

Department of

Applied Plant Science



Nels Hansen, Department Chair
Greg Blaser, Daniel Dewey, Nels Hansen, Chris D. Humphreys,
Byron John, Justin Maughan, Reese Nelson, Ben Romney, Ross
Spackman, Larry Stephens, Jerry Toll, Jared Williams, Blake Willis

Forrest Barnes, Greenhouse/Garden Manager

Alvin Lusk, Ag Resource Manager

Mitzi Pruitt, Dept. Secretary, Benson 144, (208) 496-4581
<http://www.byui.edu/applied-plant-science/>

Department Description

The Department of Applied Plant Science emphasizes the relationship between the art and science of plant culture. This relationship affects production on thousands of acres as well as on a smaller, more urban scale in residential gardens, and in the ornamental use of plants where art is specifically emphasized. In all these areas, plants are an integral part of the human experience. The emphasis on both production and aesthetics in the department's degrees and programs has prophetic roots:

"There is a great work for the Saints to do. Progress, and improve upon and make beautiful everything around you. Cultivate the earth, and cultivate your minds. Build cities, adorn your habitations, make gardens, orchards, and vineyards, and render the earth so pleasant that when you look upon your labors you may do so with pleasure, and that angels may delight to come and visit your beautiful locations." Brigham Young, Deseret News, Aug. 8, 1860, 177.

Students in these programs apply scientific knowledge to practical, hands-on experience in the Thomas E Ricks Gardens and Greenhouses, the Hill View Farm, the Plant Shop, the Ag Shop (Ag Engineering Building), and The Flower Center. They also provide produce and ornamentation for the BYU Idaho campus, events, community and local farmers markets. The department focuses on learning how plants grow, how to propagate them, and how to prepare them for consumer use. From basic plant science, to artistic embellishments for life events, this department offers a buffet of opportunities to improve the quality of life.

Horticulture

The Horticulture Program is a nationally recognized and accredited leader in horticulture education preparing students for expanding career opportunities in nurseries, garden centers, florist shops, floral wholesalers, plant brokers, landscape contractors, lawn service companies, interior plant companies, greenhouses, golf courses, parks, botanical gardens, landscape management, event planning, design build, plant production, plant breeding, horticulture sales and marketing, and horticulture supply companies.

Agronomy, Crop, and Soil Science

The Agronomy, Crop, and Soil Science Program provides excellent connections with local and international Agricultural companies doing research through the farm on campus, as well as coordinating internship and employment opportunities throughout their network in the industry. Employment opportunities for students with a background in Agriculture are excellent. Examples of career opportunities available are specialists in crop consulting, plant genetics, soil and water, environmental science, GPS/GIS, machinery management, agronomy, education, food processing, plant nutrition, food safety, range resource management, government agency workers and researchers. Internships are an integral component of the various programs in the Applied Plant Science Department. They are a doorway to the industry, and provide students with practical exposure to real world applications of plant studies.

Agriculture Technology

The Agriculture Technology Program prepares students for a career in the technical and mechanical world of agriculture. Rapid mechanization of the industry over the past two generations has made shop work a larger and more essential part of agriculture operations. Students will attain skills needed to diagnose, repair, and maintain all equipment related to agriculture systems. In addition, learning the technology of global positioning systems and geographical information systems will prepare technicians in all aspects of equipment operation and maintenance.

Students who seek advanced degrees find opportunities in education, research, extension, and government service. Several graduates of this department have gone on to advanced degrees in Landscape Architecture, Agriculture Engineering, Agronomy, and other industry certification. Students who like plants, have a desire to improve the world around them, and enjoy applying the law of the harvest will benefit from their time in the programs of Applied Plant Science. From seed to bouquet, from farm to table, the principles of the plant's potential are the core of this Department.

AAS in Plant Science and Technology (365)

Core Courses	Supplemental Courses	Cont. from previous column	Cont. from previous column	Program Notes:	
<i>Take these courses:</i>	<i>Take 31 credits:</i>	<i>AGTEC 122</i>	<i>APS 290R</i>	<ul style="list-style-type: none"> •No Double Counting of Major Courses •No Grade Less Than C- in Major Courses 	
APS 122 4	AGBUS 210 3	AGTEC 124 2	APS 299R 0.5		
APS 220 3	AGBUS 347 3	AGTEC 132 2	APS 310 2		
APS 220L 1	AGRON 321 4	AGTEC 186 1	APS 312 2		
AGTEC 220 1	AGRON 325 3	AGTEC 230 2	APS 339R 1		
9	AGRON 330 3	AGTEC 290R 1-3	APS 350 3		
<i>Take 1 course:</i>	AGRON 425 3	AGTEC 294 3	APS 387R 1		
AGTEC 286 3	AGRON 435 3	AGTEC 301 4	APS 397R 1-2		
GEOG 230 3	AGRON 440 3	AGTEC 320 3	APS 412 2		
3	AGRON 445 2	AGTEC 335 4	APS 413 1		
3	AGRON 455 3	AGTEC 360 4	APS 465 3		
	AGRON 460 3	AGTEC 474 3	WELD 101 3		
	AGRON 470 3	AGTEC 486 3	31		
	<i>Cont. in next column</i>	APS 103 3			
		<i>Cont. in next column</i>			
Credit Requirements:		Tracks Available:			
Foundations	17	Fall-Winter	Yes		
Major	<u>43</u>	Winter-Spring	Yes		
Total	60	Spring-Fall	Yes		

AAS in Horticulture (372)

Core Courses	Seminar	Elective Courses	Cont. from previous column	Program Notes:	
<i>Take these courses:</i>	<i>Take 2 times:</i>	<i>Take 15 credits:</i>	<i>HORT 334</i>	<ul style="list-style-type: none"> •No Double Counting of Major Courses 	
APS 122 4	APS 299R 0.5	AGBUS 232 3	HORT 338R 3		
APS 220 3	1	AGTEC 220 1	HORT 340 2		
APS 220L 1	Internship	APS 103 3	HORT 351 2		
APS 412 2	<i>Take this course for 1 credit:</i>	APS 310 2	HORT 410 3		
HORT 230 3	APS 398R 1.5	APS 312 2	HORT 430 3		
HORT 297R 1	1	APS 339R 1	HORT 455 2		
HORT 319 3		APS 350 3	HORT 460 2		
HORT 320 3		APS 413 1	HORT 461 2		
HORT 322 3		HORT 252 4	HORT 470 2		
HORT 335 3		HORT 311 2	15		
26		HORT 325 2			
		HORT 329 3			
		<i>Cont. in next column</i>			
Credit Requirements:		Tracks Available:			
Foundations	17	Fall-Winter	Yes		
Major	<u>43</u>	Winter-Spring	Yes		
Total	60	Spring-Fall	Yes		

AAS in Floral Design (373)

Core Courses	Seminar	Elective Courses	Cont. from previous column	Program Notes:	
<i>Take these courses:</i>	<i>Repeat 2 times:</i>	<i>Take 18 credits:</i>	<i>HFED 110</i>	<ul style="list-style-type: none"> •No Double Counting of Major Courses 	
APS 122 4	APS 299R 0.5	AGBUS 232 3	HFED 140 3		
APS 339R 1	1	APS 103 3	HORT 230 3		
HORT 287R 1	Internship	APS 220 3	HORT 287R 1		
HORT 297R 1	<i>Take this course for 1 credit:</i>	APS 220L 1	HORT 320 3		
HORT 322 3	APS 398R 1.5	APS 290R 1-3	HORT 324 2		
HORT 325 2	1	APS 310 2	HORT 334 3		
HORT 335 3		APS 312 2	HORT 338R 3		
HORT 336 2		APS 339R 1	HORT 460 2		
HORT 338R 3		APS 412 2	SPAN 101 4		
HORT 435 3		APS 413 1	18		
23		ART 101 3			
		AUTO 100 1			
		AUTO 125 1			
		B 275 3			
		B 283 3			
		<i>Cont. in next column</i>			
Credit Requirements:		Tracks Available:			
Foundations	17	Fall-Winter	Yes		
Major	<u>43</u>	Winter-Spring	Yes		
Total	60	Spring-Fall	Yes		

BS in Agronomy, Crop and Soil Sciences (642)				
Core Courses <i>Take these courses during your first 2 semesters:</i> APS 122 4 APS 220 3 APS 220L 1 APS 398R 1-5 CHEM 101 <u> 3 </u> 12 Seminar <i>Take 2 times:</i> APS 299R <u> 0.5 </u> 1	Take these courses: AGRON 321 4 AGRON 325 3 AGRON 470 3 APS 387R 1 APS 397R <u> 1-2 </u> 12 Take 1 course: AGTEC 286 3 GEOG 230 <u> 3 </u> 3	Agronomy Courses <i>Take 27 credits:</i> AGRON 330 3 AGRON 425 3 AGRON 430 3 AGRON 435 3 AGRON 440 3 AGRON 445 2 AGRON 455 3 AGRON 460 3 AGTEC 186 1 AGTEC 220 1 AGTEC 320 3 AGTEC 486 3 <i>Cont. in next column</i>	Cont. from previous column APS 103 3 APS 310 2 APS 312 2 APS 350 3 APS 412 2 APS 413 1 APS 465 3 BIO 331 <u> 3 </u> 27	Program Notes: •No Double Counting of Major Courses •No Grade Less Than C- in Major Courses
Credit Requirements:			Tracks Available:	
Foundations	40		Fall-Winter	Yes
Major	55		Winter-Spring	Yes
Elective	<u> 25 </u>		Spring-Fall	Yes
Total	120			

BS in Agriculture Technology (644)				
Core Courses <i>Take these courses:</i> APS 122 4 AGTEC 186 1 AGTEC 220 1 AGTEC 320 3 AGTEC 360 4 AGTEC 486 3 APS 220 3 APS 220L 1 APS 398R <u> 1-5 </u> 21	Take 1 course: AGTEC 286 3 GEOG 230 <u> 3 </u> 3 Seminar <i>Take 2 times:</i> APS 299R <u> 0.5 </u> 1	Supplemental Courses <i>Take 30 credits:</i> AGED 460 2 AGRON 325 3 AGTEC 122 2 AGTEC 124 2 AGTEC 125 3 AGTEC 132 2 AGTEC 230 2 AGTEC 294 3 AGTEC 301 4 AGTEC 335 4 <i>cont. next column</i>	cont. previous column AGTEC 474 3 APS 103 3 APS 387R 1 APS 397R 1 ARCH 100 1 AUTO 131 3 AUTO 132 3 AUTO 221 3 AUTO 231 3 HORT 329 3 WELD 101 <u> 3 </u> 30	Program Notes: •No Double Counting of Major Courses •No Grade Less Than C- in Major Courses
Credit Requirements:			Tracks Available:	
Foundations	40		Fall-Winter	Yes
Major	55		Winter-Spring	Yes
Elective	<u> 25 </u>		Spring-Fall	Yes
Total	120			

BS in Horticulture				
Design/Build/Maintain Emphasis (695-14)				
Core Courses <i>Take these course:</i> APS 122 4 APS 220 3 APS 220L 1 APS 412 2 HORT 230 3 HORT 297R 1 HORT 320 3 HORT 322 3 HORT 324 2 HORT 335 <u> 3 </u> 25	Seminar <i>Take 2 times:</i> APS 299R <u> 0.5 </u> 1 Internship <i>Take this course for 1 credit:</i> APS 398R <u> 1-5 </u> 1	Emphasis Courses <i>Take 28 credits:</i> AGBUS 232 3 AGRON 325 3 AGTEC 122 2 AGTEC 124 2 AGTEC 220 1 APS 103 3 APS 290R 1-3 APS 310 2 APS 312 2 APS 339R 1 APS 350 3 APS 387R 1 APS 397R 1-2 APS 413 1 APS 498R 1-5 ENG 316 3 HORT 252 4 HORT 311 2 <i>cont. in next column</i>	cont. from previous column HORT 319 3 HORT 325 2 HORT 329 3 HORT 334 3 HORT 336 2 HORT 338R 3 HORT 350R 1 HORT 351 2 HORT 375 1 HORT 435 3 HORT 436 1 HORT 437 1 HORT 410 3 HORT 430 3 HORT 453 3 HORT 455 2 HORT 460 2 HORT 461 2 HORT 470 <u> 2 </u> 28	Recommended courses for this emphasis: HORT 252 4 HORT 319 3 HORT 329 3 HORT 351 2 HORT 410 3 HORT 430 3 HORT 453 3 Program Notes: •No Double Counting of Major Courses
Credit Requirements:			Tracks Available:	
Foundations	40		Fall-Winter	Yes
Major	55		Winter-Spring	Yes
Elective	<u> 25 </u>		Spring-Fall	Yes
Total	120			

BS in Horticulture				
Production Emphasis (695-15)				
Core Courses	Seminar	Emphasis Courses	<i>cont. from previous column</i>	Recommended Courses for this emphasis:
<i>Take these courses:</i>	<i>Take 2 times:</i>	<i>Take 28 credits:</i>		
APS 122 4	APS 299R 0.5	AGBUS 232 3	HORT 325 2	AGBUS 232 3
APS 220 3	1	AGTEC 122 2	HORT 329 3	APS 350 3
APS 220L 1		AGTEC 124 2	HORT 334 3	HORT 325 2
APS 412 2	Internship	AGTEC 220 1	HORT 336 2	HORT 334 3
HORT 230 3	<i>Take this course for 1 credit:</i>	APS 103 3	HORT 338R 3	HORT 375 1
HORT 297R 1	APS 398R 1.5	APS 290R 1-3	HORT 350R 1	HORT 455 2
HORT 320 3	1	APS 310 2	HORT 351 2	HORT 460 2
HORT 322 3		APS 312 2	HORT 375 1	HORT 461 2
HORT 324 2		APS 339R 1	HORT 410 3	HORT 470 2
HORT 335 3		APS 350 3	HORT 430 3	
25		APS 387R 1	HORT 435 3	
		APS 397R 1-2	HORT 436 1	
		APS 413 1	HORT 437 1	
		APS 498R 1-5	HORT 453 3	
		ENG 316 3	HORT 455 2	
		HORT 252 4	HORT 460 2	
		HORT 311 2	HORT 461 2	
		HORT 319 3	HORT 470 2	
		<i>cont. next column</i>	28	
Credit Requirements:			Tracks Available:	
Foundations 40			Fall-Winter Yes	
Major 55			Winter-Spring Yes	
Elective 25			Spring-Fall Yes	
Total 120				
<i>Program Notes:</i>				
•No Double Counting of Major Courses				

BS in Horticulture				
Floral Design Emphasis (695-16)				
Core Courses	Seminar	<i>Cont. from previous column</i>	<i>Cont. from previous column</i>	Recommended courses for this emphasis:
<i>Take these courses:</i>	<i>Repeat 2 times:</i>			
APS 122 4	APS 299R 0.5	APS 339R 1	HORT 334 3	AGBUS 232 3
APS 220 3	1	APS 350 3	HORT 336 2	APS 339R 1
APS 220L 1		APS 387R 1	HORT 338R 3	HORT 287R 1
APS 412 2	Internship	APS 397R 1-2	HORT 351 2	HORT 325 2
HORT 230 3	<i>Take this course for 1 credit:</i>	APS 413 1	HORT 375 1	HORT 336 2
HORT 297R 1	APS 398R 1.5	AUTO 100 1	HORT 410 3	HORT 338R 3
HORT 320 3	1	AUTO 125 1	HORT 430 3	HORT 435 3
HORT 322 3		ENG 316 3	HORT 435 3	HORT 436 1
HORT 324 2	Emphasis Courses	HFED 110 2	HORT 436 1	HORT 437 1
HORT 335 3	<i>Take 28 credits</i>	HFED 140 3	HORT 437 1	
25	AGBUS 232 3	HORT 252 4	HORT 453 3	
	APS 103 3	HORT 287R 1	HORT 455 2	
	APS 290R 1-3	HORT 311 2	HORT 460 2	
	APS 310 2	HORT 319 3	HORT 461 2	
	APS 312 2	HORT 325 2	HORT 470 2	
	<i>Cont. in next column</i>	HORT 329 3	WELD 101 3	
		<i>Cont. in next column</i>	28	
Credit Requirements:			Tracks Available:	
Foundations 40			Fall-Winter Yes	
Major 55			Winter-Spring Yes	
Elective 25			Spring-Fall Yes	
Total 120				
<i>Program Notes:</i>				
No Double Counting of Major Courses				

BS in Agriculture Education Composite (825)				
Education Core <i>Take these courses:</i> ED 200 2 ED 304 3 ED 461 3 ED 492 10 SPED 360 2 <hr style="width: 100%;"/> 20 Core Courses <i>Take 1 course:</i> ACCTG 180 3 AGBUS 201 3 <hr style="width: 100%;"/> 3 Animal Science Courses <i>Take 1 course:</i> AS 340 4 AS 360 4 <hr style="width: 100%;"/> 4	Supplemental Courses <i>Take these courses:</i> AGBUS 210 3 AGBUS 347 3 AGED 297 2 AGED 460 2 APS 122 4 APS 220 3 APS 220L 1 AGTEC 122 2 AGTEC 286 3 AS 150 3 AS 220 3 AS 336 3 HORT 320 3 HORT 334 3 WELD 101 3 <hr style="width: 100%;"/> 41	<i>Take 1 course:</i> AGED 380 3 HFED 380 3 <hr style="width: 100%;"/> 3 <i>Take 1 course:</i> AGED 450 2 HFED 450 3 <hr style="width: 100%;"/> 2 <i>Take 1 course:</i> AGED 452 3 HFED 405 3 <hr style="width: 100%;"/> 3	Technology Courses <i>Take 4 credits:</i> AGTEC 124 2 AGTEC 220 1 AGTEC 320 3 AGTEC 335 4 AGTEC 360 4 <hr style="width: 100%;"/> 4	Program Notes: •No Double Counting of Major Courses •No Grade Less Than C- in Major Courses
Credit Requirements:		Tracks Available:		
	Foundations 40 Major 60 Education Core 20 <hr style="width: 100%;"/> Total 120		Fall-Winter Yes Winter-Spring Yes Spring-Fall No	

Minor in Horticulture (204)				
Core Courses <i>Take this course:</i> APS 122 4 <hr style="width: 100%;"/> 4 <i>Take 1 course:</i> HORT 230 3 HORT 335 3 <hr style="width: 100%;"/> 3	Elective Courses <i>Take 19 credits:</i> APS 103 3 APS 299R 0.5 APS 310 2 APS 312 2 APS 339R 1 APS 350 3 APS 412 2 APS 413 1 APS 465 3 HORT 230 3 Cont. in next column	<i>Cont. from previous column</i> HORT 252 4 HORT 287R 1 HORT 311 2 HORT 319 3 HORT 320 3 HORT 322 3 HORT 324 2 HORT 325 2 HORT 329 3 HORT 334 3 HORT 335 3 Cont. in next column	<i>Cont. from previous column</i> HORT 336 2 HORT 338R 3 HORT 410 3 HORT 430 3 HORT 435 3 HORT 455 2 HORT 460 2 HORT 461 2 HORT 470 2 <hr style="width: 100%;"/> 19	Program Notes: •No Double Counting of Minor Courses
Credit Requirements:		Tracks Available:		
	Total 26		Fall-Winter Yes Winter-Spring Yes Spring-Fall Yes	

Geographical Information Systems (GIS) Technology Minor (222)				
Core Courses <i>Take these courses:</i> CIT 111 3 CS 101 2 GEOL 140 1 <hr style="width: 100%;"/> 6 <i>Take 1 course:</i> MATH 221A 3 MATH 221B 3 MATH 221C 3 <hr style="width: 100%;"/> 3	<i>Take 1 course:</i> GEOG 230 3 GEOL 340 3 <hr style="width: 100%;"/> 3 GIS Courses <i>Take 1 course:</i> AGTEC 286 3 GEOG 340 3 GEOL 340 3 <hr style="width: 100%;"/> 3	GIS Project <i>Take 1 course*:</i> AGTEC 486 3 GEOL 440R 3 <hr style="width: 100%;"/> 3	Supplemental Courses <i>Take 2 courses:</i> AGRON 425 3 CIT 160 3 CIT 260 3 COMM 125 3 GEOG 240 3 ME 142 or CIT 110 3 <hr style="width: 100%;"/> 6	Program Notes: •No Double Counting of Minor Course •No Grade Less Than C- for Minor Courses •*A directed studies or other project oriented course in a students chosen discipline may be substituted for this requirement with the Geology Chairs permission.
Credit Requirements:		Tracks Available:		
	Total 24		Fall-Winter Yes Winter-Spring Yes Spring-Fall Yes	

Minor in Plant Science and Technology (243)				
Core Courses <i>Take these courses:</i> APS 122 4 APS 220 3 APS 220L 1 AGTEC 220 1 <hr style="width: 100%;"/> 9	Supplemental Courses <i>Take 16 credits:</i> AGRON 321 4 AGRON 330 3 AGRON 425 3 AGRON 440 3 AGRON 445 2 AGRON 460 3 AGTEC 132 2 <i>Cont. in next column</i>	<i>Cont. from previous column</i> AGTEC 186 1 AGTEC 230 2 AGTEC 286 or GEOG 230 3 AGTEC 294 3 AGTEC 301 4 AGTEC 486 3 <i>Cont. in next column</i>	<i>Cont. from previous column</i> AGTEC 335 4 AGTEC 360 4 APS 103 3 APS 310 2 APS 312 2 APS 350 3 APS 465 3 <hr style="width: 100%;"/> 16	Program Note: •No Double Counting of <i>Minor Courses</i> •No Grade Less Than C- for <i>Minor Courses</i>
Credit Requirements:		Tracks Available:		
Total 25		Fall-Winter Yes Winter-Spring Yes Spring-Fall Yes		

Horticulture Concentration (D 150)				
Core Courses <i>Take these courses:</i> APS 122 4 APS 220 3 APS 220L 1 APS 412 2 HORT 297R 1 HORT 322 3 <hr style="width: 100%;"/> 14	Interdisciplinary Courses <i>Take these courses:</i> IDS 398R 1-3 IDS 499 2 3 <i>Take 1 course:</i> HORT 230 3 HORT 319 3 HORT 320 3 HORT 335 3 3	Supplemental Courses <i>Take 12 credits:</i> APS 103 3 APS 310 2 APS 312 2 APS 339R 1 APS 413 1 HORT 230 3 HORT 252 4 HORT 287R 1 HORT 311 2 HORT 319 3 HORT 320 3 HORT 324 2 HORT 325 2 <i>Cont. in next column</i>	<i>Cont. from previous column</i> HORT 329 3 HORT 334 3 HORT 335 3 HORT 336 2 HORT 338R 3 HORT 351 2 HORT 410 3 HORT 430 3 HORT 435 3 HORT 455 2 HORT 460 2 HORT 461 2 HORT 470 2 2 12	Program Notes: •No Double Counting of <i>Concentration Courses</i> •No Grade Less Than C- for <i>Concentration Courses</i> •See advising for recom- <i>mended courses specific to</i> <i>Design/Build/Maintain,</i> <i>Production, Floral Design.</i>
Credit Requirements:		Tracks Available:		
Total 32		Fall-Winter Yes Winter-Spring Yes Spring-Fall Yes		

Applied Plant Science Pre-approved Clusters

Event Planning		1500
<i>Take 12 credits:</i>		
AGBUS 232	Ag Sales and Merchandising	3
HORT 287R	Flower Center	1
HORT 325	Interiorscaping	2
HORT 335	Flower Arranging	3
HORT 338R	Wedding and Event Planning	<u>3</u>
	Total Credits	12

Horticulture		1501
<i>Take 12 credits:</i>		
APS 103	Home Gardening	3
APS 122	Introduction to Plant Science	4
APS 299R	Seminar	0.5
APS 310	Tree Fruit & Nut Crops	2
APS 312	Alternative Cropping Systems	2
APS 350	Plant Breeding and Genetics	3
APS 412	Integrated Pest Management	2
APS 413	Pesticide Application	1
HORT 230	Intro to Architecture/Landscape Design	3
HORT 252	Landscape Construction	4
HORT 287R	Flower Center	1
HORT 311	Introduction to Arboriculture	2
HORT 319	Landscape Management	3
HORT 320	Plant Propagation	3
HORT 322	Woody Plant Identification	3
HORT 324	Herbaceous Plant Identification	2
HORT 325	Interiorscaping	2
HORT 329	Irrigation	3
HORT 334	Greenhouse Operations	3
HORT 335	Flower Arranging	3
HORT 336	Cultural Design Influence	2
HORT 338R	Wedding and Event Planning	3
HORT 410	Turfgrass Management	3
HORT 430	Advanced Landscape Design	3
HORT 455	Nursery Management	2
HORT 460	Cut Flower Crops	2
HORT 461	Potted Plants	2
HORT 470	Edible Landscaping	<u>2</u>
	Total Credits	12

Natural Resources		1502
<i>Take 4 courses:</i>		
BIO 225	Range Management	3
BIO 302	Ecology	4
BIO 325	Range Ecology Systems Management	3
BIO 455	Rangeland Inventory & Analysis Lab	3
BIO 466	Rangeland Vegetation Manipulation & Improvement	<u>3</u>
	Total Credits	12

Soil Management		1503
<i>Take these courses:</i>		
APS 220	Introduction to Soils	3
AGRON 321	Soil Fertility and Plant Nutrition	4
AGRON 325	Water Management Systems	3
AGRON 425	Soil Management	<u>3</u>
	Total Credits	13

Crop Production		1504
<i>Take 12 credits:</i>		
APS 103	Home Gardening	3
APS 310	Tree Fruit & Nut Crops	2
APS 312	Alternative Cropping Systems	2
AGRON 330	Forage Crops	3
AGRON 435	Root, Tuber, and Vegetable Crops	3
AGRON 455	Grain and Oil Seed Crops	<u>3</u>
	Total Credits	12

Crop Protection		1505
<i>Take these courses:</i>		
AGRON 321	Soil Fertility and Plant Nutrition	4
AGRON 325	Water Management Systems	3
AGRON 445	Crop Advisor Certification	2
APS 412	Integrated Pest Management	2
APS 413	Pesticide Application	<u>1</u>
	Total Credits	12

GIS in Agriculture and Natural Resources		1506
<i>Take these courses:</i>		
AGTEC 286	Intro to Geographic Information Systems	3
AGTEC 474	Mechanical Systems Analysis	3
AGTEC 486	Precision Agriculture	3
<i>Take 1 course:</i>		
CIT 225	Database Design and Development	3
GEOG 240	Maps and Remote Sensing	3
GEOG 340	Advanced GIS and Spatial Analysis	<u>3</u>
	Total Credits	12

Agriculture Technology		1507
<i>Take 14 credits:</i>		
AGED 460	Experiential Laboratory Methods	2
AGTEC 220	Machinery Safety Training	1
AGTEC 320	Agricultural Machinery	3
AGTEC 335	Electronic Systems Diagnostics and Repairs	4
AGTEC 360	Agricultural Hydraulics	4
AGTEC 465	Machinery Management	3
AGTEC 474	Mechanical Systems Analysis	<u>3</u>
	Total Credits	14

Geographical Information System (GIS)		6801
<i>Take this course:</i>		
GEOL 140	Intro to Global Positioning Systems	1
<i>Take 1 course:</i>		
AGTEC 286	Intro to Geographic Information Systems	3
GEOG 230	Intro to Geographic Information Systems	3
GEOL 340	Introduction to GIS for Geoscientists	3
<i>Take 1 course:</i>		
MATH 221A	Business Statistics	3
MATH 221B	Biostatistics	3
MATH 221C	Social Science Statistics	3
<i>Take 1 course:</i>		
AGTEC 486	Precision Agriculture	3
GEOG 340	Advanced GIS and Spatial Analysis	3
GEOL 340	Introduction to GIS for Geoscientists	3
GEOL 440R	Applied GIS	3
<i>Take 1 course:</i>		
CIT 111	Introduction to Databases	3
CIT 160	Introduction to Programming	3
COMM 125	Visual Fundamentals	3
CS 101	Introduction to Programming	<u>2</u>
	Total Credits	12

Some courses may have a prerequisite that must be met in order to take that course.

Course Descriptions

Credits*

AGED 297 Agriculture Education Practicum (2:1:2:0)
 Course Requirements: Junior and Senior Standing Only
 The purpose of this course is to allow those students interested in teaching high school agriculture to gain an early field experience. Students will be required to spend at least 40 hours in the semester observing and participating in lecture and laboratory activities. (See Rotation Schedule on page 106)

AGED 380 Connecting Education and Employment (3:3:0:0)
 Course Requirements: Junior and Senior Standing Only
 This course prepares future Agricultural educators to teach school and career options to secondary students who desire a career in agriculture or related field of endeavor. (See Rotation Schedule on page 106)

AGED 450 Curriculum Dev/Assessment in Occupational Ed (2:2:0:0)
 Course Requirements: Seniors Only
 This course will help students develop an understanding of the basic techniques of identifying and selecting instructional materials and methods to effectively teach agriculture at the secondary level. This course mainly focuses on course construction in professional-technical curriculum development in agriculture and its related fields. (See Rotation Schedule on page 106)

AGED 452 Methods of Teaching Agriculture (3:3:0:0)
 Course Requirements: Seniors Only
 In this course, students will learn how competence in teaching methods, along with competence in the technical subject matter, is essential to be effective as a teacher of agriculture. (See Rotation Schedule on page 106)

AGED 460 Experiential Laboratory Methods (2:2:0:0)
 Course Requirements: Seniors Only
 This course will help students develop specific skill sets in agricultural curriculum laboratory exercises. The course will focus on the experiential method of teaching and developing skills that can be transferred to secondary students relative to agricultural course work. (See Rotation Schedule on page 106)

AGRON 321 Soil Fertility and Plant Nutrition (4:3:2:0)
 Prerequisites: APS 122 or APS 220
 In this course, students will learn about field identification and measurement of plant nutrient deficiencies, petiole analysis, and crop fertilization methods. (See Rotation Schedule on page 106)

AGRON 325 Water Management Systems (3:1:6:0)
 Total Course Fees: \$25.00
 In this course, students will apply principles and application of soil, water and plant relations, agricultural meteorology, and irrigation. (See Rotation Schedule on page 106)

AGRON 330 Forage Crops (3:3:0:0)
 Total Course Fees: \$25.00
 This course involves a composite study of an important field of agronomy, forage crops used in the livestock industry. Applied production principles and management requirements will be emphasized for each crop. Students will learn the history and biology of major crops. (See Rotation Schedule on page 106)

AGRON 425 Soil Management (3:2:2:0)
 This course examines the science and application of soil taxonomy, genesis, chemistry physics, and microbiology to better manage soils for improving environmental quality and agricultural suitability. (See Rotation Schedule on page 106)

AGRON 430 Soil Taxonomy and Genesis (3:2:2:0)
 Prerequisites: APS 220 and APS 220L and CHEM 101 or higher
 This course involves the study of soil genesis, classification, and mapping and how they examine the evolution of soils, their organization into natural units, and their distribution throughout the world. Physical, chemical, and morphological soil characteristics are studied both in the field and classroom, and then used to classify soils. (See Rotation Schedule on page 106)

AGRON 435 Root, Tuber, and Vegetable Crops (3:2:2:0)
 Total Course Fees: \$25.00
 This course involves the study of potato production including seed, water, fertilizer, and harvest management. The course includes lectures, field study, and outside the classroom experiences to enable the student to become more knowledgeable of potato management. (See Rotation Schedule on page 106)

AGRON 440 Crop Physiology (3:2:2:0)
 Prerequisites: (BIO 100 and CHEM 101 or higher) or (APS 122 and CHEM 101 or higher)
 In this course students will learn the science and application of crop science and physiology. This course will apply cellular and biochemical analysis of plant physiology to the more applied aspects of plant growth specifically agricultural crops. (See Rotation Schedule on page 106)

AGRON 445 Crop Advisor Certification (2:2:0:0)
 Course Requirements: Instructor Approval Required
 The international Certified Crop Advisor program is designed to provide qualified credentials to professionals in Agriculture who consult and make nutrient and pesticide recommendations to Grower/Producers. Completion of the course prepares students to take two required examinations for CCA certification. (See Rotation Schedule on page 106)

AGRON 455 Grain and Oil Seed Crops (3:3:0:0)
 Total Course Fees: \$25.00
 This course covers crop history and the biology of major cereal and oil seed crops produced during both warm and cool seasons. The course also introduces principles of cereal and oil crop chemistry, development and processing. (See Rotation Schedule on page 106)

AGRON 460 Plant Pathology (3:2:2:0)
 This course will help plant growers to understand the potential for plant disease, to recognize symptoms of disease, understand the life cycle of the pathogen, and find a way to control, minimize, or eliminate it. (See Rotation Schedule on page 106)

AGRON 470 Agronomy Capstone: Agro-Ecology (3:3:0:0)
 Total Course Fees: \$25.00
 This is a capstone course for agronomy, crop, and soil science majors. The course is a study of sustainable agriculture, including modern agricultural impacts on natural ecosystems. The application of modern agricultural technology to improve agriculture and economical sustain ability will be studied. (See Rotation Schedule on page 106)

AGTEC 122 Small Engines (2:1:2:0)
 Total Course Fees: \$15.00
 This course covers the selection, adjustment, and care of small engines. Small engine theory and procedures for complete small engine overhaul will be studied. (See Rotation Schedule on page 106)

AGTEC 124 Compact Equipment (2:1:2:0)
 Total Course Fees: \$15.00
 In this course, students will test and repair procedures for engines, electrical, power trains, and hydraulics found on compact equipment. (See Rotation Schedule on page 106)

AGTEC 125 Agricultural Maintenance Welding (3:2:2:0)
 This course is an overview in the use of electric arc and oxy acetylene welding equipment with an emphasis upon maintenance welding as it pertains to farm and ranch applications. (See Rotation Schedule on page 106)

AGTEC 132 Climate Control (2:2:0:0)
 This course covers system theory, diagnosis, and repair of air conditioning and heating systems in agricultural equipment. (See Rotation Schedule on page 106)

AGTEC 186 GPS Applications in Agriculture (1:0:2:0)
 This course will examine the technology and application of global positioning systems (GPS) in agriculture. (See Rotation Schedule on page 106)

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AGTEC 220 Machinery Safety Training (1:0:3:0)
 This course is an overview of preventive maintenance, care, and operation of Agricultural equipment.
 (See Rotation Schedule on page 106)

AGTEC 230 Agriculture Electrification - AC (2:1:3:0)
 This course involves principles, systems, and applications of electrical energy in agriculture.
 (See Rotation Schedule on page 106)

AGTEC 286 Introduction to Geography Information Systems (3:2:2:0)
 This course is designed to teach the basics of geographical information systems in agriculture and natural resources and how global positioning systems and geographical information systems can be used to improve agricultural and natural resource management.
 (See Rotation Schedule on page 106)

AGTEC 290R Individual Study (2:0:0:0)
 This course incorporates independent study, special assignment and/or advanced inquiry in an area of special interest, approved after consultation with instructor in charge.
 (Fall, Winter, Spring)

AGTEC 294 Agriculture Fabrication (3:1:4:0)
 Prerequisite: ME 105
 In this course, students will learn how rapid mechanization of agriculture over the past generation has made shop work a larger and more essential part of agriculture operations. This course will help develop specific skills used in agriculture mechanics and improve the ability to perform at high productive levels.
 (See Rotation Schedule on page 106)

AGTEC 301 Engine Repair (4:2:4:0)
 This course will teach students about the practical application and use of the principles and practices of major diesel engine repair. Students will study the mechanics and operational procedures and repair of tractors and other forms of farm power units, with emphasis on adjustments, operations, and care of the power unit.
 (See Rotation Schedule on page 106)

AGTEC 320 Agricultural Machinery Management (3:1:6:0)
 Total Course Fees: \$20.00
 In this course, students will learn about selection, servicing, maintenance, operation, testing, repair, use, and general management of agricultural equipment.
 (See Rotation Schedule on page 106)

AGTEC 335 Electronic System Diagnostic Repair (4:3:3:0)
 This course involves basic electricity in farm power electrical circuits, with emphasis in starting systems, charging systems, lighting systems and accessory systems. This course will focus on advanced electronics used in farm power; fuel injection systems, monitors and controllers.
 (See Rotation Schedule on page 106)

AGTEC 360 Agricultural Hydraulics (4:3:3:0)
 In this course, students will study the fundamental and advanced principles governing and regulating the transmission and control of fluid power hydraulics. Trouble shooting and system repairs will also be studied.
 (See Rotation Schedule on page 106)

AGTEC 465 Machinery Management (3:3:0:0)
 This course involves a study of machinery efficiency, matching machines, and horsepower. Analyzing and estimating costs associated with keeping machines running will also be studied.
 (See Rotation Schedule on page 106)

AGTEC 474 Mechanical Systems Analysis (3:2:3:0)
 Prerequisites: AGTEC 220 and AGTEC 335
 This course involves the testing and diagnosis for various pieces of equipment related to agriculture systems pertaining to the production of food.
 (See Rotation Schedule on page 106)

AGTEC 486 Precision Agriculture (3:2:2:0)
 Prerequisite: AGTEC 286
 This course is designed to apply geographical information systems (GIS) to agriculture and natural resource disciplines. The course will focus on collecting, analyzing, interpolating, and decision making using GIS software and GPS equipment.
 (See Rotation Schedule on page 106)

APS 103 Home Gardening (3:2:2:0)
 Total Course Fees: \$20.00
 In this course, students will learn basic principles, culture, and production of vegetables, fruits, flowers, trees, shrubs, and turf, as it relates to the home garden and self-reliance.
 (Fall, Winter, Spring)

APS 122 Introduction to Plant Science (4:3:2:0)
 Total Course Fees: \$125.00
 This course introduces the basic principles of structure, form, and function of plants in both the higher and lower plant kingdoms.
 (Fall, Winter, Spring)

APS 220 Introduction to Soils (3:3:0:0)
 This is a basic course dealing with the formation of soils as well as the physical, chemical and biological properties of soils.
 (Fall, Winter, Spring)

APS 220L Introduction to Soils Lab (1:0:2:0)
 This course is a hands on experience determining soil texture, structure, color, measuring soil pH, nitrates, and fertilizers.
 (Fall, Winter, Spring)

APS 290R Special Problems (1-3:0:0:0)
 Repeatable Course: May earn maximum of 8 credits
 In this course, students may pursue a subject of interest through independent study under personal direction of a faculty specialist.
 (Fall, Winter, Spring)

APS 298R Internship (1-5:0:0:0)
 Repeatable Course: May earn maximum of 5 credits
 Internship Fees: \$78 (LDS) \$156 (non-LDS) per credit
 Exempt from tuition, but charged this independent course fee
 This course involves work experience in the plant science industry.
 (Fall, Winter, Spring)

APS 299R Seminar (0.5:1:0:0)
 Repeatable Course: May earn maximum of 2.5 credits
 This course includes guest lectures from industry leaders.
 (See Rotation Schedule on page 106)

APS 310 Tree Fruit and Nut Crops (2:1:3:0)
 This course provides a study of the importance of tree fruit and nut production, and how these products contribute to global agriculture and the human diet.
 (See Rotation Schedule on page 106)

APS 312 Alternative Cropping Systems (2:1:3:0)
 This course is a study and application of alternative cropping systems. Hydroponic, Crop Tunnels, Row Covers, Hoop Houses, Trellises, Soil Amendment, LED Lighting and alternative energy sources will be covered in the course material.
 (See Rotation Schedule on page 106)

APS 339R APS Portfolio (1:0:3:0)
 Repeatable Course: May earn maximum of 8 credits
 Total Course Fees: \$30.00
 This is a course to help students develop a personal portfolio of the skills acquired during their studies at BYU-Idaho in preparation for employment or additional graduate school study. Students are taught to document their learning with digital photography web design, letters of introduction, presentation of résumé, and personal vitae.
 (See Rotation Schedule on page 106)

APS 350 Plant Breeding and Genetics (3:2:2:0)
 Prerequisites: APS 122 and APS 220 and APS 220L and CHEM 101 or higher
 A study of plant biotechnology and the role it plays in our everyday lives from the foods we eat, to the jobs we work at, to the diseases we suffer from. This course will not only teach the science content that is necessary to work in a biotechnology lab, but will develop the critical thinking skills that are necessary to keep up with the rapidly advancing scientific knowledge.
 (See Rotation Schedule on page 106)

APS 387R Research Methods	(1:0:3:0)
Repeatable Course: May earn maximum of 4 credits	
Students engage in the process of scholarly research by applying writing, literature review, and statistical analysis to develop a research thesis. Students learn and prepare to apply the fundamentals of conducting research in the laboratory or field. The course is repeatable to provide students with peer mentoring opportunities and to develop high quality oral and poster presentations for local, regional, and national conferences. (Fall, Winter, Spring)	
APS 397R Agriculture Research Practicum	(1-2:0:0:0)
Repeatable Course: May repeat a maximum of 4 times	
The practicum provides students with opportunities to participate in undergraduate research through classroom discussion and supervised practical experience. The course will provide for the development and improvement of critical thinking and problem solving skills through the application of research methodologies. (Fall, Winter, Spring)	
APS 398R Internship	(1-5:0:0:0)
Repeatable Course: May earn maximum of 5 credits	
Internship Fees: \$78 (LDS) \$156 (non-LDS) per credit	
Exempt from tuition, but charged this independent course fee	
This course involves work experience in the plant science industry. (Fall, Winter, Spring)	
APS 412 Integrated Pest Management	(2:1:2:0)
Total Course Fees: \$20.00	
This course incorporates the identification and control of plant pests, including insects, weeds and diseases by integrating proper use of chemical and biological methods. Students will learn to describe the legal and ecological issues that influence decisions about pest management. (See Rotation Schedule on page 106)	
APS 413 Pesticide Application	(1:0:3:0)
This course will prepare students to properly and safely apply chemicals and other integrated pest management techniques in preparation for taking exams for pesticide applicator licensing. (See Rotation Schedule on page 106)	
APS 465 Integrated Weed Management	(3:2:2:0)
Prerequisites: APS 122 and APS 220 and APS 220L	
This course is a study of weeds and their impacts on agricultural production. The course will include instruction on weed physiology, identification, control practices, and ecological impacts. (See Rotation Schedule on page 106)	
APS 498R Internship	(1-5:0:0:0)
Repeatable Course: May earn maximum of 5 credits	
Internship Fees: \$78 (LDS) \$156 (non-LDS) per credit	
Exempt from tuition, but charged this independent course fee (Fall, Winter, Spring)	
HORT 230 Introduction to Architecture and Landscape Design	(3:2:2:0)
Total Course Fees: \$12.50	
This course enhances the student's understanding of the outdoor environment and how they can contribute to the quality of that environment through design and planning. Students will also study the history of landscape architecture and its effect on man. (Fall, Winter, Spring)	
HORT 252 Landscape Construction	(4:3:4:0)
Total Course Fees: \$40.00	
Prerequisite: HORT 230	
This is a practical course of layout and construction techniques for landscape projects. This course includes masonry, wood structures, irrigation, and plant installations. (See Rotation Schedule on page 107)	

HORT 287R Flower Center	(1:0:2:0)
Repeatable Course: May earn maximum of 8 credits	
Total Course Fees: \$20.00	
Prerequisite: HORT 335	
Course Requirement: Horticulture Majors Only	
This course provides training and experience in presentation of flowers in: display windows and coolers, large banquet halls, auditoriums, custom design in residential and commercial settings. Floral skills, shop management techniques, and floral nomenclature are all emphasized. The class is provided as an opportunity to reinforce principles learned in the various floral classes, and to prepare students for internship and retail employment. (Fall, Winter, Spring)	
HORT 297R Practicum in Horticulture	(1:0:3:0)
Repeatable Course: May earn maximum of 3 credits	
Course Requirement: Horticulture Majors Only	
This course involves supervised practical experience for the development and improvement of horticultural skills in preparing plant materials and products for market. (Fall, Winter, Spring)	
HORT 311 Introduction to Arboriculture	(2:1:2:0)
Total Course Fees: \$15.00	
This course involves the establishment, culture, and maintenance of trees and shrubs in the landscape. (See Rotation Schedule on page 107)	
HORT 319 Landscape Management	(3:2:3:0)
Total Course Fees: \$25.00	
Prerequisite: APS 122	
In this course, students will learn about the maintenance of trees, shrubs, and turf in landscape, park, golf, and athletic areas. (See Rotation Schedule on page 107)	
HORT 320 Plant Propagation	(3:2:3:0)
Total Course Fees: \$15.00	
Prerequisites: APS 122	
In this course, students will learn the principles and practices used in commercial propagation of plants with emphasis on landscape nursery stock. This course incorporates tissue culture, seed germination, grafting, layering, budding, cuttings, and other specialized techniques. (See Rotation Schedule on page 107)	
HORT 322 Woody Plant Identification	(3:1:6:0)
Total Course Fees: \$430.00	
In this course, students will learn about the identification, landscape values, and special cultural requirements of evergreen trees, shrubs, and ground covers. This course includes a lecture and lab experience. (See Rotation Schedule on page 107)	
HORT 324 Herbaceous Plant Identification	(2:1:2:0)
Total Course Fees: \$15.00	
In this course, students will learn about the identification, landscape values, and special cultural requirements of annual and perennial flowers. (See Rotation Schedule on page 107)	
HORT 325 Interiorscaping	(2:1:2:0)
Total Course Fees: \$25.00	
This course prepares students to demonstrate the use of plants in interior landscapes. Skills include proper care and maintenance of plants, plant identification, and a thorough introduction into the industry of production, acquisition, and marketing of interior plant products. This is an opportunity to discover how plants make people more productive in the home and workplace. (See Rotation Schedule on page 107)	
HORT 329 Irrigation	(3:1:6:0)
Total Course Fees: \$15.00	
In this course, students will learn about the irrigation of turf and landscape plants. This course covers the design of irrigation and landscape lighting systems, with selection and assembly of components. (See Rotation Schedule on page 107)	

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<p>HORT 334 Greenhouse Operations (3:2:3:0) Total Course Fees: \$15.00 Prerequisite: HORT 320 This course teaches students about greenhouse construction, environmental control, pest control, and plant culture including production of greenhouse floral crops. (See Rotation Schedule on page 107)</p>	<p>HORT 430 Advanced Landscape Design (3:2:2:0) Total Course Fees: \$25.00 Prerequisites: HORT 230 and HORT 322 In this course, students learn advanced applications in the artistic and functional design of landscapes. (See Rotation Schedule on page 107)</p>
<p>HORT 335 Flower Arranging (3:2:2:0) Total Course Fees: \$110.00 This course offers instruction and care in the handling of flowers, historical and current application, identification, and use. (Fall, Winter, Spring)</p>	<p>HORT 435 Advanced Floral Design (3:2:2:0) Total Course Fees: \$800.00 Prerequisite: HORT 335 In this course, students learn about professional floral design with emphasis on retail flower shop operation, products, and materials. Particular attention is given to developing speed, proficiency, and quality. (See Rotation Schedule on page 107)</p>
<p>HORT 336 Cultural Design Influence (2:1:2:0) Total Course Fees: \$25.00 This course helps students discover and describe how culture influences design, and how design influences culture, resulting in the applications of plant usage to create healthy and beautiful surroundings and living spaces in society. Consideration is given to a sense of humor and beauty, and how family life is blessed by recognizing and applying cultural influences. (See Rotation Schedule on page 107)</p>	<p>HORT 436 Competition Design and Comment (1:0:3:0) Total Course Fees: \$50.00 Prerequisite: HORT 335 Course Requirement: Horticulture Majors Only In this course, students develop freestyle and structured designs from various materials for competitive designing and judging. (See Rotation Schedule on page 107)</p>
<p>HORT 338R Wedding and Event Planning (3:3:0:0) Repeatable Course: May repeat a maximum of 3 times Total Course Fees: \$75.00 Prerequisite: HORT 335 This course involves students in preparing floral displays for wedding and special events. Students study the cost and organization of events, basic and advanced bridal design, and provide large scale designs for campus events. (See Rotation Schedule on page 107)</p>	<p>HORT 437 Interpretive Design (1:0:3:0) Total Course Fees: \$50.00 Prerequisite: HORT 335 Course Requirement: Horticulture Majors Only This course is the final evaluation of the student's ability to assess proper design interpretations, artistic dimensions of the student's preparation and training, fluency with the language of flowers, and product knowledge. (See Rotation Schedule on page 107)</p>
<p>HORT 340 Landscape Computer Operations (2:0:0:0) Prerequisite: HORT 230 This course involves the application of specific computer software programs that are commonly used in the horticulture industry; including sprinkler design, landscape design, bidding and estimating, GPS, and the internet. (See Rotation Schedule on page 107)</p>	<p>HORT 453 Land Construction Material (3:2:2:0) Total Course Fees: \$15.00 Prerequisites: HORT 230 and HORT 322 This course studies the construction and design used for typical landscape construction materials such as pavers, concrete, wood, and rock. (See Rotation Schedule on page 107)</p>
<p>HORT 350R PLANET Career Days (1:1:0:0) Repeatable Course: May earn maximum of 3 credits Total Course Fees: \$1000.00 Course Requirement: Instructor Approval Required This course is for students selected to participate in the yearly PLANET Student Career Days field excursion with the Horticulture Program. The course is designed to assist students with their preparations to communicate with potential employers during the career day events. Students also are given special attention in perfecting practical skills that they have been taught throughout their tenure at the University. (Fall, Winter)</p>	<p>HORT 455 Nursery Management (2:1:2:0) Total Course Fees: \$200.00 Prerequisite: HORT 320 This course will focus on the development, organization, infrastructure, and operation of a production nursery. The course will cover production principles and practices and strategies for wholesale and retail marketing of nursery crops. The laboratory will concentrate on the development of skills associated with the production and marketing of nursery crops. (See Rotation Schedule on page 107)</p>
<p>HORT 351 Landscape Contracting (2:1:2:0) This course teaches students the estimating, bidding, and contracting procedures for landscape construction, and maintenance projects. Students will experience a hands-on approach to bidding and estimating jobs for the Green Industry. (See Rotation Schedule on page 107)</p>	<p>HORT 460 Cut Flower Crops (2:1:2:0) Prerequisite: HORT 320 This course helps students develop the knowledge of cutting flowers and crops through commercial production, harvesting, marketing, and scheduling. (See Rotation Schedule on page 107)</p>
<p>HORT 375 Floriculture Applications (1:1:0:0) Total Course Fees: \$1000.00 Prerequisite: HORT 320 In this course, students learn the Case Studies of plant growth in relation to the floriculture industry with emphasis on the physiological interactions of plant growth resulting from fertilization, plant growth regulators, growing structures, irrigation, and container media. (See Rotation Schedule on page 107)</p>	<p>HORT 461 Potted Plants (2:1:2:0) Total Course Fees: \$15.00 Prerequisite: HORT 320 This course teaches students about commercial production, harvesting, marketing, and scheduling of bedding plants and potted commercial crops. (See Rotation Schedule on page 107)</p>
<p>HORT 410 Turfgrass Management (3:2:3:0) Total Course Fees: \$40.00 This course teaches students about the establishment, culture, and maintenance of turf grass in the landscape. (See Rotation Schedule on page 107)</p>	<p>HORT 470 Edible Landscaping (2:1:2:0) Course Requirement: Horticulture Majors Only In this course, students will develop the principles and practical applications for fruit and vegetable establishment, culture, production, storage, and economics. (See Rotation Schedule on page 107)</p>

Applied Plant Science Course Rotation Schedule

Some courses will not appear in this rotation schedule
because they are offered **every** semester.

Course ID	Fall 15	Win 16	Spr 16	Fall 16	Win 17	Spr 17	Fall 17
AGED 297		X			X		
AGED 380	May substitute HFED 380 if this course is not scheduled.						
AGED 450	May substitute HFED 450 if this course is not scheduled.						
AGED 452	May substitute HFED 452 if this course is not scheduled.						
AGED 460		X			X		
AGRON 321		X	X		X	X	
AGRON 325	X		X	X		X	X
AGRON 330	X		X	X		X	X
AGRON 425	X		X	X		X	X
AGRON 430			X	X		X	
AGRON 435		X	X		X	X	
AGRON 440	X	X		X	X		X
AGRON 445		X	X		X	X	
AGRON 455		X	X		X	X	
AGRON 460			X		X		
AGRON 470	X	X		X	X		X
AGTEC 122	X		X		X		X
AGTEC 124	X		X		X		X
AGTEC 125	May substitute WELD 101 if this course is not scheduled.						
AGTEC 132	May substitute AUTO 221 if this course is not scheduled.						
AGTEC 186	X		X	X		X	X
AGTEC 220	X		X	X		X	X
AGTEC 230		X				X	
AGTEC 286		X			X		
AGTEC 294			X		X		
AGTEC 301		X					
AGTEC 320	X	X		X	X		X
AGTEC 335	May substitute Auto 131, Auto 231 if this course is not scheduled.						
AGTEC 360		X		X			
AGTEC 465	X						
ACTEC 474					X		
AGTEC 486	X	X		X	X		X
APS 299R	X	X		X	X		X
APS 310		X			X		
APS 312	X		X			X	
APS 339R		X			X		
APS 350		X			X		
APS 412	X		X	X		X	X
APS 413	X		X	X		X	X
APS 465	X			X			X

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Course ID	Fall 15	Win 16	Spr 16	Fall 16	Win 17	Spr 17	Fall 17
HORT 252	X		X	X		X	X
HORT 311		X			X		
HORT 319	X		X	X		X	X
HORT 320		X	X		X	X	
HORT 322	X		X	X		X	X
HORT 324	X		X	X		X	X
HORT 325	X		X	X		X	X
HORT 329	X		X				X
HORT 334		X			X		
HORT 336		X			X		
HORT 338R		X			X		
HORT 340		X					
HORT 351		X			X		
HORT 375		X			X		
HORT 410				X		X	
HORT 430		X			X		
HORT 435		X			X		
HORT 436		X			X		
HORT 437		X			X		
HORT 453		X			X		
HORT 455		X			X		
HORT 460		X			X		
HORT 461		X			X		
HORT 470		X			X		

Although unforeseen circumstances may result in occasional changes to this schedule, we will make every attempt to adhere to it.