

Department of

Applied Plant Science



Nels Hansen, Department Chair

Tricia Cox, Daniel Dewey, Nels Hansen, Chris Humphreys, Justin Maughan, Reese Nelson, Ben Romney, Ross Spackman, Jerry Toll, Skyler Westergard, Jared Williams, Blake Willis

Forrest Barnes, Greenhouse/Garden Manager

Alvin Lusk, Ag Resource Manager

Mitzi Pruitt, Office Assistant, Benson 144, (208) 496-4581, Science and Technology Center (STC) 320A
<http://www.byui.edu/applied-plant-science/>

Department Description

The purpose of the Department of Applied Plant Science is to prepare graduates with a foundation of artistry, technology, and science for careers in horticulture, agronomy, crop and soil science, and agricultural technology. Food production, conservation of the environment, and design and management of rural and urban landscapes is one of the most important human endeavors in society. From small urban gardens to large production farms, understanding how to manage constructed and natural resources for crop production and aesthetics has never been in more demand than it is today. The emphasis on both production and aesthetics in the department's 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.

Aside from classroom and laboratory instruction, students gain applied experience in the Thomas E. Ricks Gardens and Greenhouses, Hill View Farm, Plant Shop, Ag Mechanics Shop, and Flower Center. Students provide produce and ornamentation for the BYU-Idaho campus, events, community, and local farmers markets.

Horticulture (695)

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 (642)

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.

Agricultural Science and Technology (644)

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.

Agricultural Engineering Technology (647)

The Agriculture Engineering Technology program prepares students for a career in the technical and mechanical world of agriculture. Students will attain skills and knowledge necessary to be employed in the following activities:

- Design, development, and testing of advanced machinery systems for agricultural, food, and bioenergy production systems
- Evaluation, development and modeling of systems for sustainable protection and improvement of soil and water resources
- Design and development of environmentally and economically sustainable animal production systems
- Development and evaluation of management systems to insure food quality, safety and biosecurity
- Manage complex agricultural and biological systems
- Technical sales and implementation of technology solutions
- Design and implementation of structures to store and process crops.

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AAS in Plant Science and Technology (365)

Core Courses	Internship	<i>Cont. from previous column</i>	<i>Cont. from previous column</i>	<i>Program Notes:</i>	
<i>Take these courses:</i>	<i>Take this course for 1 credit:</i>	AGRON 455	APS 103	<ul style="list-style-type: none"> •No Double Counting of Major Courses •No Grade Less Than C- in Major Courses 	
APS 122	APS 398R	AGRON 460	APS 290R		
APS 220	1-5	AGRON 470	APS 299R		
APS 220L	1	AGTEC 122	APS 310		
AGTEC 220	1	AGTEC 124	APS 312		
9		AGTEC 132	APS 339R		
<i>Take 1 course:</i>	Supplemental Courses	AGTEC 186	APS 350		
AGTEC 286	<i>Take 29 credits:</i>	AGTEC 230	APS 387R		
GEOG 230	AGBUS 210	AGTEC 290R	APS 397R		
3	AGBUS 347	AGTEC 294	APS 412		
3	AGRON 321	AGTEC 301	APS 413		
3	AGRON 325	AGTEC 320	APS 465		
<i>Repeat this seminar twice:</i>	AGRON 330	AGTEC 335	WELD 170		
APS 299R	AGRON 425	AGTEC 360	3		
0.5	AGRON 435	AGTEC 360	29		
1	AGRON 440	AGTEC 474			
	AGRON 445	AGTEC 486			
	<i>Cont. in next column</i>	<i>Cont. in next column</i>			
Credit Requirements:		Tracks Available:			
Foundations	17	Fall-Winter	Yes		
Major	43	Winter-Spring	Yes		
Total	60	Spring-Fall	Yes		

AAS in Horticulture (372)

Core Courses	Seminar	Elective Courses	<i>Cont. from previous column</i>	<i>Program Notes:</i>	
<i>Take these courses:</i>	<i>Take 2 times:</i>	<i>Take 15 credits:</i>	HORT 334	<ul style="list-style-type: none"> •No Double Counting of Major Courses 	
APS 122	APS 299R	AGTEC 220	HORT 338R		
APS 220	0.5	APS 103	HORT 340		
APS 220L	1	APS 232	HORT 351		
APS 412		APS 310	HORT 410		
HORT 230	Internship	APS 312	HORT 430		
HORT 297R	<i>Take this course for 1 credit:</i>	APS 339R	HORT 455		
HORT 319	APS 398R	APS 350	HORT 460		
HORT 320	1-5	APS 413	HORT 461		
HORT 322	1	HORT 252	HORT 470		
HORT 335	3	HORT 311	2		
26		HORT 325	15		
		HORT 329			
		<i>Cont. in next column</i>			
Credit Requirements:		Tracks Available:			
Foundations	17	Fall-Winter	Yes		
Major	43	Winter-Spring	Yes		
Total	60	Spring-Fall	Yes		

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AAS in Floral Design (373)				
Core Courses <i>Take these courses:</i> APS 122 4 APS 339R 1 HORT 287R 1 HORT 297R 1 HORT 322 3 HORT 325 2 HORT 335 3 HORT 336 2 HORT 338R 3 HORT 435 3 <hr style="width: 50px; margin-left: 0;"/> 23	Seminar <i>Repeat 2 times:</i> APS 299R 0.5 <hr style="width: 50px; margin-left: 0;"/> 1 Internship <i>Take this course for 1 credit:</i> APS 398R 1.5 <hr style="width: 50px; margin-left: 0;"/> 1	Elective Courses <i>Take 18 credits:</i> APS 103 3 APS 220 3 APS 220L 1 APS 232 3 APS 290R 1-3 APS 310 2 APS 312 2 APS 339R 1 APS 412 2 APS 413 1 ART 101 3 AUTO 100 1 AUTO 125 1 B 275 3 B 283 3 <i>Cont. in next column</i>	<i>Cont. from previous column</i> FCS 240 2 FCS 140 3 HORT 230 3 HORT 287R 1 HORT 320 3 HORT 324 2 HORT 334 3 HORT 338R 3 HORT 460 2 SPAN 101 4 <hr style="width: 50px; margin-left: 0;"/> 18	Program Notes: •No Double Counting of Major Courses •No Grade Less Than C- in Major Courses
Credit Requirements:		Tracks Available:		
	Foundations 17 Major 43 Total 60		Fall-Winter Yes Winter-Spring Yes 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 3 <hr style="width: 50px; margin-left: 0;"/> 12 Seminar <i>Take 2 times:</i> APS 299R 0.5 <hr style="width: 50px; margin-left: 0;"/> 1	<i>Take these courses:</i> AGRON 321 4 AGRON 325 3 AGRON 470 3 APS 387R 1 APS 397R 1-2 <hr style="width: 50px; margin-left: 0;"/> 12 <i>Take 1 course:</i> AGTEC 286 3 GEOG 230 3 <hr style="width: 50px; margin-left: 0;"/> 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>	<i>Cont. from previous column</i> APS 103 3 APS 310 2 APS 312 2 APS 350 3 APS 412 2 APS 413 1 APS 465 3 BIO 331 3 <hr style="width: 50px; margin-left: 0;"/> 27	Program Notes: •No Double Counting of Major Courses •No Grade Less Than C- in Major Courses
Credit Requirements:		Tracks Available:		
	Foundations 40 Major 55 Elective 25 Total 120		Fall-Winter Yes Winter-Spring Yes Spring-Fall Yes	

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BS in Agricultural Science and Technology (644)			
Core Courses			Modules
<i>Take these courses:</i>	<i>Take 1 course:</i>		<i>Complete 1 module:</i>
AGBUS 201 3	AGTEC 286 3		
AGBUS 210 3	GEOG 230 <u>3</u>		
AGRON 325 3		Agronomy Module	Automotive Technology Module
AGTEC 301 3	<i>Take 1 course:</i>	<i>Take 12 credits:</i>	<i>Take 1 course:</i>
AGTEC 320 3	ECEN 150 2	AGRON 321 4	AUTO 100 1
AGTEC 465 3	ME 305 <u>2</u>	AGRON 330 3	AUTO 125 <u>1</u>
AGTEC 486 3		AGRON 435 3	
AGTEC 490 3	<i>Complete 1 Option:</i>	AGRON 455 3	
APS 122 4	CHEM 101 and 101L 4	APS 465 <u>3</u>	<i>Take these courses:</i>
APS 220 3	CHEM 105 <u>4</u>		AUTO 131 2
APS 220L 1		Fabrication Module	AUTO 131L 1
MATH 109 5	<i>Take this course:</i>	<i>Take these courses:</i>	AUTO 132 2
PH 105 4	APS 398R <u>1.5</u>	ME 172 3	AUTO 132L <u>1</u>
WELD 170 <u>3</u>		ME 231 2	
44		ME 231L <u>1</u>	<i>Take 5 credits:</i>
			AUTO 155 2
			AUTO 155L 2
			AUTO 221 3
			AUTO 231 3
			AUTO 232 3
			ME 101 1
			WELD 100 <u>1</u>
			5
			Agricultural Business Module
			<i>Take these courses:</i>
			AGBUS 347 3
			ECON 151 <u>3</u>
			6
			<i>Take 2 courses:</i>
			AGBUS 410 4
			AGBUS 420 3
			AGBUS 430 3
			AGBUS 435 3
			AGBUS 440 3
			ECON 255 <u>3</u>
			6
			Agricultural Technology Module
			AGTEC 220 1
			AGTEC 335 4
			AGTEC 360 4
			AGTEC 474 <u>3</u>
			12
Program Notes:			
• No Double Counting of Major Courses			
• No Grade Less Than C- in Major Courses			
		<i>Take 6 credits:</i>	
		ME 331 3	
		ME 332 3	
		WELD 224 3	
		WELD 243 <u>3</u>	
		6	
Credit Requirements:		Tracks Available:	
Foundations	40	Fall-Winter	Yes
Major	66	Winter-Spring	Yes
Elective	<u>14</u>	Spring-Fall	Yes
Total	120		

BS in Agricultural Engineering Technology (647)				
Entry Courses		Elective Courses	Internship	Program Notes:
<i>Take these courses:</i>	<i>Complete 1 option:</i>	<i>Take 3 credits</i>	<i>Take 1 course:</i>	
AGTEC 124 2	<i>Option A</i>	CHEM 101 3	APS 398R 1	• No Double Counting of Major Courses
AGTEC 186 1	FDMAT 112 4	CHEM 105 4	ME 398R 1	
AGTEC 220 1	<i>Option B</i>	ME 101 1	IDS 398R <u>1</u>	• No Grade Less Than C- in Major Courses
AGTEC 286 3	MATH 109 and	ME 162 3		
AGTEC 301 3	FDMAT 112 4	ME 231L 1		
AGTEC 320 3	<i>Option C</i>	ME 250 3	Capstone	
AGTEC 360 4	FDMAT 110 and	ME250L 1	<i>Take 1 course:</i>	
AGTEC 465 3	MATH 110 and	ME 272 3	AGTEC 490 2-3	
APS 220 3	MATH 111 and	ME 280 3	IDS 499 <u>2-3</u>	
APS 220L 1	FDMAT 112 <u>4</u>	ME 299 1	2	
ME 142 3		ME 310 3		
ME 172 3		ME 331 3		
ME 201 3		ME 332 3		
ME 202 2		ME 340 <u>3</u>		
ME 204 3		3		
ME 231 2				
ME 305 3				
PH 121 3				
WELD 170 <u>3</u>				
49				
Credit Requirements:		Tracks Available:		
Foundations	40	Fall-Winter	Yes	
Major	59	Winter-Spring	Yes	
Elective	<u>21</u>	Spring-Fall	Yes	
Total	120			

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BS in Horticulture Design/Build/Maintain Emphasis (695-14)				
Core Courses <i>Take these courses:</i> APS 122 4 APS 220 3 APS 220L 1 APS 412 2 HORT 230 3 HORT 297R 1 HORT 320 3 HORT 322 2 HORT 324 3 HORT 335 3 <hr style="width: 100%;"/> 25	Seminar <i>Take 2 times:</i> APS 299R 0.5 <hr style="width: 100%;"/> 1 Internship <i>Take this course for 1 credit:</i> APS 398R 1.5 <hr style="width: 100%;"/> 1	Emphasis Courses <i>Take 28 credits:</i> AGRON 325 3 AGTEC 122 2 AGTEC 124 2 AGTEC 220 1 APS 103 3 APS 232 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 HORT 252 4 HORT 311 2 HORT 319 3 HORT 325 2 <hr style="width: 100%;"/> cont. in next column	<i>cont. from previous column</i> HORT 329 3 HORT 334 3 HORT 336 2 HORT 338R 3 HORT 340 2 HORT 350R 1 HORT 351 2 HORT 375 1 HORT 410 3 HORT 430 3 HORT 435 3 HORT 436 1 HORT 437 1 HORT 453 3 HORT 455 2 HORT 460 2 HORT 461 2 HORT 470 2 <hr style="width: 100%;"/> 28	Recommended courses for this emphasis: HORT 252 4 HORT 319 3 HORT 329 3 HORT 340 3 HORT 351 2 HORT 410 3 HORT 430 3 HORT 453 3 <hr style="width: 100%;"/> Program Notes: •No Double Counting of Major Courses
Credit Requirements:				
Foundations 40 Major 55 Elective 25 <hr style="width: 100%;"/> Total 120				

BS in Horticulture Production Emphasis (695-15)				
Core Courses <i>Take these courses:</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 3 <hr style="width: 100%;"/> 25	Seminar <i>Take 2 times:</i> APS 299R 0.5 <hr style="width: 100%;"/> 1 Internship <i>Take this course for 1 credit:</i> APS 398R 1.5 <hr style="width: 100%;"/> 1	Emphasis Courses <i>Take 28 credits:</i> AGTEC 122 2 AGTEC 124 2 AGTEC 220 1 APS 103 3 APS 232 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 HORT 252 4 HORT 311 2 HORT 319 3 <hr style="width: 100%;"/> cont. in next column	<i>cont. from previous column</i> HORT 325 2 HORT 329 3 HORT 334 3 HORT 336 2 HORT 338R 3 HORT 340 2 HORT 350R 1 HORT 351 2 HORT 375 1 HORT 410 3 HORT 430 3 HORT 435 3 HORT 436 1 HORT 437 1 HORT 453 3 HORT 455 2 HORT 460 2 HORT 461 2 HORT 470 2 <hr style="width: 100%;"/> 28	Recommended Courses for this emphasis: APS 232 3 APS 350 3 HORT 325 2 HORT 334 3 HORT 375 1 HORT 455 2 HORT 460 2 HORT 461 2 HORT 470 2 <hr style="width: 100%;"/> Program Notes: •No Double Counting of Major Courses
Credit Requirements:		Tracks Available:		
Foundations 40 Major 55 Elective 25 <hr style="width: 100%;"/> Total 120		Fall-Winter Yes Winter-Spring Yes Spring-Fall Yes		

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Minor in Plant Science and Technology (243)

Core Courses	Supplemental Courses	Cont. from previous column	Cont. from previous column	Program Note:	
<i>Take these courses:</i>	<i>Take 16 credits:</i>	<i>AGTEC 186</i>	<i>AGTEC 335</i>	<ul style="list-style-type: none"> •No Double Counting of Minor Courses •No Grade Less Than C- for Minor Courses 	
APS 122 4	AGRON 321 4	AGTEC 230 2	AGTEC 360 4		
APS 220 3	AGRON 330 3	AGTEC 286 or	APS 103 3		
APS 220L 1	AGRON 425 3	GEOG 230 3	APS 310 2		
AGTEC 220 1	AGRON 440 3	AGTEC 294 3	APS 312 2		
9	AGRON 445 2	AGTEC 301 3	APS 350 3		
	AGRON 460 3	AGTEC 486 3	APS 465 3		
	AGTEC 132 2	<i>Cont. in next column</i>	16		
	<i>Cont. in next column</i>				
Credit Requirements:		Tracks Available:			
Total	25	Fall-Winter	Yes		
		Winter-Spring	Yes		
		Spring-Fall	Yes		

Horticulture Concentration (D 150)

Core Courses	Interdisciplinary Courses	Supplemental Courses	Cont. from previous column	Program Notes:
<i>Take these courses:</i>	<i>Take 1 course:</i>	<i>Take 12 credits:</i>	<i>HORT 329</i>	<ul style="list-style-type: none"> •No Double Counting of Concentration Courses •No Grade Less Than C- for Concentration Courses •See advising for recommended courses specific to Design/Build/Maintain, Production, Floral Design. • *Course requires prerequisites that are not in core courses. See course description for more details.
APS 122 4	APS 398R 1-3	APS 103 3	HORT 334 3	
APS 220 3	IDS 398R 1-3	APS 310 2	HORT 335 3	
APS 220L 1	1	APS 312 2	HORT 336 2	
APS 412 2		APS 339R 1	HORT 338R 3	
HORT 297R 1	<i>Take this course:</i>	APS 413 1	HORT 340* 2	
HORT 320 3	IDS 499 2	HORT 230 3	HORT 351 2	
HORT 322 3	2	HORT 252* 4	HORT 410 3	
17		HORT 287R* 1	HORT 430* 3	
		HORT 311 2	HORT 435* 3	
		HORT 319 3	HORT 455 2	
		HORT 324 2	HORT 460 2	
		HORT 325 2	HORT 461 2	
		<i>Cont. in next column</i>	12	
Credit Requirements:		Tracks Available:		
Total	32	Fall-Winter	Yes	
		Winter-Spring	Yes	
		Spring-Fall	Yes	

Agriculture Technology Concentration (D 153)

Core Courses	Interdisciplinary Courses	Program Notes:
<i>Take these courses:</i>	<i>Take 1 course:</i>	•No Double Counting of Concentration Courses
AGTEC 124 2	APS 398R 1-3	•No Grade Less Than C- for Concentration Courses
AGTEC 186 1	IDS 398R 1-3	•See advising for recommended courses specific to Design/Build/Maintain, Production, Floral Design.
AGTEC 220 1	1	• *Course requires prerequisites that are not in core courses. See course description for more details.
AGTEC 286 3		
AGTEC 301 3	<i>Take 1 course:</i>	
AGTEC 320 3	AGTEC 490 2	
AGTEC 360 4	IDS 499 2	
AGTEC 465 3	2	
APS 220 3		
APS 220L 1		
WELD 170 3		
27		
Credit Requirements:		Tracks Available:
Total	30	Fall-Winter
		Winter-Spring
		Spring-Fall

Applied Plant Science Predefined Clusters

Event Planning 1500

Take 12 credits:

APS 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	3
	Total Credits	<u>12</u>

Horticulture 1501

Take 12 credits:

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	2
	Total Credits	<u>12</u>

Soil Management 1503

Take these courses:

APS 122	Introduction to Plant Science	4
APS 220	Introduction to Soils	3
CHEM 101	Introduction to Chemistry	3
(or higher)		
<i>Take 1 course:</i>		
AGRON 321	Soil Fertility and Plant Nutrition	4
AGRON 425	Soil Management	3
AGRON 430	Soil Taxonomy and Genesis	3
	Total Credits	<u>13</u>

Crop Protection 1505

Take these courses:

APS 122	Introduction to Plant Science	4
APS 220	Introduction to Soils	3
<i>Take 8 credits:</i>		
AGRON 445	Crop Advisor Certification	2
AGRON 460	Plant Pathology	3
APS 412	Integrated pest Management	2
APS 413	Pesticide Application	1
APS 465	Integrated Weed Management	3
	Total Credits	<u>15</u>

GIS in Agriculture and Natural Resources 1506

Take these courses:

AGTEC 286	Intro to Geographic Information Systems	3
OR		
GEOG 230	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	3
	Total Credits	<u>12</u>

Agriculture Technology 1507

Take 15 credits:

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	3
AGTEC 490	Technology Capstone	3
	Total Credits	<u>15</u>

Agronomy 1508

Take these courses:

APS 122	Introduction to Plant Science	4
APS 220	Introduction to Soils	3
<i>Take 2 courses:</i>		
AGRON 321	Soil Fertility & Plant Nutrition	4
AGRON 330	Forage Crops	3
AGRON 435	Root, Tuber, and Vegetable Crops	3
AGRON 455	Grain and Oil Seed Crops	3
APS 465	Integrated Weed Management	3
	Total Credits	<u>13</u>

Geographical Information System (GIS) 6801

Take this course:

GEOL 341	Introduction to Mobile GPS	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 and Remote Sensing	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	2
	Total Credits	<u>12</u>

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

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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.

AGRON 321 Soil Fertility and Plant Nutrition

(4:3:2:0)

Prerequisites: APS 122 or APS 220

Provide instruction and hands on experience in soil fertility and plant nutrition for agricultural and horticultural crops. Study the methods of nutrient uptake, nutrient cycles of the primary nutrients, secondary and micro-nutrients, nutrient management strategies, environmental impacts, and economics of fertilizing and liming. The laboratory section of the course will provide practical experience in measuring the availability of nutrient in soils and other soil fertility determining properties.

(Winter, Spring)

AGRON 325 Water Management Systems

(3:1:6:0)

Total Course Fees: \$25.00

Different types of irrigation systems and drainage techniques will be discussed. Emphasis will be placed on irrigation scheduling, accurate measurement, irrigation application methods, pertinent laws, and piping considerations.

(Fall, Spring)

AGRON 330 Forage Crops

(3:3:0:0)

Total Course Fees: \$25.00

Students will learn how forage crops are grown, harvested, and preserved for use primarily as livestock feed. They will also learn about poisonous plants, insects, weather-related conditions, and other factors that degrade the quality of the feed.

(Fall, Spring)

AGRON 425 Soil Management

(3:2:2:0)

Prerequisites: APS 220 and APS 220L and CHEM 101 or higher

Explore advances in managing soils for crop production from ancient to modern civilizations. Study soils as the central component of agroecosystems and discover how proper management of soil resources is critical to sustain agricultural production in developed and developing societies.

(Fall, Spring)

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.

(Fall, Spring)

AGRON 435 Root, Tuber, and Vegetable Crops

(3:3:0:0)

Total Course Fees: \$25.00

Prerequisites: APS 122 and APS 220

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.

(Fall, Winter)

AGRON 440 Crop Physiology

(3:2:2:0)

Prerequisites: APS 122 and CHEM 101 or higher

This course will examine the science and application of crop science and physiology. The crop science and physiology lectures will apply cellular and biochemical analysis of plant physiology to the more applied aspects of plant growth specifically agricultural crops. The crop physiology course will examine the ways physiological processes are integrated into crop management practices to increase biological and economic yield. Course topics will include photosynthesis, respiration, canopy development, carbohydrate and nitrogen storage, crop morphology, seed development, yield components, crop growth, crop reproduction, mineral nutrition, water relations, temperature stress, crop growth regulators, and diode types. The course will examine how these topics apply to wheat, barley, corn, alfalfa (and other forages), soybeans, potatoes, and other crops grown in the Western United States. The purpose of this course is to help the student apply scientific principles from crop science and physiology to solve agricultural and environmental problems.

(Fall, Winter)

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.

(Winter, Spring)

AGRON 455 Grain and Oil Seed Crops

(3:3:0:0)

Total Course Fees: \$25.00

Prerequisites: APS 122 and APS 220

This course is designed to identify and discuss crop history and biology of major cereal crops, legumes, and oil seed crops. This class will cover both warm and cool season crops as well as to introduce principles involved in their chemistry, development and processing.

(Winter, Spring)

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.

(Winter, Spring)

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.

(Fall, Winter)

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.

(Fall, Winter, Spring)

AGTEC 124 Compact Equipment

(2:1:2:0)

Total Course Fees: \$15.00

In this course, students will learn test and repair procedures for engines, electrical, power trains, and hydraulics found on compact equipment and consumer power products.

(Fall, Winter, Spring)

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.

(Winter)

AGTEC 132 Climate Control

(2:1:3:0)

This course covers system theory, diagnosis, and repair of air conditioning and heating systems in agricultural equipment.

(Winter)

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. The course will discuss topics in GPS error and correction methods for GPS error as they apply to agricultural situations. Students will be instructed how to use and apply recreational, iPad, DGPS, and RTK GPS systems for collecting agriculture related data. Students will use iPad GPS systems to collect detailed data such as field boundaries and areas of interest (weed patch). The DGPS and RTK GPS sections will include collecting large amounts of data over large areas such as yield maps. Auto-steer and guidance steering systems will be discussed and demonstrated.

(Fall, Spring)

AGTEC 220 Machinery Safety Training

(1:0:3:0)

This course is an overview of preventive maintenance, care, and operation of Agricultural equipment.

(Fall, Spring)

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AGTEC 230 Agriculture Electrification - AC

(2:1:3:0)

This course involves principles, systems, and applications of electrical energy in agriculture.
(Winter)

AGTEC 286 Introduction to Geography Information Systems

(3:2:2:0)

Basic principles of geographic information systems (GIS) are introduced and related to agricultural and natural resource management. Students learn how to solve spatial problems related to their discipline using GIS software.
(Winter)

AGTEC 290R Individual Study

(1-3:1:0:0)

Repeatable Course: May earn maximum of 3 credits

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: WELD 101

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.
(Winter, Spring)

AGTEC 301 Engine and Tractor Power

(3:2:3:0)

Construction, performance, and maintenance of internal combustion engines, mechanical power trains, electronics, and hydraulics with primary emphasis on power needs for both mobile and fixed operations. Introduction to traction, chassis mechanics, electronics systems, hydraulic power, and selection and use of power units.
(Fall, Winter, Spring)

AGTEC 320 Agricultural Machinery Management

(3:1:6:0)

Total Course Fees: \$20.00

This course introduces farm power and machinery management, optimizing methods of preventative maintenance, application, and selection to determine best management practices.
(Fall, Winter)

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.
(Fall, Winter)

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.
(Fall, Winter)

AGTEC 465 Machinery Management

(3:3:0:0)

Prerequisites: FDMAT 108 or FDMAT 110 or MATH 109

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.
(Fall, Winter, Spring)

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.
(Winter)

AGTEC 486 Precision Agriculture

(3:2:2:0)

Prerequisite: AGTEC 286 or GEOG 230

Learn how 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.
(Winter)

AGTEC 490 Technology Capstone

(3:1:6:0)

Formerly: AGED 460

Students will identify and define a current technological problem in agricultural or industrial systems, significant and relevant to the students' academic or career objectives. Students will work closely with a professional mentor, faculty advisor, and peers to refine and showcase the skills and competencies developed as applied to problem solving in technology. Students will demonstrate the ability to develop the project, communicate, and determine team responsibilities. They will develop alternate solutions using tools and knowledge from the technology curriculum, creativity, critical analysis, and planning techniques. Teams will select promising solutions to the identified technology problem for development and analysis. Students in this course will demonstrate proficiency in research, visual communication, writing, and presentation skills
(Winter)

APS 103 Home Gardening

(3:2:2:0)

Total Course Fees: \$20.00

An introductory course where students will learn about plant selection, environmental considerations to maximize plant production, and efficient home garden designs. Students will participate in the planning, planting, growing, and harvesting a garden. Students will also participate in processing the fruits of their labors.
(Fall, Winter, Spring)

APS 122 Introduction to Plant Science

(4:3:2:0)

Total Course Fees: \$100.00

This course covers the relationship between plants and people, plant morphology and physiology, plant production, the environment, soil and other related areas. Field and greenhouse scale production practices will be included. Additional time will be dedicated to building college success skills and career exploration within the scope of the Applied Plant Science disciplines.
(Fall, Winter, Spring)

APS 220 Introduction to Soils

(3:3:0:0)

Provides students with a basic understanding of soils and their importance in crop and food production. The course will examine the formation of soils and their physical, chemical and biological properties. The course will demonstrate diagnosing and correcting plant nutrient deficiencies for various crops and rotations. The effect of soil physical, chemical, and biological on agricultural systems will be discussed. Environmental effects such as soil erosion and chemical pollution and management/remediation of these problems.
(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 232 Ag Sales and Merchandising

(3:2:2:0)

Formerly: AGBUS 232

This course covers the retail sales and merchandising of agricultural products.
(Fall, Spring)

APS 290R Special Problems

(1-3:1:0:0)

Repeatable Course: May earn maximum of 8 credits or maximum of 8 enrollments

The purpose of the special problems course is to provide opportunities for students to enrich their learning experience with areas of study that are not generally covered in the regular curriculum. There are also at times opportunities outside the classroom for experiences that further enhance the education that is provided in the Applied Plant Science programs. It should be noted that this class is not intended as a substitute for other courses in the department.
(Fall, Winter, Spring)

APS 299R Seminar

(0.5:1:0:0)

Repeatable Course: May earn maximum of 2.5 credits

Listen to guest lectures from industry leaders.
(Fall, Winter)

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.
(Winter)

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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 materia.

(Winter)

APS 339R APS Portfolio

(1:0:3:0)

Repeatable Course: May earn maximum of 8 credits or maximum of 8 enrollments
Total Course Fees: \$30.00

This course is designed to help students develop a personal portfolio representing their skill sets and abilities acquired during their studies a BYU-Idaho in preparation for employment or additional graduate school study. Through emphasis on digital media utilization each student will create a sustainable presentation such as a website, blog or other digital presentation to showcase their work and school projects.

(Winter)

APS 350 Plant Breeding and Genetics

(3:2:2:0)

Prerequisites: APS 122 and APS 220 and APS 220L and CHEM 101 or higher

APS 350 is designed to provide students with a working understanding of population genetics as well as molecular genetics as well as techniques available to plant breeders to improve crop qualities.

(Winter)

APS 387R Research Methods

(1:0:3:0)

Requirement: 60 credits

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

(1:2:1:0:0)

Requirement: 60 credits

Repeatable Course: May earn maximum of 4 enrollments

The Agronomy Research Program (ARP) provides opportunities for BYU-Idaho students to design, setup, conduct, and report research. The focus is to help students prepare for careers in agriculture or graduate studies. The ARP provides research opportunities, faculty mentors, and financial support to students to conduct and report research. Because of the time commitments by faculty, resource commitments by the BYU-Idaho, and financial support, students are expected to meet and complete the following guidelines and requirements.

(Fall, Winter, Spring)

APS 398R Internship

(1-5:0:0:0)

Repeatable Course: May earn maximum of 5 credits

Internship Fees: \$81.50 (LDS) \$163 (non-LDS) per credit

Exempt from tuition, but charged this independent course fee APS 398R is a "cooperative work experience," or "internship" experience that is required of all APS majors. Included below are the various forms and information that students and employers are to use in completing the internship

(Fall, Winter, Spring)

APS 412 Integrated Pest Management

(2:1:2:0)

Total Course Fees: \$20.00

Learn integrated Pest Management strategies Students will qualify to receive a private applicators license.

(Fall, Spring)

APS 413 Pesticide Application

(1:0:3:0)

This course will examine crop protection through the use of pesticides cultural and biological control methods.

(Fall, Spring)

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.

(Fall)

HORT 230 Introduction to Architecture and Landscape Design

(3:2:2:0)

Total Course Fees: \$12.50

To introduce the student to steps in the landscape design process that will enable them to design residential landscapes that are functional, artistic and beautiful. To learn elements and principles of art that applies to landscape architecture. To provide an exploratory class for individuals who might choose to elect ornamental horticulture as a life time vocation.

(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.

(Fall, Spring)

HORT 287R Flower Center

(1:0:2:0)

Repeatable Course: May earn maximum of 8 credits or maximum of 8 enrollments

Total Course Fees: \$20.00

Prerequisite: HORT 335

Course Requirement: Horticulture Majors Only

This course provides hands on training and instruction in retail floristry to prepare students for internships or employment in the floral industry. Emphasis will be placed on skills and techniques learned in other flower arranging classes, floral nomenclature and floral merchandising. Flower Center students will also have the opportunity to help design flowers for campus events such as weekly devotionals, banquets, luncheons and graduation.

(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. This course involves an arranged lab that occurs on Friday with the MC Plant Shop and Friday/Saturday at local Farmers Markets.

(Fall, Winter, Spring)

HORT 311 Introduction to Arboriculture

(2:1:2:0)

Total Course Fees: \$15.00

Prerequisites: APS 122 and APS 220

HORT 311 is designed to provide students the basics of tree care management through lecture and hands-on lab experiences.

(Winter)

HORT 319 Landscape Management

(3:2:3:0)

Total Course Fees: \$25.00

Prerequisite: APS 122

Learn Landscape Management principles and practices and apply those techniques in the Thomas E. Ricks gardens.

(Fall, Spring)

HORT 320 Plant Propagation

(3:2:3:0)

Total Course Fees: \$15.00

Prerequisites: APS 122

HORT 320 is designed to provide students with a fundamental working knowledge of commercial plant propagation. Principles covered will include plant and seed physiology, environmental influences, sexual propagation (seed germination and production), asexual propagation (cuttings, grafting, budding, layering), and micropropagation.

(Winter, Spring)

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 and deciduous trees, shrubs, and vines. This course includes a lecture and lab experience.

(Fall, Spring)

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HORT 324 Herbaceous Plant Identification

(2:1:2:0)

Total Course Fees: \$15.00

Learn to identify and use annual and perennial flowers as a horticulturist, including design techniques such as Mountain Meadow Design philosophy.
(Fall, Spring)

HORT 325 Interiorscaping

(2:1:2:0)

Total Course Fees: \$25.00

This course is designed to provide an understanding of the use of plants in interior environments. Learn the names, behavior, and characteristics of plants that are typically used indoors. Most of them are indigenous to tropical climates, so we have to learn how to help them acclimatize and survive where the light, soil, water, and nutrients are adjusted to sustainably maintain their health and beauty in conditions less than ideal for their optimum growth. Principles of plant care will be adjusted to the needs of these now captive organisms.

(Fall, Spring)

HORT 329 Irrigation

(3:1:6:0)

Total Course Fees: \$15.00

This course is designed to provide students with a fundamental working knowledge of efficient landscape irrigation. Principles covered will include designing and installing various types of irrigation systems to efficiently irrigate different types of landscapes as well as efficient water management practices.

(Fall, Spring)

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.

(Winter)

HORT 335 Flower Arranging

(3:2:2:0)

Total Course Fees: \$110.00

This course instruction focuses on the principles and elements of design as applied to the floral industry, care and handling of cut flowers, harvest and distribution of cut flowers, floral identification and nomenclature and the history of floral design. Labs will provide hands on training in techniques and design skills used in the floral industry today.

(Fall, Winter, Spring)

HORT 336 Cultural Design Influence

(2:1:2:0)

Total Course Fees: \$25.00

This course is designed to assist the learning to recognize how various cultures affect and influence the designs, the art, the living environment, and, to contrast that with how designs influence culture. This is a study of the cycle of influence that design and culture nurture in human society, and how it influences the way we use plant materials to create a wholesome environment.

(Winter)

HORT 338R Wedding and Event Planning

(3:2:2:0)

Repeatable Course: May earn maximum of 3 enrollments

Total Course Fees: \$75.00

Prerequisite: HORT 335

Theories, methods, and materials involved in preparation for wedding and special events. The class prepares the learner for opportunities to plan and design floral products for weddings. Discussion and activities focus on organization and leadership involved in preparation for a campus event called the Fashion and Floral Gala, held in conjunction with the Home and Family Department.

The purpose of this course is to learn leadership and organization involved in Events Planning. A system of committees is developed to procure, organize, and design floral and plant materials for large events. The outcome of this course is to enable each student to understand the dynamics of organizing a large event, and developing specific portions of the event through small group cooperation. Each student is responsible for maintaining a time log showing committee involvement and the outcome of the group's effort for the open house. The class is repeatable so that students may increase the irresponsibility through multiple opportunities to stage an event by participating more than one time during their tenure on the campus.

(Winter)

HORT 340 Landscape Computer Operations

(2:1:2:0)

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.

(Winter)

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 ALCA Career Days field excursion with the Horticulture Department. 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)

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.

(Winter)

HORT 375 Floriculture Applications

(1:1:0:0)

Total Course Fees: \$1000.00

Prerequisite: HORT 320

This course focuses on the current developments and businesses in the floriculture industry, particularly research, production and marketing. Additionally students will study industry leaders and the interactions of these businesses on a global scale.

(Winter)

HORT 410 Turfgrass Management

(3:2:3:0)

Total Course Fees: \$25.00

Prerequisite: HORT 320

HORT 410 is designed to provide students with a fundamental working knowledge of turfgrass anatomy, growth habit, identification, and characteristics of both cool- and warm-season species. The course will provide students with a basic understanding of seed quality and labeling, pesticide safety, handling, and application, and fertilizer sources, safety, and application. HORT 410 will also provide an introduction to equipment used in turfgrass industry such as mowers, sprayers, cultivation, and sod harvesters.

(Fall, Spring)

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 the artistic and functional design of landscapes.

(Winter)

HORT 435 Advanced Floral Design

(3:2:2:0)

Total Course Fees: \$800.00

Prerequisite: HORT 335

This course focuses on more advanced skills and design associated with weddings, funerals and modern styles. Hands on labs will allow students to practice basic skills and move on to more difficult designs such as casket pieces, wedding bouquets and Asian styles. The business side of the retail flower shop will also be explored. Pricing, ordering, holiday inventory, marketing and networking will be emphasized. In lab speed and efficiency as well as skill and aesthetics will be evaluated.

(Winter)

HORT 436 Competition Design and Comment

(1:0:3:0)

Total Course Fees: \$50.00

Prerequisite: HORT 335

Course Requirement: Horticulture Majors Only

Explore the profession of Floristry and the opportunities for education and advancement in the industry. In this class you will practice design in competitive settings to improve speed, quality and confidence. Focus will be placed on comparative designing, self-evaluation, peer-evaluation, and professional evaluation techniques. The course also includes a perspective on the professional organizations that exist, membership benefits and requirements.

(Winter)

HORT 437 Interpretive Design**(1:0:3:0)**

Total Course Fees: \$50.00

Prerequisite: HORT 335

Course Requirement: Horticulture Majors Only

This course is an advanced level review of the artistic side of the floral design world. The course participant will develop the ability to use floral products and decorative materials to interpret ideas from other art forms in an expression of creativity. Fluency with the language of flowers, and product knowledge are emphasized.

(Winter)

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.

(Winter)

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.

(Winter)

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.

(Winter)

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.

(Winter)

HORT 470 Edible Landscaping**(2:1:2:0)**

Prerequisite: HORT 320

Course Requirement: Horticulture Majors Only

Students will learn the principles and practical applications for fruit and vegetable establishment in the home landscape as an artistic element including culture, production and usage.

(Winter)