

# Supplemental Information - Curriculum proposals

## FS Academic Affairs Committee Review

### March 6, 2018 Meeting

#### Agriculture – Pages 1-12

#### Entomology

#### Changes to the Entomology Minor

<p>General Requirements (15 credit hours)</p> <p>The following 6 credit hours are required, as outlined below:</p> <ul style="list-style-type: none"> <li>• ENTOM 300 – Economic Entomology Credits: 3</li> <li>• or</li> <li>• ENTOM 312 – General Entomology Credits: 3</li> <li>• ENTOM 320 – Horticultural Entomology Credits: 3</li> <li>• or</li> <li>• ENTOM 305 – Animal Health Entomology Credits: 2</li> <li>• and</li> <li>• ENTOM 306 – Animal Health Entomology Laboratory Credits: 4</li> <li>• or</li> <li>• ENTOM 710 – Insect Taxonomy Credits: 3</li> </ul> <p>At least 9 credit hours from Block A and/or Block B are also required. Courses offered outside the Entomology department (Block B) can count toward the minor if they are requirements/electives of specific curricula or if prior approval is obtained from the Minor advisor.</p> <p><b>Block A</b></p> <ul style="list-style-type: none"> <li>• ENTOM 620 – Insecticides: Properties and Laws <b>Credits: 2</b></li> <li>• ENTOM 692 – Insect Ecology Credits: 3</li> <li>• ENTOM 799 – Problems in Entomology Credits: 1-18</li> <li>• Insect Behavior Credits: 3</li> <li>• Insect Ecology Credits: 3</li> <li>• Insect Genetics Credits: 3</li> <li>• Insect Physiology Credits: 3</li> <li>• Biological Control Credits: 3</li> <li>• Insect Control by Host Plant Resistance Credits: 3</li> <li>• Insects of Stored Products Credits: 3</li> <li>• Seminar: Special Topics Credits: 4</li> </ul> <p><b>Block B</b></p> <p>The following, or other Minor advisor approved courses, may count towards the minor:</p> <ul style="list-style-type: none"> <li>• BIOL 455 – General Microbiology <b>Credits: 4</b></li> <li>• BIOL 529 – Fundamentals of Ecology <b>Credits: 3</b></li> <li>• BIOL 612 – Freshwater Ecology <b>Credits: 4</b></li> <li>• BIOL 625 – Animal Parasitology <b>Credits: 4</b></li> <li>• BIOL 697 – Topics in Biology <b>Credits: 1-6 (Behavioral)</b></li> </ul>	<p>General Requirements (15 credit hours)</p> <p><u>(1) 3 Credit hours from one of the following Introductory Courses:</u></p> <table border="0"> <tr> <td>ENTOM 300</td> <td>Economic Entomology Credits: 3</td> </tr> <tr> <td>ENTOM 301</td> <td>Insects and People Credits: 3</td> </tr> <tr> <td>ENTOM 305 &amp; 306</td> <td>Animal Health Entomology Credits: 2</td> </tr> <tr> <td></td> <td>Animal Health Entomology Lab Credits: 1</td> </tr> <tr> <td>ENTOM 312</td> <td>General Entomology Credits: 3</td> </tr> </table> <p><u>(2) 12 Credit hours, at or above the 300 level, from any Entomology course not taken above, including at least 3 Credit hours at or above the 500 level.</u></p> <p><u>(i) up to 3 Credit hours, at or above 400 level, from any Department, in the student's area of entomological interest can be applied to these 12 hours. Approval by Entomology is required.</u></p> <p><u>(ii) in special circumstances, up to 3 additional Credit hours from a non-Entomology STEM course directly related to Entomology, or covering Entomological topics, can also be applied to these 12 Credit hours. Approval by Entomology is required.</u></p>	ENTOM 300	Economic Entomology Credits: 3	ENTOM 301	Insects and People Credits: 3	ENTOM 305 & 306	Animal Health Entomology Credits: 2		Animal Health Entomology Lab Credits: 1	ENTOM 312	General Entomology Credits: 3
ENTOM 300	Economic Entomology Credits: 3										
ENTOM 301	Insects and People Credits: 3										
ENTOM 305 & 306	Animal Health Entomology Credits: 2										
	Animal Health Entomology Lab Credits: 1										
ENTOM 312	General Entomology Credits: 3										

Ecology)	
● <del>GRSC 651 – Food and Feed Product Protection</del> <b>Credits: 4</b>	
● <del>HORT 582 – Foundations of Horticultural Pest Management</del> <b>Credits: 4</b>	
● <del>PLPTH 500 – Principles of Plant Pathology</del> <b>Credits: 3</b>	

**Rationale:** To allow the same flexibility in our undergraduate program as we have in our graduate program. Our goal is to be a "student-centered" program with the flexibility to allow students to build an Entomology minor around their interests and career goals.

**Impact (i.e. if this impacts another unit) – Statement should include the date when the head of a unit was contacted, and the response or lack of:** no impact

## Horticulture and Natural Resources

### **B.S. in Agriculture: Golf Course and Sports Turf Management Specialization**

FROM:

TO:

<b>Technical Core</b> (14 hours)	<b>Technical Core</b> (14 hours)
BIOL 198* Principles of Biology (4)	BIOL 198* Principles of Biology (4)
CHM 110* General Chemistry (3)	CHM 110* General Chemistry (3)
CHM 110 General Chemistry Lab (1)	CHM 110 General Chemistry Lab (1)
MATH 100* College Algebra (3)	MATH 100* College Algebra (3)
Statistics elective (3)	Statistics elective (3)
<b>Communications and Interpersonal Relations</b> (17 hours)	<b>Communications and Interpersonal Relations</b> (17-19 hrs)
COMM 105 - Public Speaking IA (2)	COMM 105 - Public Speaking IA (2)
ENGL 100 - Expository Writing I (3)	ENGL 100 - Expository Writing I (3)
ENGL 200 - Expository Writing II (3)	ENGL 200 - Expository Writing II (3)
Communication electives (9)	Communication electives (9-11)
<b>Internship</b> (7 hours)	<b>Internship</b> (7 hours)
HORT 190* Preparing for your Horticulture Career (1)	HORT 190* Preparing for your Horticulture Career (1)
HORT 590* Hort. Internship (golf facility) (3)	HORT 590* Hort. Internship (golf facility) (6)
Plus a second internship as listed below:	
<del>HORT 590* Horticulture Internship (3)</del>	
<del>OR</del>	
<del>HMD 495* Golf Course Internship in Hospitality Management (3)</del>	
HORT 599 The Hort. Professional (0)	HORT 599 The Hort. Professional (0)
<b>Humanities and Social Sciences</b> (12-14 hours)	<b>Humanities and Social Sciences</b> (6 hours)
ECON 110* Prin. of Macroeconomics (3)	ECON 110* Prin. of Macroeconomics (3)
ECON 120* Prin. of Microeconomics (3)	<u>OR</u>
OR	ECON 120* Prin. of Microeconomics (3)
AGED 120* Agric. Econ. & Agribus. (3)	OR
<del>Foreign Language elective (3-5)</del>	AGED 120* Agric. Econ. & Agribus. (3)
Humanities and Soc. Sci. electives (3)	Humanities and Soc. Sci. electives (3)

<b>Business Management</b> (15 hours) ACCTG 231* Accounting for Bus. Op. (3) ACCTG 241* Accounting for Inv. & Fin. (3) MANGT 420* Management Concepts (3) MKTG 400* Marketing (3) Business Management elective (3)	<b>Business Management</b> (15 hours) ACCTG 231* Accounting for Bus. Op. (3) ACCTG 241* Accounting for Inv. & Fin. (3) MANGT 420* Management Concepts (3) MKTG 400* Marketing (3) Business Management elective (3)
<b>Turf Management Specialization</b> (41-42 hours) AGRON 305* Soils (4) <del>AGRON 375* Soil Fertility (3)</del> HORT 201* Prin. of Hort. Science (4) HORT 350 Plant Propagation (3) Hort 374 Landscape Plants I (3) HORT 515* Basic Turfgrass Culture (2) <del>HORT 516* Int. Cult. Golf/Sports Turf (1)</del> <del>HORT 517 Golf &amp; Sports Turf Op. (3)</del> <del>HORT 550 Landscape Irrig. Systems (3)</del> HORT 582 Foundations of Hort. Pest Mgt. (1) HORT 587* Turfgrass Disease Mgt. (1) HORT 588* Turfgrass Weed Mgt. (1) <del>ENTOM 589* Turfgrass Insect Mgt. (1)</del> <del>HORT 706 Turfgrass Science (3)</del> PLPTH 500* Prin. of Plant Pathology (3) Environmental elective (3) Horticulture elective (2-3)	<b>Turf Management Specialization</b> (43-44 hours) AGRON 305* Soils (4) HORT 201* Prin. of Hort. Science (4) HORT 350 Plant Propagation (3) Hort 374 Landscape Plants I (3) HORT 515* Basic Turfgrass Culture (3) <del>HORT 550 Horticultural Irrig. Systems (3)</del> <del>HORT 508 Sustainable Land. Maint. Practices (2)</del> or <del>HORT 585 Arboriculture (3)</del> <del>HORT 570 Greenhouse Op. Management (3)</del> OR <del>HORT 600 Herbaceous Crop Production (3)</del> HORT 582 Foundations of Hort. Pest Mgt. (1) HORT 587* Turfgrass Disease Mgt. (1) HORT 588* Turfgrass Weed Mgt. (1) <del>HORT 706 Advanced Culture of Golf and Sports Turf (3)</del> <del>Entomology elective (3)</del> PLPTH 500* Prin. of Plant Pathology (3) Environmental elective (3) Horticulture elective (3)
<b>Hospitality electives</b> (9 hours) Select 9 hours from the following list: HMD 220 Environ. Issues in Hosp. (3) HMD 340 Cont. Issues in Cont. Bev. (2) HMD 341 Prin. of Food Prod. Mgt. (3) HMD 421 Hospitality Service Systems (3) HMD 331 Professional Club Mgt. (3) HMD 424 Hosp. Marketing & Sales (3) HMD 621 Hospitality Law (3)	<b>Hospitality electives</b> (9 hours) Select 9 hours from the following list: HMD 220 Environ. Issues in Hosp. (3) HMD 340 Cont. Issues in Cont. Bev. (2) HMD 341 Prin. of Food Prod. Mgt. (3) HMD 421 Hospitality Service Systems (3) HMD 331 Professional Club Mgt. (3) HMD 424 Hosp. Marketing & Sales (3) HMD 621 Hospitality Law (3)
<b>Free electives</b> (8-11 hours)	<b>Free electives</b> (6-9 hours)
<b>Total Credit Hours</b> (126 hours)	<b>Total Credit Hours</b> (120 hours)
<b>Electives From Which to Choose:</b>  <b>Business Management Electives</b> 3 AGEC 202* Small Business Operations 3 FINAN 450* Principles of Finance 3 MANGT 390* Business Law 1 3 ENTRP 340* Intro. to Entrepreneurship 3 FINAN 460* Insurance 3 MKTG 450* Consumer Behavior 3	<b>Electives From Which to Choose:</b>  <b>Business Management Electives</b> 3 AGEC 202* Small Business Operations 3 FINAN 450* Principles of Finance 3 MANGT 390* Business Law 1 3 ENTRP 340* Intro. to Entrepreneurship 3 FINAN 460* Insurance 3 MKTG 450* Consumer Behavior 3

<b>Communications Electives</b> <b>9</b> AGCOM 400 Agric. Business Comm. 3 ENGL 300 Expository Writing III 3 ENGL 516 Written Comm. for the Sci. 3 MKTG 542* Personal Selling & Sales Mgt. 3 COMM 311* Bus. and Prof. Speaking 3 COMM 321* Public Speaking II 3 COMM 322* Interpersonal Comm. 3 COMM 323* Nonverbal Comm. 3 COMM 325* Argumentation & Debate 3 COMM 326* Small Group Disc. Meth. 3  <b>Environmental Elective</b> <b>3</b> AGRON 335* Environmental Quality 3 PMC 275* Intro. to Natural Resource Mgt. 3 HORT 405* Water Iss./Lawn & Landscape 3 LAR 322* Env. Issues & Ethics 3  <b>Foreign Language Elective</b> <b>3-5</b> Any introductory (or higher) course in a Modern Language. One of the following is preferred: SPAN 161* Spanish 1 5 SPAN 162* Spanish 2 5 SPAN 261* Spanish 3 5 SPAN 361* Spanish 4 4  <b>Horticulture Elective</b> <b>2-3</b> AGRON 746 Physical Properties of Soil 3 HORT 375 Landscape Plants II 3 HORT 405* Water Iss./Lawn & Landscape 3 HORT 508* Sust. Landscape Maint. Pract. 2 HORT 585* Arboriculture 3 HORT 790* Sustainable Agriculture 2 PLPTH 590* Landscape Diseases 2  <b>Statistics Elective</b> <b>3</b> STAT 325* Intro. to Statistics 3 STAT 340* Biometrics I 3 STAT 350* Bus. and Economic Statistics I 3	<b>Communications Electives</b> <b>9-11</b> AGCOM 400 Agric. Business Comm. 3 ENGL 300 Expository Writing III 3 ENGL 516 Written Comm. for the Sci. 3 MKTG 542* Personal Selling & Sales Mgt. 3 COMM 311* Bus. and Prof. Speaking 3 COMM 321* Public Speaking II 3 COMM 322* Interpersonal Comm. 3 COMM 323* Nonverbal Comm. 3 COMM 325* Argumentation & Debate 3 COMM 326* Small Group Disc. Meth. 3 <u>Any introductory (or higher) course in a Modern Language.</u> <u>3-5</u> <b>Environmental Elective</b> <b>3</b> AGRON 335* Environmental Quality 3 PMC 275* Intro. to Natural Resource Mgt. 3 HORT 405* Water Iss./Lawn & Landscape 3 LAR 322* Env. Issues & Ethics 3  <b>Horticulture Elective</b> <b>2-3</b> <u>AGRON 375 – Soil Fertility</u> <u>3</u> AGRON 746 Physical Properties of Soil 3 HORT 375 Landscape Plants II 3 HORT 405* Water Iss./Lawn & Landscape 3 HORT 508* Sust. Landscape Maint. Pract. 2 HORT 585* Arboriculture 3 <u>(HORT 508 or 585 cannot be taken to fulfill both Turf Mgmt Specialization and Hort Elective requirement)</u> HORT 790* Sustainable Agriculture 2 PLPTH 590* Landscape Diseases 2  <b>Statistics Elective</b> <b>3</b> STAT 325* Intro. to Statistics 3 STAT 340* Biometrics I 3 STAT 350* Bus. and Economic Statistics I 3  <b>Entomology Elective</b> <b>3</b> <u>ENTOM 312 General Entomology</u> <u>3</u> <u>ENTOM 320 Economic Entomology</u> <u>3</u>
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**RATIONALE:** This proposed curriculum change responds to the Kansas Board of Regents' mandate to reduce graduation requirements to 120 credit hours. The revision also aims to improve advising efficiency, enhance student accessibility to courses, strengthen the common core of Horticulture courses to advance our assessment program, and respond to staffing limitations.

**IMPACT:** These changes could potentially influence enrollment in Modern Languages courses, although not significantly because advisors will continue to recommend courses there. The Modern Languages department has been notified of the changes (see attached communication).

**EFFECTIVE DATE:** Fall 2018.

## Horticulture (B.S.) - Horticulture Production Option

<b>Communications</b> (14-16 hours) ENGL 100 - Expository Writing I (3) ENGL 200 - Expository Writing II (3) COMM 105 - Public Speaking IA (2) <del>Communication elective</del> (3) <del>Modern Language elective</del> (3-5)	<b>Communications</b> (11-13 hours) ENGL 100 - Expository Writing I (3) ENGL 200 - Expository Writing II (3) COMM 105 - Public Speaking IA (2) <del>Communication/Non-English Language elective</del> (3-5)
<b>Humanities/Social Sciences Electives</b> (6 hours) Elective (3) Elective (3)	<b>Humanities/Social Sciences Electives</b> (6 hours) Elective (3) Elective (3)
<b>Quantitative Sciences</b> (15 hours) BIOCHM 265* - Intro. Organic Biochemistry (5) CHM 110* - General Chemistry (3) and CHM 111* - General Chemistry Laboratory (1) MATH 100* – College Algebra (3) Math/Physics/Statistics elective (3)	<b>Quantitative Sciences</b> (15 hours) BIOCHM 265* - Intro. Organic Biochemistry (5) CHM 110* - General Chemistry (3) and CHM 111* - General Chemistry Laboratory (1) MATH 100* – College Algebra (3) Math/Physics/Statistics elective (3)
<b>Biological/Environmental Sciences</b> (24-25 hours) AGRON 305* - Soils (4) BIOL 198* - Principles of Biology (4) BIOL 500 – Plant Physiology (3-4) HORT 201* – Princ. of Horticulture Science (4) PLPTH 500* – Princ. Plant Pathology (3) Environmental Science/Biology elective (3) Entomology elective (3)	<b>Biological/Environmental Sciences</b> (24-25 hours) AGRON 305* - Soils (4) BIOL 198* - Principles of Biology (4) BIOL 500 – Plant Physiology (3-4) HORT 201* – Princ. of Horticulture Science (4) PLPTH 500* – Princ. Plant Pathology (3) Environmental Science/Biology elective (3) Entomology elective (3)
<b>Econ/Business Electives</b> (15-hours) ACCTG 231* – Accounting for Bus. Ops. (3) ECON 110* – Princ. of Macroeconomics (3) or ECON 120* – Princ. of Microeconomics (3) <del>Econ./Business electives</del> (9)	<b>AgEcon/Econ/Business/Entrepreneurship</b> (12 hours) ECON 110* – Princ. of Macroeconomics (3) Or ECON 120* – Princ. of Microeconomics (3) Or <u>AGEC 120* Agr. Econ. and Agribus.</u> (3) ACCTG 231* – Accounting for Bus. Ops. (3) <u>Ag.Econ./Econ/Business/Entrepreneurship Elective</u> (3) <u>Ag.Econ./Econ/Business/Entrepreneurship Elective</u> (3)
<b>Horticulture Core Requirements</b> (14 hours) HORT 190* - Preparing for your Horticulture Career (1) HORT 350 – Plant Propagation (3) HORT 374 – Landscape Plants I (3) HORT 520* – Fruit Production (3) or HORT 560* – Vegetable Crop Production (3) or HORT 570* – Greenhouse Operations Mgmt. (3) or <del>HORT 575* – Nursery Management</del> (3) HORT 582 – Foundations of Hort. Pest Mgt. (1) HORT 590* – Hort. Internship (3)	<b>Horticulture Core Requirements</b> (23 hours) HORT 190* - Preparing for your Horticulture Career (1) HORT 350 – Plant Propagation (3) HORT 374 – Landscape Plants I (3) HORT 520* – Fruit Production (3) or HORT 560* – Vegetable Crop Production (3) <u>HORT 550 – Horticultural Irrigation Systems</u> (3) HORT 570* – Greenhouse Operations Mgmt. (3) HORT 582 – Foundations of Hort. Pest Mgt. (1) HORT 590* – Hort. Internship (3)

HORT 599 – Hort.Professional (0)	HORT 599 – Hort.Professional_ (0)
<b>Horticulture Production Specialization (14 hours)</b>	<b>Horticulture Production Specialization (26 hours)</b>
HORT 375 – Landscape Plants II (3)	HORT 375 – Landscape Plants II (3)
PLPTH 590 – Landscape Diseases (2)	PLPTH 590 – Landscape Diseases (2)
OR	OR
Pest Mgmt. Elective (2)	HORT 587* Turfgrass Disease Mgt. (1)
<del>HORT 600* – Herbaceous Crop Production (3)</del>	<del>HORT 588* Turfgrass Weed Mgt. (1)</del>
Plus, choose two of the following courses:	<i>Plus, select 21 credit hours from the list below. (21 hours)</i>
<del>HORT 520* – Fruit Production (3)</del>	HORT 210 – Concepts of Floral Design (3)
<del>HORT 560* – Vegetable Crop Production (3)</del>	HORT 275* – Horticultural Design I (3)
<del>HORT 570* – Greenhouse Operations Mgmt. (3)</del>	<del>HORT 301 – Horticulture Practicum (1-3)</del>
<b>Specialization Electives (20 hours)</b>	<del>HORT 390 – Horticulture Topics (1-3)</del>
<i>Select 20-credit hours from the list below.</i>	<del>HORT 325* – Intro. Organic Farming (2)</del>
HORT 210 – Concepts of Floral Design (3)	<del>HORT 377 – Interior Landscaping (3)</del>
HORT 275* – Horticultural Design I (3)	AGRON 330* – Weed Science (3)
HORT 325* – Intro. Organic Farming (2)	AGRON 375 – Soil Fertility (3)
AGRON 330* – Weed Science (3)	HORT 495 – Undergraduate Research in Hort. (3)
AGRON 375 – Soil Fertility (3)	HORT 508 – Sustainable Land. Maint. Practices (2)
HORT 508 – Sustainable Land. Maint. Practices (2)	HORT 515* – Basic Turfgrass Culture (3)
HORT 515* – Basic Turfgrass Culture (2)	HORT 520* – Fruit Production (3)
HORT 520* – Fruit Production (3)	HORT 551 – Landscape Contracting/Constr. (3)
HORT 550 – Landscape Irrigation Systems (3)	HORT 560* – Vegetable Crop Production (3)
HORT 551 – Landscape Contracting/Constr. (3)	HORT 575* – Nursery Management (3)
HORT 560* – Vegetable Crop Production (3)	HORT 585* – Arboriculture (3)
<del>HORT 570* – Greenhouse Operations Mgmt. (3)</del>	<del>HORT 595* – Horticulture Study Abroad (3)</del>
HORT 575* – Nursery Management (3)	HORT 640 – Horticulture Problems (0-3)
HORT 585* – Arboriculture (3)	HORT 625* – Floral Crops Prod./Handling (2)
<del>HORT 640 – Prb./Landscape Irrigation Design (3)</del>	HORT 710 – Plant Cell, Tissue & Organ Cult. (3)
HORT 625* – Floral Crops Prod./Handling (2)	HORT 780 – Health-Promoting Phytochemicals:
HORT 710 – Plant Cell, Tissue & Organ Cult. (3)	Fruits and Vegetables (2)
HORT 780 – Health-Promoting Phytochemicals:	HORT 790* – Sustainable Agriculture (2)
Fruits and Vegetables (2)	HORT 791* – Urban Agriculture (2)
HORT 790* – Sustainable Agriculture (2)	<u>Any Biology or Agronomy course 300 or above (3)</u>
HORT 791* – Urban Agriculture (2)	
PLPTH 590 – Landscape Diseases (2)	
<b>Free Electives (0-5 credit hours)</b>	<b>Free Electives (0-3 credit hours)</b>
<b>Total Credits for Graduation (126-credit hours)</b>	<b>Total Credits for Graduation (120 credit hours)</b>
<b>DESIGNATED ELECTIVES</b>	<b>DESIGNATED ELECTIVES</b>
(NOTE: Confer with advisor to select appropriate courses.)	(NOTE: Confer with advisor to select appropriate courses.)
<b>Econ./Business Electives (9-hours)</b>	<b>AgEcon/Econ/Business/Entreprn. Electives (12 hours)</b>
Any ACCTG course 200 or above excl. ACCTG 231	Any ACCTG course 200 or above excl. ACCTG 231
	<u>Econ 110 Macroeconomics 3</u>

<p>AGEC 120* Agr. Econ. and Agribus. 3 (F,S) (Select only if ECON 120 not taken) Any AGECE course 200 or above Any MANGT course 300 or above MC 120* Principles of Advertising 3 (F,S) MC 180 Fund. of Public Relations 3 (F,S) Any MKTG course 300 or above Any ECON course 300 or above</p> <p><b>Communications Electives</b> 3  AGCOM 400 Agric. Business Comm. 3  ENGL 300 Expository Writing III 3  ENGL 516 Written Comm. for the Sci. 3  MKTG 542* Personal Selling &amp; Sales Mgt. 3  COMM 311* Bus. and Prof. Speaking 3  COMM 321* Public Speaking II 3  COMM 322* Interpersonal Comm. 3  COMM 323* Nonverbal Comm. 3  COMM 325* Argumentation &amp; Debate 3  COMM 326* Small Group Disc. Meth. 3</p> <p><b>Entomology Elective</b> 3 hrs.  ENTOM 300* Economic Entomology 3 (S)  ENTOM 312* General Entomology 3 (F)  ENTOM 320* Horticultural Entomology 3 (F)</p> <p><b>Environmental Elective</b> 3  AGRON 335* Environmental Quality 3  PMC 275* Intro. to Natural Resource Mgt. 3  HORT 405* Water Iss./Lawn &amp; Landscape 3  LAR 322* Env. Issues &amp; Ethics 3</p> <p><b>Foreign Language Elective</b> 3-5  Any introductory (or higher) course in a Modern Language. Preferred course:  SPAN 161* Spanish I 5</p> <p><b>Plant Materials Elective</b> 6 hrs.  HORT 374 Landscape Plants I 3 (F)  HORT 375 Landscape Plants II 3 (S)</p> <p><b>Statistics Elective</b> 3  STAT 325* Intro. to Statistics 3  STAT 340* Biometrics I 3  STAT 350* Bus. and Economic Statistics I 3</p>	<p>AGEC 120* Agr. Econ. and Agribus. 3 (F,S) (Select only if ECON 120 not taken) Any AGECE course 200 or above Any MANGT course 300 or above MC 120* Principles of Advertising 3 (F,S) MC 180 Fund. of Public Relations 3 (F,S) Any MKTG course 300 or above Any ECON course 300 or above <u>Any Entrepreneurship course</u></p> <p><b>Communications Electives</b> 3-5  <u>Includes any course at 300-level or above from:</u>  <u>AGCOM, COMM, or ENGL</u>  <u>or HORT 595 Horticulture Study Abroad</u>  <u>or any non-English language course.</u></p> <p><b>Entomology Elective</b> 3  ENTOM 300 Economic Entomology 3  ENTOM 312* General Entomology 3</p> <p><b>Environmental Science Elective</b> 3  AGRON 335* Environmental Quality 3  PMC 275* Intro. to Natural Resource Mgt. 3  HORT 405* Water Iss./Lawn &amp; Landscape 3  LAR 322* Env. Issues &amp; Ethics 3</p> <p><b>Statistics Elective</b> 3  STAT 325* Intro. to Statistics 3  STAT 340* Biometrics I 3  STAT 350* Bus. and Economic Statistics I 3</p>
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**RATIONALE:**

This proposed curriculum change responds to the Kansas Board of Regents' mandate to reduce graduation requirements to 120 credit hours. The revision also aims to improve advising efficiency, enhance student accessibility to courses, strengthen the common core of Horticulture courses to advance our assessment program, and respond to staffing limitations.

EFFECTIVE DATE: Fall 2018.

<p><b>Communications</b> (<del>17-19</del> credit hours)</p> <p>ENGL 100 - Expository Writing I (3)  ENGL 200 - Expository Writing II (3)  COMM 105 - Public Speaking IA (2)  <del>Foreign Language Elective (3-5)</del>  <del>Speech Elective (3)</del>  Writing Elective (3)</p> <p><b>Humanities/Social Sciences Electives</b> (6 credit hours)</p> <p><del>GEOG 100 – World Regional Geography (3)</del>  or  <del>PSYCH 110 – General Psychology (3)</del>  or  <del>SOCIO 211 – Intro to Sociology (3)</del>  Humanities elective (3)</p> <p><b>Quantitative Sciences</b> (<b>22</b> credit hours)</p> <p>CHM 210 – Chemistry I (4)  CHM 230 – Chemistry II (4)  CHM 350 – Gen. Organic Chemistry (3)  MATH 205 – Gen. Calc. &amp; Lin. Algebra (3)  PHYS 115 – Descriptive Physics (5)  Statistics Elective (3)</p> <p><b>Agric./Biological Sciences</b> (<del>33-34</del> credit hours)</p> <p>AGRON 305 - Soils (4)  ASI 500 – Genetics (3)  or  BIOL 450 – Modern Genetics (3)  BIOCH 521 – Gen. Biochemistry (3)  BIOCH 522 – Gen. Biochemistry Lab (2)  BIOL 198 - Principles of Biology (4)  BIOL 500 – Plant Physiology (3)  BIOL 501 – Plant Physiology Lab (1)</p>	<p><b>Communications</b> (<u>14-16</u> hours)</p> <p>ENGL 100 - Expository Writing I (3)  ENGL 200 - Expository Writing II (3)  COMM 105 - Public Speaking IA (2)  Writing Elective (3)  Communication elective (3-5)</p> <p><b>Humanities/Social Sciences Electives</b> (6 hours)</p> <p></p> <p><b>Quantitative Sciences</b> (22 hours)</p> <p>CHM 210 – Chemistry I (4)  CHM 230 – Chemistry II (4)  CHM 350 – Gen. Organic Chemistry (3)  MATH 205 – Gen. Calc. &amp; Lin. Algebra (3)  PHYS 115 – Descriptive Physics (5)  Statistics Elective (3)</p> <p><b>Agric./Biological Sciences</b> (<u>35-36</u> hours)</p> <p>AGRON 305 - Soils (4)  ASI 500 – Genetics (3)  or  BIOL 450 – Modern Genetics (3)  BIOCH 521 – Gen. Biochemistry (3)  BIOCH 522 – Gen. Biochemistry Lab (2)  BIOL 198 - Principles of Biology (4)  BIOL 500 – Plant Physiology (3)  BIOL 501 – Plant Physiology Lab (1)</p>
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HORT 201 – Princ. of Horticulture Science (4) PLPTH 500 – Princ. Plant Pathology (3) PLPTH 590 –Landscape Plant Diseases (2) Biology Elective (3-4) Entomology Elective (3)  <b>Ag. Econ./Business Electives (6 credit hours)</b> ACCTG 231 – Accounting for Bus. Ops. (3) ECON 110 – Princ. of Macroeconomics (3) or ECON 120 – Princ. of Microeconomics (3)  <b>Horticulture Requirement (<del>19-20</del> credit hours)</b>  HORT 190- Pre-Internship in Horticulture (1) HORT 350 – Plant Propagation (3) HORT 520 – Fruit Production (3) or HORT 560 – Vegetable Crop Production (3) HORT 570 – Greenhouse Ops. Mgt. (3) HORT 582 – Foundations of Hort. Pest Mgt. (1) HORT 590 – Hort. Internship ( <del>2-3</del> ) HORT 599 – The Horticultural Professional (0) HORT 710 – Plant Cell. Tissue & Organ Cult. (3) <del>Environmental Science Elective (3)</del>  <b>Plant Science Electives (15 credit hours)</b> Any Horticulture 300 level or above not otherwise required with up to: 3 credits from Plant Pathology 500 level or above excluding PLPTH 500; 3 credits from Entomology 500 level or above; 3 credits from Agronomy 300 level or above, excluding AGRON 305  <b>Free Electives (<del>4-8</del> credit hours)</b>  <b>Total Credits for Graduation (<del>126</del> credit hours)</b>	HORT 201 – Princ. of Horticulture Science (4) PLPTH 500 – Princ. Plant Pathology (3) PLPTH 590 –Landscape Plant Diseases (2) Biology Elective/ <u>Environmental Sci. Elect.</u> (3-4) Entomology Elective (3)  <b>AgEcon/Econ/Business Elect. (6 hours)</b> ACCTG 231 – Accounting for Bus. Ops. (3) ECON 110 – Princ. of Macroeconomics (3) Or ECON 120 – Princ. of Microeconomics (3) or <u>AGEC 120 Agr. Econ. and Agribus. (3)</u>  <b>Horticulture Requirement (<u>23</u> hours)</b>  HORT 190- Pre-Internship in Horticulture (1) HORT 350 – Plant Propagation (3) HORT 520 – Fruit Production (3) or HORT 560 – Vegetable Crop Production (3) HORT 570 – Greenhouse Ops. Mgt. (3) HORT 582 – Foundations of Hort. Pest Mgt. (1) HORT 590 – Hort. Internship ( <u>3</u> ) HORT 599 – The Horticultural Professional (0) HORT 710 – Plant Cell. Tissue & Organ Cult. (3) HORT 300-799 (6)  <b>Plant Science Electives (<u>9</u> hours)</b>  Select 9 hours from: BIOL 502-799 PLPTH 501-799 ENTOM 500-799 AGRON 300-799 HORT 300-799  <b>Free Electives (<u>5</u> credit hours)</b>  <b>Total Credits for Graduation (<u>120</u> credit hours)</b>
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**RATIONALE:**

This proposed curriculum change responds to the Kansas Board of Regents' mandate to reduce graduation requirements to 120 credit hours. The revision also aims to improve advising efficiency, enhance student accessibility to courses, strengthen the common core of Horticulture courses to advance our assessment program, and respond to staffing limitations.

**IMPACT:**

These changes could potentially influence enrollment in Division of Biology and Modern Languages courses, although not significantly because advisors will

continue to recommend courses in both areas. Both programs have been notified of the changes (see attached communication).

EFFECTIVE DATE: Fall 2018.

## Horticulture (B.S.) - Landscape Horticulture Option

FROM:

TO:

<b>Communications</b> (14-16 hours)		<b>Communications</b> (11-13 hours)	
COMM 105 - Public Speaking IA	(2)	COMM 105 - Public Speaking IA	(2)
ENGL 100 - Expository Writing I	(3)	ENGL 100 - Expository Writing I	(3)
ENGL 200 - Expository Writing II	(3)	ENGL 200 - Expository Writing II	(3)
<del>Communication elective</del>	<del>(3)</del>	<u>Communication elective</u>	<u>(3-5)</u>
<del>Modern Language elective</del>	<del>(3-5)</del>		
<b>Humanities/Social Sciences Electives</b> (6 hours)		<b>Humanities/Social Sciences Electives</b> (6 hours)	
Elective	(3)		
Elective	(3)		
<b>Biological/Quantitative Sciences</b> (22 hours)		<b>Quantitative Sciences</b> (15 hours)	
BIOCHM 265 - Intro. Organic Biochemistry	(5)	BIOCHM 265 - Intro. Organic Biochemistry	(5)
<del>BIOL 198 - Principles of Biology</del>	<del>(4)</del>	CHM 110 - General Chemistry	(3)
<del>BIOL 500 - Plant Physiology</del>	<del>(3-4)</del>	and	
CHM 110 - General Chemistry	(3)	CHM 111 - General Chemistry Laboratory	(1)
and		MATH 100 - College Algebra	(3)
CHM 111 - General Chemistry Laboratory	(1)	Math/Physics/Statistics Elective	(3)
MATH 100 - College Algebra	(3)		
Math/Physics/Statistics Elective	(3)	<b>Biological/Environmental Sciences</b> (20 hours)	
		<u>AGRON 305 - Soils</u>	<u>(4)</u>
		<u>BIOL 198 - Principles of Biology</u>	<u>(4)</u>
		<u>BIOL 500 - Plant Physiology</u>	<u>(3)</u>
		<u>PLPTH 500 - Princ. Plant Pathology</u>	<u>(3)</u>
		<u>Environmental Science/Biology elective</u>	<u>(3)</u>
		<u>Entomology elective</u>	<u>(3)</u>
		<b>AgEcon/Econ/Business/Entrepreneurship</b> (12 hours)	
<b>Econ/Business Electives</b> (15 hours)		ECON 110 - Princ. of Macroeconomics	(3)
ACCTG 231 - Accounting for Bus. Ops.	(3)	Or	
ECON 110 - Princ. of Macroeconomics	(3)	ECON 120 - Princ. of Microeconomics	(3)
or		Or	
ECON 120 - Princ. of Microeconomics	(3)	<u>AGEC 120 Agr. Econ. and Agribus.</u>	<u>(3)</u>
<del>Econ./Business electives</del>	<del>(9)</del>	ACCTG 231 - Accounting for Bus. Ops.	(3)
		<u>Ag.Econ./Econ/Business/Entrepreneurship Electives</u>	<u>(6)</u>
<b>Horticulture Core Requirements</b> (28 hours)		<b>Horticulture Core Requirements</b> (24 hours)	
<del>AGRON 305 - Soils</del>	<del>(4)</del>	HORT 190 - Preparing for your Horticulture Career	(1)
HORT 190 -Preparing for Your Horticulture Career	(1)	HORT 201 - Princ. of Horticulture Science	(4)
HORT 201 - Princ. of Horticulture Science	(4)	HORT 350 - Plant Propagation	(3)
HORT 350 - Plant Propagation	(3)	HORT 374 - Landscape Plants I	(3)
HORT 374 - Landscape Plants I	(3)	<u>HORT 550 - Horticultural Irrigation Systems</u>	<u>(3)</u>
HORT 582 - Foundations of Hort. Pest Mgt.	(1)	<u>HORT 570 - Greenhouse Operations Mgmt.</u>	<u>(3)</u>
HORT 590 - Hort. Internship	(3)	HORT 582 - Foundations of Hort. Pest Mgt.	(1)
HORT 599 - The Horticultural Professional	(0)	HORT 590 - Hort. Internship	(3)

<del>PLPTH 500 – Prine. Plant Pathology</del> (3)	HORT 599 – The Horticultural Professional (0)
<del>Entomology elective</del> (3)	<del>HORT 600 – Herbaceous Crop Production</del> (3)
<del>Environmental Sci./Biology Elective</del> (3)	
<b>Landscape Core Requirements</b> (20 hours)	<b>Landscape Core Requirements</b> (18 hours)
HORT 375 – Landscape Plants II (3)	HORT 375 – <u>Landscape Plants II</u> (3)
HORT 515 – Basic Turfgrass Culture (2)	HORT 515 – Basic Turfgrass Culture (3)
HORT 508 – Sustainable Land. Maint. Pract. (2)	HORT 508 – Sustainable Land. Maint. Pract. (2)
HORT 550 – <del>Landscape Irrigation Systems</del> (3)	HORT 551 – The Bus. of Landscape Contracting (1)
HORT 551 – The Bus. of Landscape Contracting (1)	HORT 552 – Hort. Landscape Construction (1)
HORT 552 – Hort. Landscape Construction (1)	HORT 585 – Arboriculture (3)
HORT 585 – Arboriculture (3)	<del>HORT 587 Turfgrass Disease Mgt.</del> (1)
<del>HORT 587, 588, or 589 Pest Mgmt. elective</del> (2)	<del>and</del>
or	<del>HORT 588 Turfgrass Weed Mgt.</del> (1)
PLPTH 590 – Landscape Diseases (2)	Or
<i>Plus, select one of the following:</i>	PLPTH 590 – Landscape Diseases (2)
HORT 275 – Horticultural Design 1 (3)	<i>Plus, select one of the following:</i>
HORT 520 – Fruit Production (3)	HORT 275 – Horticultural Design 1 (3)
HORT 560 – Vegetable Crop Production (3)	HORT 520 – Fruit Production (3)
<del>HORT 570 – Greenhouse Ops. Management</del> (3)	HORT 560 – Vegetable Crop Production (3)
<b>Specialization Electives</b> (16-19 hours)	<b>Specialization Electives</b> (10-12 hours)
<i>Select 16-19 hours from the list below.</i>	<i>Select a minimum of 10 hours from:</i>
AGRON 330 – Weed Science (3)	AGRON 330 – Weed Science (3)
AGRON 375 – Soil Fertility (3)	AGRON 375 – Soil Fertility (3)
HORT 210 – Concepts of Floral Design (3)	HORT 210 – Concepts of Floral Design (3)
<del>HORT 275 – Horticultural Design 1</del> (3)	<del>HORT 301 – Horticulture Practicum</del> (1-3)
<del>HORT 325 – Intro. Organic Farming</del> (2)	<del>HORT 377 – Interior Landscaping</del> (3)
HORT 405 – Water Issues/Lawn & Landscape (3)	<del>HORT 390 – Horticulture Topics</del> (1-3)
HORT 510 – Horticultural Design 2 (3)	HORT 405 – Water Issues/Lawn & Landscape (3)
<del>HORT 516 – Intensive Cult. Golf &amp; Sports Turf</del> (3)	<del>HORT 495 – Undergraduate Research in Hort.</del> (3)
HORT 520 – Fruit Production (3)	HORT 510 – Horticultural Design 2 (3)
HORT 545 – Comp. Apps. Hort. Design (3)	HORT 520 – Fruit Production (3)
<del>HORT 640 – Prb./Landscape Irrigation Design</del> (2)	HORT 545 – Comp. Apps. Hort. Design (3)
HORT 560 – Vegetable Crop Production (3)	<del>HORT 640 – Horticulture Problems</del> (0-3)
<del>HORT 570 – Greenhouse Ops. Management</del> (3)	HORT 560 – Vegetable Crop Production (3)
HORT 575 – Nursery Management (3)	HORT 575 – Nursery Management (3)
<del>HORT 587, 588, or 589 Pest Mgmt. Elective</del> (2)	<del>HORT 595 – Horticulture Study Abroad</del> (3)
<del>HORT 600 – Herbaceous Crop Production</del> (3)	HORT 625 – Floral Crop Production/Handling (2)
HORT 625 – Floral Crop Production/Handling (2)	<del>HORT 706 Adv. Culture of Golf and Sports Turf</del> (3)
HORT 706 – <del>Turfgrass Science</del> (3)	HORT 710 – Plant Cell, Tissue & Organ Cult. (3)
HORT 710 – Plant Cell, Tissue & Organ Cult. (3)	HORT 790 – Sustainable Agriculture (2)
HORT 790 – Sustainable Agriculture (2)	HORT 791 – Urban Agriculture (2)
HORT 791 – Urban Agriculture (2)	PLPTH 590 – Landscape Diseases (2)
PLPTH 590 – Landscape Diseases (2)	Surveying elective:
Surveying elective:	CE 212 – Elementary Surveying Engineering (3)
CE 212 – Elementary Surveying Engineering (3)	Or
or	ATM 558 – <u>Hydrology &amp; Soil Erosion Mgmt.</u> (3)
ATM 558 – <del>Soil Erosion, Sediment &amp; Poll. Contr.</del> (3)	<u>Any Biology or Agronomy course 300 or above</u> (3)
<b>Free electives</b> (0-5 credit hours)	<b>Free electives</b> (4 hours)
<b>Total Credits for Graduation</b> (126 credit hours)	<b>Total Credits for Graduation</b> (120 hours)

RATIONALE: This proposed curriculum change responds to the Kansas Board of Regents' mandate to reduce graduation requirements to 120 credit hours. The revision also aims to improve advising efficiency, enhance student accessibility to courses, strengthen the common core of Horticulture courses to advance our assessment program, and respond to staffing limitations.

IMPACT: These changes could potentially influence enrollment in Modern Languages courses, although not significantly because advisors will continue to recommend courses there. The Modern Languages department has been notified of the changes (see attached communication).

EFFECTIVE DATE: Fall 2018.