b>15-17</b>	<b>14-16</b>
Third Year		
Fall	Credits Spring	Credits
FS HN 311	3 FS HN 342	3
FS HN 311L	1 FS HN 351	3
FS HN 420	3 FS HN 403	2
FS HN 421	3 SP CM 212	3
Humanities course	3 Business Course	3
Elective *	3	3
	<b>16</b>	<b>14</b>
Fourth Year		
Fall	Credits Spring	Credits
FS HN 406	3 FS HN 405	3
FS HN 411	2 FS HN 410	3
FS HN 471	3 FS HN 412	3
U.S. Diversity (if not already taken) or Elective *	3 FS HN 472	3
Business Course	3 FS HN 480	1
	Elective *	2-3
	<b>14</b>	<b>15-16</b>

Total Credits: 120-125

\* Choose elective courses to total equal to or greater than 120 credits.

Note: This sequence is only an example. The number of credits taken each semester should be based on the individual student's situation. Factors that may affect credit hours per semester include student ability, employment, health, activities, and grade point considerations.

## Food Science, B.S. - food science & technology option

First Year		
Fall	Credits Spring	Credits
FS HN 110	1 FS HN 101	3
CHEM 177	4 FS HN 167	3
CHEM 177L	1 CHEM 178	3
BIOL 211	3 BIOL 212	3
ENGL 150	3 MATH 166 or 182	4

LIB 160	1	
MATH 165 or 181	4	
	<b>17</b>	<b>16</b>
Second Year		
Fall	Credits Spring	Credits
CHEM 331	3 CHEM 332	3
CHEM 331L	1 PHYS 112	5
PHYS 111	5 TSM 115	3
ENGL 250	3 STAT 101 or 104 or 105	3-4
MICRO 302	3 FS HN 203	1
MICRO 302L	1	1
	<b>16</b>	<b>15-16</b>
Third Year		
Fall	Credits Spring	Credits
BBMB 301	3 FS HN 342	3
FS HN 311	3 FS HN 351	3
FS HN 311L	1 FS HN 403	2
FS HN 420	3 ECON 101	3
FS HN 421	3 SP CM 212	3
Humanities course	3	3
	<b>16</b>	<b>14</b>
Fourth Year		
Fall	Credits Spring	Credits
FS HN 406	3 FS HN 405	3
FS HN 411	2 FS HN 410	3
FS HN 471	3 FS HN 412	3
Humanities/Social Sci. (H Sci) or ENV S (AgLS)	2-3 FS HN 472	3
Humanities (H Sci) or elective *	2-3 FS HN 480	1
US Diversity (if not already taken) or elective *	1-3	1
	<b>13-17</b>	<b>13</b>

Total Credits: 120-125

\* Choose elective courses to total equal to or greater than 120 credits.

Note: This sequence is only an example. The number of credits taken each semester should be based on the individual student's situation. Factors that may affect credit hours per semester include student ability, employment, health, activities, and grade point consideration.

## Food Science B.S. - consumer food science option

First Year		
Fall	Credits Spring	Credits
FS HN 101	3 FS HN 167	3
FS HN 110	1 CHEM 178 (if CHEM 177 taken) or Elective *	3
CHEM 163 or 177	4 BIOL 212	3
CHEM 163L or 177L	1 MATH 160, 165, or 181	4
BIOL 211	3 ECON 101	3
ENGL 150	3	3
LIB 160	1	1
	<b>16</b>	<b>16</b>
Second Year		
Fall	Credits Spring	Credits
CHEM 231	3 BBMB 301	3
CHEM 231L	1 FS HN 214 & 215, or FS HN 265 **	5
PHYS 111, or 115	4-5 TSM 115	3
ENGL 250	3 Humanities (H Sci) or Elective* (AgLS)	3
FS HN 203	1	1
STAT 101 or 104 or 105	3-4	3-4
	<b>15-17</b>	<b>14</b>
Third Year		
Fall	Credits Spring	Credits
FS HN 311	3 FS HN 342	3
FS HN 311L	1 FS HN 351	3
SP CM 212	3 FS HN 403	2

MICRO 201 or 302	2-3 JL MC 220, 305, 347; MKT 340, 447, or 448	3	*
MICRO 201L or 302L	1 Humanities/social sci. (H Sci) or ENV S (AgLS)	2-3	**
Humanities course	3 Elective *	3	***
<b>Fourth Year</b>	<b>13-14</b>	<b>16-17</b>	
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
FS HN 406	3 FS HN 405	3	
FS HN 411	2 FS HN 410	3	
FS HN 420	3 FS HN 412	3	
FS HN 421 or elective **	1-3 FS HN 480	1	
FS HN 471	3 JL MC 220, 305, 347; MKT 340, 447, or 448	3	
U.S. Diversity (if not already taken) or elective *	3 FS HN 472 or elective **	2-3	
	<b>15-17</b>	<b>15-16</b>	

Total Credits: 120-127

- \* Choose elective courses to total equal to or greater than 120 credits.
- \*\* Select a minimum of 5 credits from FS HN (214 and 215), 265, 421, or 472.

Note: This sequence is only an example. The number of credits taken each semester should be based on the individual student's situation. Factors that may affect credit hours per semester include student ability, employment, health, activities, and grade point consideration.

## Forestry, B.S. - forest ecosystem management option

<b>Freshman</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
BIOL 211	3 MATH 150	3	
BIOL 211L	1 CHEM 163	4	
NREM 110	1 CHEM 163L	1	
ENGL 150	3 STAT 101	4	
MATH 140 **	3 LIB 160	1	
NREM 120	3 NREM 211	1	
SOC 130/134	3 Free Elective	3	
	<b>17</b>	<b>17</b>	
<b>Sophomore</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
FOR 201	2 SP CM 212	3	
FOR 202	2 ENGL 250	3	
FOR 203	2 BIOL 212	3	
FOR 204	2 BIOL 212L	1	
FOR 205	3 FOR 280	4	
FOR 206	4 Free Elective	3	
	<b>15</b>	<b>17</b>	
<b>Junior</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
MATH 151/181	3 FOR 302	3	
FOR 356	4 FOR 451	4	
NREM 301	4 Required Electives	6	
NREM 345 or FOR 342	3 Free Elective	3	
Required Elective	3		
	<b>17</b>	<b>16</b>	
<b>Senior</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
FOR 342 or NREM 345	3 Policy Elective	3	
FOR 416	4 FOR 454	3	
FOR 452	3 Required Elective	3	
Communications Elective	3 Free Elective	6	
Free Electives	3		
	<b>16</b>	<b>15</b>	
Total Credits: 130			

\* To complete degree program in 4 years students must maintain an average of 16 credits per semester.

\*\* Initial math course is determined on the basis of high school math and placement test scores. A non-credit math course (MATH 10) may be required at additional course.

\*\*\* In scheduling coursework, students should pay particular attention to courses with limited offerings (e.g., offered only on alternate years) and to course sequences (i.e., where a course serves as a prerequisite for another course).

Note: In addition to coursework listed above, students must complete departmental requirements for Practical Work Experience requirement (NREM 104). See

## Genetics, B.S.

<b>Freshman</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
ENGL 150 or 250	3 ENGL 250 or Humanity Choice	3	
GEN 110	1 LIB 160	1	
BIOL 211	3 BIOL 212	3	
BIOL 211L	1 BIOL 212L	1	
CHEM 177	4 CHEM 178	3	
CHEM 177L	1 CHEM 178L	1	
MATH/STAT choice or Social Sciences Choice	3-4 MATH/STAT choice	3-4	
	<b>16-17</b>	<b>15-16</b>	
<b>Sophomore</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits Summer</b>	<b>Credits</b>
BIOL 313	3 SP CM 212	3 Consider Internship, Study Abroad	
BIOL 313L	1 BIOL 314	3	
CHEM 331	3 CHEM 332	3	
CHEM 331L	1 CHEM 332L	1	
US Diversity/Social Sciences Choice	3 MICRO 302	3	
MATH/STAT Choice *	3-4 MATH/STAT Choice or Social Sciences *	3	
	<b>14-15</b>	<b>16</b>	<b>0</b>
<b>Junior</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits Summer</b>	<b>Credits</b>
GEN 409	3 GEN 410	3 Consider Research with Faculty	
PHYS 111	5 PHYS 112	5	
BIOL 312	4 BIOL 315	3	
ENGL 302-316	3 International Perspective/Humanity	3	
Elective	0-3 GEN 491	1	
	<b>15-18</b>	<b>15</b>	<b>0</b>
<b>Senior</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
Advanced Science Elective, e.g. GEN 490R	3 GEN 462	3	
Elective or STAT 401	3 Elective or STAT 401	3	
BBMB 404	3 BBMB 405	3	
Ethics Choice	3 Social Sciences Choice or Elective	3	
Elective	0-3 Advanced Science Elective	3	
	<b>12-15</b>	<b>15</b>	
Total Credits: 118-127			

## Global Resource Systems, B.S.

<b>Freshman</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
GLOBE 110	1 MATH 140	3	
GLOBE 211	1 ENGL 250	3	
ENGL 150	3 GLOBE 201	3	
LIB 160	1 BIOL 211	3	
CHEM 163	4 BIOL 211L	1	
CHEM 163L	1 STAT 104	3	
ECON 101	3		
Humanities	3		
	<b>17</b>	<b>16</b>	
<b>Sophomore</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
GLOBE 211	1 GLOBE 301	3	
Technical Area	3 AGEDS 311 or SP CM 212	3	
Language	4 Language	4	

Global Politics or Global Culture	3	AGRON 154/155 or Geol 101	3
Elective	4	Technical Area	3
	<b>15</b>		<b>16</b>
<b>Junior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
GLOBE 302	3	Language	4
GLOBE 211	1	AGRON 342	3
ENGL 309	3	Global History or Global Culture	3
WLC course	3	Technical Area	3
Language	4	General Elective	3
US Diversity	3		
	<b>17</b>		<b>16</b>
<b>Senior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
GLOBE 321	3	GLOBE 401	3
Life Science	3	GLOBE 402	3
International Perspectives	3	Global Culture	3
Global Economics or Global Culture	3	Technical Area	3
Technical Area	3	General Elective	3
Generall Elective	2		
	<b>17</b>		<b>15</b>

Total Credits: 129

## Horticulture, B.S. - horticulture food crop production & management option

<b>Freshman</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ENGL 150	3	ENGL 250	3
CHEM 163	4	BIOL 211	3
CHEM 163L	1	HORT 221	3
MATH 140 or 150	3	AGRON 155	3
PSYCH or SOC	3	STAT 104	3
HORT 121	2	BIOL 211L	1
LIB 160	1		
HORT 110	1		
	<b>18</b>		<b>16</b>
<b>Sophomore</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
BIOL 212	3	Humanities	3
ECON 101	3	ENT 376	3
International Perspectives	3	PHYS 115	4
PL P 391	2	HORT 276X	3
AGRON 260	3	HORT 322	3
	<b>14</b>		<b>16</b>
<b>Junior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
General Elective	2	ACCT 284	3
US Diversity	3	General Elective	2
HORT 391	1	ENT 375	3
CHEM 231	3	SP CM 212 or AgEds 311	3
CHEM 231L	1	HORT 471	3
HORT 422	4	HORT 424	3
HORT 445	2		
	<b>16</b>		<b>17</b>
<b>Senior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
HORT 321	3	Elective	1
Option Class	3	HORT 461	3
General Elective	2	ACCT 285	3
Option Class	3	Hort Elective	3
HORT 391	1	Ethics/SOC 325	3
ENGL 302 or 314	3	HORT 354	3
	<b>15</b>		<b>16</b>

Total Credits: 128

## Horticulture, B.S. ornamental plant production and garden center and management option

<b>Freshman</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ENGL 150	3	ENGL 250	3
CHEM 163	4	BIOL 211	3
CHEM 163L	1	HORT 221	3
MATH 140 or 150	3	STAT 104	3
PSYCH or SOC	3	AGRON 155	3
HORT 121	2	BIOL 211L	1
LIB 160	1		
HORT 110	1		
	<b>18</b>		<b>16</b>
<b>Sophomore</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
BIOL 212	3	Humanity	3
ACCT 284	3	ENT 376	3
International Perspectives	3	PHYS 115	4
HORT 240	3	AGRON 260	3
HORT 332	4	Elective	2
	<b>16</b>		<b>15</b>
<b>Junior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
CHEM 231	3	US Diversity	3
CHEM 231L	1	HORT 322	3
HORT 422	4	HORT 435	4
HORT 342	3	SP CM 212 or AGEDS 311	3
PL P 391	2	ENT 375	3
HORT 434	4		
	<b>17</b>		<b>16</b>
<b>Senior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Elective	2	ECON 101	3
HORT 321	3	ACCT 285	3
HORT 445	2	ENGL 302 or 314	3
HORT 442	2	Ethics	3
Option	3	Elective	3
HORT 391	1		
HORT 330	3		
	<b>16</b>		<b>15</b>

Total Credits: 129

## Horticulture, B.S. - landscape design, installation, and management

<b>Freshman</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ENGL 150	3	ENGL 250	3
CHEM 163	4	BIOL 211	3
CHEM 163L	1	BIOL 211L	1
MATH 140 or 150	3	STAT 104	3
PSYCH or SOC	3	AGRON 155	3
LIB 160	1	HORT 221	3
HORT 121	2		
HORT 110	1		
	<b>18</b>		<b>16</b>
<b>Sophomore</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
BIOL 212	3	ENT 376	3
Elective	3	CHEM 231	3
AGRON 260	3	CHEM 231L	1
HORT 240	3	ACCT 284	3
Humanity	3	Elective	3
HORT 281	2	HORT 341	2
		Elective	2
	<b>17</b>		<b>17</b>
<b>Junior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
PL P 391	2	Option	3
AGEDS 311	3	ENGL 302 or 314	3

HORT 330	3 International Perspective	3	<b>Sophomore</b>
HORT 342	3 HORT 380	2	<b>Fall</b>
HORT 351	3 HORT 381	2	
HORT 391	1 Elective	3	
	<b>15</b>	<b>16</b>	
<b>Senior</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
PHYS 111	5 ACCT 285	3	
HORT 321	3 ECON 101	3	
HORT 391	1 Ethics	3	
HORT 444	3 US Diversity	3	
HORT 445	2 Elective	1	
HORT 481	2 Elective	3	
	<b>16</b>	<b>16</b>	

Total Credits: 131

### Horticulture, B.S. - public horticulture option

<b>Freshman</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
ENGL 150	3 ENGL 250	3	
CHEM 163	4 BIOL 211	3	
CHEM 163L	1 HORT 221	3	
MATH 140 or 150	3 AGRON 155	3	
ECON 101	3 STAT 104	3	
HORT 121	2 BIOL 211L	1	
LIB 160	1		
HORT 110	1		
	<b>18</b>	<b>16</b>	
<b>Sophomore</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
BIOL 212	3 Elective	1	
HORT 240	3 BIOL 366	4	
ENT 375	3 Humanities	3	
ACCT 284	3 HORT 322	3	
CHEM 231	3 PHYS 115	4	
CHEM 231L	1		
	<b>16</b>	<b>15</b>	
<b>Junior</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
AGEDS 311 or SP CM 212	3 JL MC 220	3	
HORT 342	3 HORT 283	2	
HORT 391	1 ENGL 302 or 314	3	
US Diversity	3 ENGL 303	3	
PL P 391	2 HORT 282	3	
Elective	2 Elective	2	
HORT 321	3		
	<b>17</b>	<b>16</b>	
<b>Senior</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
International Perspectives	3 AGRON 260	3	
HORT 330	3 Elective	1	
MGMT 370	3 ENGL 309	3	
HORT 445	2 HORT 424	3	
ENGL 313	3 Ethics	3	
HORT 391	1 ENT 376	3	
	<b>15</b>	<b>16</b>	

Total Credits: 129

### Horticulture, B.S. - science option

<b>Freshman</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
ENGL 150	3 ENGL 250	3	
CHEM 177	4 BIOL 211	3	
CHEM 177L	1 AGRON 155	3	
MATH 165 or 181	3 HORT 221	3	
PSYCH or SOC	3 STAT 104	3	
HORT 121	2 BIOL 211L	1	
LIB 160	1		
HORT 110	1		
	<b>18</b>	<b>16</b>	

			<b>Credits Spring</b>	<b>Credits</b>
			3 MATH 166 or 182	3
			3 BIOL 330	3
			1 Option	3
			3 CHEM 331	3
			1 CHEM 331L	1
			5 HORT Elective	3
			<b>16</b>	<b>16</b>
			<b>Credits Spring</b>	<b>Credits</b>
			3 HORT Elective	3
			3 HORT 322	3
			1 ENGL 302 or 314	3
			3 CHEM 332	3
			3 CHEM 332L	1
			1 PHYS 112	5
			3	
			<b>17</b>	<b>18</b>
			<b>Senior</b>	
			<b>Fall</b>	<b>Credits Spring</b>
			HORT Elective	3
			3 US Diversity	3
			3 PL P 408	3
			2 HORT Elective	2
			3 GEN 410	3
			3 Ethics Elective	3
			1 General Elective	1
			<b>15</b>	<b>15</b>

Total Credits: 131

### Horticulture, B.S. - turfgrass management option

<b>Freshman</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
ENGL 150	3 ENGL 250	3	
CHEM 163	4 BIOL 211	3	
CHEM 163L	1 STAT 104	3	
MATH 140 or 150	3 AGRON 155	3	
PSYCH or SOC	3 HORT 221	3	
HORT 121	2 BIOL 211L	1	
LIB 160	1		
HORT 110	1		
	<b>18</b>	<b>16</b>	
<b>Sophomore</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
BIOL 212	3 AGRON 260	3	
HORT 240	3 HORT 322	3	
Humanities	3 PHYS 115	4	
ACCT 284	3 HORT 551	2	
HORT 351	3 PL P 452	3	
HORT 351L	1		
	<b>16</b>	<b>15</b>	
<b>Junior</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
HORT 454	3 ENT 376	3	
HORT 321	3 SpCm 212, AgEds 311	3	
Elective	1 HORT 451	2	
PL P 391	2 HORT 424	3	
CHEM 231	3 Elective	2	
CHEM 231L	1 International Perspectives	3	
US Diversity	3		
HORT 391	1		
	<b>17</b>	<b>16</b>	
<b>Senior</b>			
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>	
AGRON 206	3 Option Elective	3	
AGRON 317	3 AGRON 354	3	
HORT 391	1 Elective	3	
HORT 453	3 ENGL 302 or 314	3	
HORT 342	3 Ethics Elective	3	

HORT 445	2	
Elective	1	
	<b>16</b>	<b>15</b>

Total Credits: 129

## Industrial Technology, B.S. - manufacturing option

First Year			
Fall	Credits Spring	Credits	
TSM 110	1 TSM 111	1	
TSM 116	3 TSM 115	3	
ENGL 150	3 MATH 160	4	
LIB 160	1 PHYS 111	5	
MATH 142	3 ECON 101	3	
CHEM 163	4		
CHEM 163L	1		
	<b>16</b>	<b>16</b>	
Second Year			
Fall	Credits Spring	Credits	
TSM 201	1 TSM 216	3	
TSM 210	3 STAT 104	3	
TSM 240	3 BIOL 101 or BIOL 210	3	
TSM 270	3 International Perspective - See list*	3	
ENGL 250	3 SP CM 212, COMST 214, or AGEDS 311	3	
	<b>13</b>	<b>15</b>	
Third Year			
Fall	Credits Spring	Credits Summer	Credits
TSM 340	3 TSM 310	3 TSM 397	0
ACCT 284	3 TSM 337	3	
US Diversity - See list*	3 TSM 363	4	
ENGL 302, ENGL 309, ENGL 314, or AGEDS 327	3 TSM 370 (Ethics requirement)	3	
Life Sciences - See list*	3 Humanities - See list*	3	
	<b>15</b>	<b>16</b>	<b>0</b>
Fourth Year			
Fall	Credits Spring	Credits	
TSM 399	2 TSM 416	5	
TSM 415	1 TSM 443	3	
TSM 440	3 TSM 465	3	
TSM 444	3 Elective	3	
Elective	6		
	<b>15</b>	<b>14</b>	

Total Credits: 120

\* See list - Speak with an academic adviser for options for each list.

## Industrial Technology, B.S. - occupational safety option

First Year			
Fall	Credits Spring	Credits	
TSM 110	1 TSM 111	1	
TSM 116	3 TSM 115	3	
ENGL 150	3 MATH 160	4	
LIB 160	1 PHYS 111	5	
MATH 142	3 BIOL 101 or BIOL 211	3	
CHEM 163	4		
CHEM 163L	1		
	<b>16</b>	<b>16</b>	
Second Year			
Fall	Credits Spring	Credits	
TSM 201	1 TSM 240	3	
TSM 210	3 TSM 371	2	
TSM 270	3 STAT 104	3	
H S 105	2 BIOL 155	3	
ECON 101	3 SP CM 212, COMST 214, or AGEDS 311	3	
ENGL 250	3		
	<b>15</b>	<b>14</b>	
Third Year			
Fall	Credits Spring	Credits Summer	Credits
TSM 372**	2 TSM 310	3 TSM 397	0

ACCT 284	3 TSM 363	4	
PSYCH 250	3 TSM 370	3	
ENGL 302, ENGL 309, ENGL 314, or AGEDS 327	3 International Perspective - See list*	3	
US diversity - See list*	3 Humanities - See list*	3	
	<b>14</b>	<b>16</b>	<b>0</b>

### Fourth Year

Fall	Credits Spring	Credits	
TSM 376#	3 TSM 416	5	
TSM 399	2 TSM 470##	3	
TSM 415	1 TSM 471##	1	
TSM 477#	3 Elective	5	
Elective	6		
	<b>15</b>	<b>14</b>	

Total Credits: 120

\* See list - Speak with an academic adviser for options for each list.

\*\* TSM 372 - odd years, Fall only (Fall 2013, Fall 2015, etc.)

# TSM 376 - even years, Fall only (Fall 2014, Fall 2016, etc.)

TSM 477 - even years, Fall only (Fall 2014, Fall 2016, etc.)

## TSM 470 - even years, Spring only (Spring 2014, Spring 2016, etc.)

TSM 471 - even years, Spring only (Spring 2014, Spring 2016, etc.)

## Microbiology, B.S.

First Year			
Fall	Credits Spring	Credits	
ENGL 150 or 250	3 MICRO 302	3	
MICRO 110	0.5 MICRO 302L	1	
MICRO 101	3 BIOL 212	3	
BIOL 211	3 BIOL 212L	1	
BIOL 211L	1 CHEM 178	3	
CHEM 177	4 STAT 104	3	
CHEM 177L	1 Social Science choice	3	
LIB 160	1		
	<b>16.5</b>	<b>17</b>	
Second Year			
Fall	Credits Spring	Credits	
MICRO 310	3 MICRO Environmental or Elective	3	
MICRO 310L	1 BIOL 313	3	
CHEM 331	3 BIOL 313L	1	
CHEM 331L	1 CHEM 332	3	
MATH 142 or Calc I (MATH 165 or 181)	3-4 Gen Calculus or Calc II (MATH 160 or 166 or 182)	4	
ENGL 250	3 Humanities choice	3	
	<b>14-15</b>	<b>17</b>	
Third Year			
Fall	Credits Spring	Credits	
MICRO Environmental or Elective	3 MICRO 320	4	
PHYS 111	5 PHYS 112	5	
BIOL 314	3 Advanced English	3	
SP CM 212	3 International Perspectives	3	
Gen Elective	3		
	<b>17</b>	<b>15</b>	
Fourth Year			
Fall	Credits Spring	Credits	
MICRO 440	4 MICRO elective	3	
MICRO elective	3 MICRO 450	2	
MICRO 451	0 BBMB 405	3	
ETHICS choice	3 Social Science choice	3	
BBMB 404	3 Gen Electives	5	
US Diversity	3		
	<b>16</b>	<b>16</b>	

Total Credits: 128.5-129.5

## Nutritional Science, B.S. - pre-health professional & research option

Freshman		Credits	Credits
Fall	Spring	Fall	Spring
FS HN 110	1 FS HN 167	3	
CHEM 177	4 CHEM 178	3	
CHEM 177L	1 CHEM 178L	1	
BIOL 211	3 BIOL 212	3	
BIOL 211L	1 BIOL 212L	1	
ENGL 150	3 MATH 140, 142, 160, 165, or 181	3-4	
LIB 160	1		
Humanities	3		
	<b>17</b>	<b>14-15</b>	
Sophomore		Credits	Credits
Fall	Spring	Fall	Spring
CHEM 331	3 CHEM 332	3	
CHEM 331L	1 CHEM 332L	1	
BIOL 313	3 BIOL 314, BBMB 301, or BBMB 316	3	
STAT 101 or 104	3-4 FS HN 265	3	
ENGL 250	3 FS HN 203	1	
SP CM 212	3 Social Science	3	
	<b>16-17</b>	<b>14</b>	
Junior		Credits	Credits
Fall	Spring	Fall	Spring
BIOL 255	3 BIOL 306 or 335	3-4	
BIOL 255L	1 FS HN 362	3	
FS HN 360	3 MICRO 201 or 302	2-3	
FS HN 361	2 MICRO 201L or 302L	1	
Humanities course (H Sci) or elective *	3 Humanities/ Social Sci. (H Sci) or ENV S (AgLS)	2-3	
FS HN 342	3 Additional FS HN course (from approved list) **	3	
	<b>15</b>	<b>14-17</b>	
Senior		Credits	Credits
Fall	Spring	Fall	Spring
FS HN 419 or 420	3 ENGL 314	3	
FS HN 480	1 FS HN 467	3	
FS HN 492	2 Additional FS HN course (from approved list) **	3	
Additional FS HN course (from approved list) **	3 US Diversity (if not already taken) or elective *	3	
Additional FS HN course (from approved list) **	3 Elective *	3	
Elective *	3		
	<b>15</b>	<b>15</b>	

Total Credits: 120-125

\* Choose elective courses to total equal to or greater than 120 credits.

\*\* Select at least 12 additional credits from: FS HN 242, 365, 367, 403, 461, 463, 464, 466, 490C, 499, 575; NUTRS 501, 503, 504, 562.

Note: This sequence is only an example. The number of credits taken each semester should be based on the individual student's situation. Factors that may affect credit hours per semester include student ability, employment, health, activities, and grade point consideration.

## Nutritional Science, B.S. - nutritional & wellness option

First Year		Credits	Credits
Fall	Spring	Fall	Spring
FS HN 110	1 FS HN 101	3	
CHEM 163 or 177	4 FS HN 167	3	

CHEM 163L or 177L	1 BIOL 212	3	
BIOL 211	3 BIOL 212L	1	
BIOL 211L	1 MATH 140, 142, 160, 165, or 181	3-4	
ENGL 150	3 PSYCH 101 or 230	3	
LIB 160	1		
	<b>14</b>	<b>16-17</b>	
Second Year		Credits	Credits
Fall	Spring	Fall	Spring
FS HN 111	2 BIOL 173 or GLOBE 201	3	
FS HN 115	1 FS HN 203	1	
FS HN 264	3 FS HN 242	3	
BIOL 255	3 FS HN 265	3	
BIOL 255L	1 BIOL 256	3	
ENGL 250	3 BIOL 256L	1	
Humanities course	3		
	<b>16</b>	<b>14</b>	
Third Year		Credits	Credits
Fall	Spring	Fall	Spring
FS HN 364	3 FS HN 342	3	
HORT 221 or AGRON 114	3 FS HN 361	2	
POL S 215	3 FS HN 365	3	
SP CM 212	3 FS HN 366	3	
STAT 101 or 104	3-4 Humanities (H Sci) or ENV S (AgLS)	2-3	
	US Diversity (if not already taken) or elective *	3	
	<b>15-16</b>	<b>16-17</b>	
Fourth Year		Credits	Credits
Fall	Spring	Fall	Spring
FS HN 463	3 FS HN 403	2	
POL S 344	3 FS HN 480	1	
MICRO 201	2 FS HN 495	2	
MICRO 201L	1 300-400 level elective course *	3	
300-400 level elective course *	3 300-400 level elective course *	3	
Elective *	3 Electives *	3-4	
	<b>15</b>	<b>14-15</b>	

Total Credits: 120-124

\* Choose elective courses to total 120 credits or more. At least 9 credits of electives must be 300-400 level courses.

Note: This sequence is only an example. The number of credits taken each semester should be based on the individual student's situation. Factors that may affect credit hours per semester include student ability, employment, health, activities, and grade point consideration.

## Public Service and Administration in Agriculture, B.S.

Freshman		Credits	Credits
Fall	Spring	Fall	Spring
SOC 110	0 ENGL 250	3	
ENGL 150	3 MATH 150	3	
LIB 160	1 SOC 130	3	
BIOL 101	3 ECON 102	3	
ECON 101	3 Agriculture Science Elective	3	
ECON 101L	1		
POL S 215	3		
Agricultural Science Elective	3		
	<b>17</b>	<b>15</b>	
Sophomore		Credits	Credits
Fall	Spring	Fall	Spring
POL S 310	3 JL MC 305	3	
STAT 101	4 SOC 325	3	
SOC 380 or 382	3 SP CM 212	3	
Physical Science Elective	3 Ethics Elective	3	

Area of Concentration	3 Physical Science Elective	3
	Area of Concentration	3
	<b>16</b>	<b>18</b>
<b>Junior</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
SOC 415	3 POL S 475	3
POL S 371	3 Political Science Elective	3
ENV S 120 or 173	3 International Perspective Elective	3
US Diversity Elective	3 Area of Concentration	3
Area of Concentration	3 Free Electives	3
Free Electives	2	
	<b>17</b>	<b>15</b>
<b>Senior</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
ECON 235 or 380	3 ECON 344 or ACCT 384	3
SOC 464	3 AGEDS 451	4
Agricultural Science Elective	3 Humanities Elective	4
Area of Concentration	3 Free Elective	6
Free Electives	3	
	<b>15</b>	<b>17</b>
<hr/>		
Total Credits: 130		