APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted, along with all required copies, to UCCC, Mail Stop 9699 (244 Magruder Street, 2nd Floor), Phone: 325-0831.

College: Agriculture & Life Sciences **Department:** Plant and Soil Sciences

Contact Person: Richard Harkess **Mail Stop:** 9555 **E-mail:** rlh18@msstate.edu

Nature of Change: Modification **Date:** 9/15/22

Program will be offered at: Starkville (Campus 1)

Current Degree Program Name: Bachelor of Science **Effective Date:** Fall 2023

Major: Horticulture **Concentration:** FLMG, FLOR, FRVP

New Degree Program Name: Select One

Major: **Concentration:**

Summary of Proposed Changes:

See the following pages for itemized list of proposed changes.

Darrin M. Dodds — Darrin Dodds — Digitally signed by Darrin Dodds Date: 2022.09.26 07:51:32 -05'00'

Department Head

Will Davis — Will Davis — Digitally signed by Will Davis Date: 2022.10.21 12:19:00 -05'00'

Chair, College or School Curriculum Committee

Darrell Sparks (For Scott Willard) — 10/31/22

Dean of College or School

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

☐ SACS Letter Sent

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted to UCCC Mail Stop 9702 (281 Garner Hall), Phone: 325-9410.

College: Agriculture & Life Sciences **Department:** Plant and Soil Sciences

Contact Person: Richard Harkess **Mail Stop:** 9555 **E-mail:** richard.harkess@msstate.edu

Nature of Change: Program Modification **Date Initiated:** 9/26/22 **Effective Date:** Fall 2023

Current Degree Program Name: Bachelor of Science

Major: Horticulture **Concentration:** FLMG, FLOR, FRVP

New Degree Program Name:

Major: **Concentration:**

Summary of Proposed Changes:

See the following pages for itemized list of proposed changes.

Approved:	Date:
Department Head	
Dana Pomykal Franz — Digitally signed by Dana Pomykal Franz Date: 2022.10.10 15:00:17 -05'00'	
Director of Academic Quality	
Chair, College or School Curriculum Committee	
Dean of College or School	
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council(if applicable)	
Chair, Deans Council	

Itemized Changes to the Horticulture Curriculum

1. Modified the PSS program description to include reference to the availability of the Distance Education graduate degree programs.

English Gen Ed

2. Deleted EN 1163 from English Gen Ed – course no longer taught.

Math Gen Ed

3. Deleted MA 1313 – no longer required in Gen Ed

Science Gen Ed – moved the following from major core to standardize the requirements across concentrations.

4. Added BIO 2113 or BIO 1144 to science Gen Ed
5. Added CH 1043 or CH 1213 to science Gen Ed
6. Added CH 1053 or CH 1223 to science Gen Ed.

Major Core –

7. Added CH 1051 or CH 1121 – moved from additional Gen Ed to Major Core
8. Added PSS 3413 or PSS 3433 – moved from concentration to Major Core
9. Added AEC 1223 or AELC 4203 – moved from Computer literacy requirement

10. Deleted Computer Literacy Requirement – moved computer course to Major Core

Itemized changes to Horticulture Floral Management concentration:

11. Moved the Biology and chemistry requirements from "Additional General Education Courses" to the Science Gen Ed and Major core.

FLMG Concentration Courses

12. Deleted PSS 3413 Floristry internship – moved to the major core.
13. Deleted PSS 3443 Permanent Floral Design – planned to be deleted in the near future
14. Added PSS 4013 Prin. Floral Design II
15. Deleted LA 2423 from the concentration courses as this course is no longer offered.
16. Deleted HS 2603 Interior Design Fundamentals – HS only opens 25 seats in this class and it is too difficult to schedule as a required course for students outside the HS major.
17. Added PSS 4613 Floral Crop Prog – moved from restricted electives to required.

FLMG Restricted Electives

18. Added HS 2603 – moved from required concentration.
19. Added MA 1313 College Algebra – instead of adding a free elective, this will give option of counting it or expanding the number of major specific electives.
20. Added PSS 3633 Sustainable and Organic Hort. to the restricted electives.
21. Added PSS 4553 Plant Growth and Development to the restricted electives.
22. Added PSS 4800 Undergraduate Research in PSS to the restricted electives.
23. Deleted PSS 4143 Adv. Fruit Science – Floral Management students rarely take.
24. Deleted PSS 4503 Plant Breeding. – Floral Management students rarely take.
25. Increased restricted electives from 6 to 12 hours to account for the courses dropped from the required concentration courses to bring degree total to 122 hours.

Itemized changes to Horticulture Floriculture and Ornamental Horticulture concentration:

26. Moved the Biology and chemistry requirements from "Additional General Education Courses" to the Science Gen Ed and Major core.

FLOR Concentration courses

27. Deleted BIO 1134 Biology I – it is not a prerequisite for BIO 1144 Biology II.
28. Added AEC 3133 Intro to Agribusiness Management to provide a business management course to the curriculum.
29. Deleted PSS 3433 Horticulture internship – moved to the major core.
30. Added PSS 4493 Plant Genetics as an alternative to PO 3103 Genetics. – new course in approval process.
31. Added PSS 4553 Plant Growth and Development.

FLOR Restricted Electives

32. Added MA 1313 College Algebra – instead of adding a free elective, this will give option of counting it or a major specific elective.
33. Added PSS 2543 Precision Ag I
34. Added PSS 3323 Hort Impacts on Society
35. Added PSS 4103 Prin Floral Design II
36. Added PSS 4153 Sust. Agroecology – furthers students options in sustainable production.
37. Added PSS 4383 Ag Remote Sensing I
38. Added PSS 4393 Ag Remote Sensing II
39. Added PSS 4473 Hydroponics and Soilless Crop Production
40. Added PSS 4543 Precision Ag II
41. Added PSS 4800 Undergraduate Research in PSS

    Deleted the following to help focus the restricted electives and remove courses no longer taught.

42. Deleted AEC 3413 Intro Food Marketing
43. Deleted BCH 4013 Prin. Biochemistry
44. Deleted BIO 4213 Plant Ecology
45. Deleted BIO 4404 Env. Microbiology
46. Deleted FLS 2133 Spanish III
47. Deleted FLS 2143 Spanish IV
48. Deleted LA 2253 Plant. Design Fund. Lands Arch. – no longer offered by LA.
49. Deleted LA 2433 Landscape Systems Plant Com. – no longer offered by LA.
50. Deleted MKT 3213 Retailing
51. Deleted PSS 3443 Perm Floral Design – replaced by PSS 4103
52. Deleted PSS 4414 Turfgrass Management
53. Deleted PSS 4553 Plant Growth & Development – moved to required concentration.

Itemized changes to Horticulture Fruit and Vegetable Production concentration:

54. Moved the Biology and chemistry requirements from "Additional General Education Courses" to the Science Gen Ed and Major core.

FRVP Concentration courses

55. Deleted BIO 1134 Biology I – it is not a prerequisite for BIO 1144 Biology II.
56. Added AEC 3133 Intro to Agribusiness Management.
57. Deleted PSS 3433 Horticulture internship – moved to the major core.
58. Added PSS 4493 Plant Genetics as an alternative to PO 3103 Genetics.
59. Added PSS 4473 Hydroponics & Soilless Crops

60. Added PSS 4553 Plant Growth and Development.
61. Deleted Free electives
62. Added/adjusted Restricted Electives from 12 to 18.

FRVP Restricted Electives

63. Added PSS 2543 Precision Ag I
64. Added PSS 3323 Hort Impacts on Society
65. Added PSS 4153 Sust. Agroecology
66. Added PSS 4383 Ag Remote Sensing I
67. Added PSS 4393 Ag Remote Sensing II
68. Added PSS 4543 Precision Ag II
69. Added PSS 4800 Undergraduate Research.

    Deleted the following to help focus the restricted electives and remove courses no longer taught.

70. Deleted AEC 3413 Intro Food Marketing
71. Deleted BIO 4203 Tax. of Spermatophytes
72. Deleted BIO 4213 Plant Ecology
73. Deleted BIO 4404 Env. Microbiology
74. Deleted FNH 4583 Food Preservation Technology
75. Deleted MKT 3213 Retailing
76. Deleted PH 1113 Gen. Physics
77. Deleted PSS 4553 Plant Growth & Development – moved to required concentration.

78. Adjusted final Hort/FRVP degree hours from 121 to 124

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF AGRICULTURE & LIFE SCIENCES
Department of Plant and Soil Sciences

117 Dorman Hall, Box 9555
32 Creelman Street
Mississippi State, MS 39762

P. 662.325.2311
F. 662.325.8742
www.pss.msstate.edu

September 23, 2022

University Courses & Curriculum Committee
Andy Perkins, Chair
281 Garner Hall;
Post Office Box 5268
Mailstop: 9702
Mississippi State, MS 39762

UCCC:

The PSS CCC met as a committee to discuss the proposed degree modification: Agronomy, Horticulture, and Environmental Sciences in Ag Systems. After review and discussion, the committee voted unanimously to support the degree modifications. The committee determined the degree modifications were deemed necessary to update the PSS curriculum to current practices, reflect current departmental curriculum needs, and are relevant to student success. These degrees do not represent a duplication of effort from other degrees offered at Mississippi State University.

Sincerely,

Richard L Harkess

Richard L. Harkess, Chair

Plant and Soil Sciences Courses & Curriculum Committee

PSS CCCommittee:

Michael S Cox
Michael Cox

Jagman Dhillon
Jagman Dhillon (Sep 23, 2022 16:55 CDT)
Jagman Dhillon

Fred Musser
Fred Musser (Sep 25, 2022 21:16 CDT)
Fred Musser

Coleman Etheredge
Cole Etheredge

William Kingery
William Kingery

Barry Stewart
Barry Stewart

c: Darrin Dodds, Dept. Head, PSS

Cindy Williams, Administrative Assistant

Signature: Michael S Cox (Sep 23, 2022 16:35 CDT)

Email: msc15@msstate.edu

Signature: William Kingery (Sep 26, 2022 07:10 CDT)

Email: wlk2@msstate.edu

Signature:

Email: rlh18@msstate.edu

Signature: Coleman Etheredge (Sep 26, 2022 07:06 CDT)

Email: cle248@msstate.edu

Signature: Barry Stewart (Sep 26, 2022 12:09 CDT)

Email: brs40@msstate.edu

PROPOSAL FOR CHANGE IN CURRICULUM
Degree: BACHELOR OF SCIENCE
Major: HORTICULTURE
Concentrations:
FLORAL MANAGEMENT
FLORICULTURE AND ORNAMENTAL HORTICULTURE
FRUIT AND VEGETABLE PRODUCTION

1. CATALOG DESCRIPTION
   No significant changes were made in the mission of the program. Minor changes to the catalog description appear below.

2. CURRICULUM OUTLINE
   Deletions in Italics
   Additions in Bold
   New course proposals designated with an asterix (*)

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Horticulture	Degree: Bachelor of Science Major: Horticulture
Plant and Soil Sciences curricula focus on the application of sciences to the integrated management of plants, soil, and climate for high-quality production of food, fiber, and ornamental plants. Central to this course of study is the dedication to conserve, maintain, and enhance our environment. An undergraduate student may major in either Agronomy (AGN) or Horticulture (HO) and specialize in various concentration areas such as Agricultural and Environmental Soil Science (AGN), Integrated Pest Management (IPM), Golf and Sports Turf Management (AGN), Integrated Crop Management (AGN), Floriculture and Ornamentals (HO), and Floral Management (HO). A grade of "C" or better is required in all required PSS courses in the student's major prior to completion of the degree. *Graduate programs (M.S. and Ph.D.) are also offered in the Department of Plant and Soil Sciences* in Agronomy, Horticulture, and Weed Science. Consult the Graduate Bulletin for additional details.	Plant and Soil Sciences curricula focus on the application of sciences to the integrated management of plants, soil, and climate for high-quality production of food, fiber, and ornamental plants. Central to this course of study is the dedication to conserve, maintain, and enhance our environment. An undergraduate student may major in either Agronomy (AGN) or Horticulture (HO) and specialize in various concentration areas such as Agricultural and Environmental Soil Science (AGN), Integrated Pest Management (IPM), Golf and Sports Turf Management (AGN), Integrated Crop Management (AGN), Floriculture and Ornamentals (HO), and Floral Management (HO). A grade of "C" or better is required in all required PSS courses in the student's major prior to completion of the degree. **The Department of Plant and Soil Sciences also offers on-campus and online M.S. and Ph.D. graduate programs** in Agronomy, Horticulture, and Weed Science. Consult the Graduate Bulletin for additional details.

CURRENT CURRICULUM OUTLINE	Req. Hours	**PROPOSED CURRICULUM OUTLINE**	Req. Hours
English		English	
EN 1103English Comp. I	3	EN 1103English Comp. I	3
or EN 1163 Accelerated Comp. I		EN 1113English Comp. II	3
EN 1113English Comp. II	3	or EN 1173 Accelerated Comp. II	
or EN 1173 Accelerated Comp. II			

Math *MA 1313 College Algebra* See concentration requirements	 *3* 3	Math See concentration requirements	3
Science See concentration requirements	6-9	Science **BIO 2113 Plant Biology** **Or BIO 1144 Biology II** **CH 1043 Survey of Chemistry I** **Or CH 1213 Chemistry I** **CH 1053 Survey of Chemistry II** **Or CH 1223 Chemistry II**	 **3** **3** **3**
Humanities See concentration requirements	6	Humanities See concentration requirements	6
Fine Arts See concentration requirements	3	Fine Arts See concentration requirements	3
Social/Behavioral Sciences AEC 2713 Intro Food & Res. Econ or EC 2113 Prin. Macroeconomics* or EC 2123 Prin. Microeconomics See concentration requirements	 3 3	Social/Behavioral Sciences AEC 2713 Intro Food & Res. Econ or EC 2113 Prin. Macroeconomics or EC 2123 Prin. Microeconomics See concentration requirements	 3 3
Major Core Courses ACC 2013 Princ. Financial Accounting EPP 2213 Intro Insects or EPP 3423 Ornamental and Turf Insects MKT 3013 Princ Marketing PSS 1313 Plant Science PSS 3511 Seminar PSS 3923 Plant Propagation	 3 3 3 3 1 3	Major Core Courses ACC 2013 Princ. Financial Accounting **AEC 1223 Computer App Ag Life Sci** **or AELC 4203 App Comp Tech AELC** **CH 1051 Experimental Chemistry** **or CH 1121 Inv. Chemistry** EPP 2213 Intro Insects Or EPP 3423 Ornamental and Turf Insects MKT 3013 Princ Marketing PSS 1313 Plant Science **PSS 3413 Floristry Internship OR** **PSS 3433 Horticulture Internship** PSS 3511 Seminar PSS 3923 Plant Propagation	 3 **3** 1 3 3 3 **3** 1 3
Writing Requirement AELC 3203 Professional Writing ANRHS	 3	Writing Requirement AELC 3203 Professional Writing ANRHS	 3
Oral Communication Requirement CO 1003 Fund Public Speaking or CO 1013 Intro Communication	 3	Oral Communication Requirement CO 1003 Fund Public Speaking or CO 1013 Intro Communication	 3
Computer Literacy Requirement AEC 1223 Computer App Ag Life Sci or AELC 4203 App Comp Tech AELC *or BIS 1012 Intro Business Info Systems* *or TKT 1273 Computer Applications*	 *2-3*		
Total hours	*57-61*	**Total hours**	**62**
* Students in Floral Management concentration may not select EC 2113.			

CONCENTRATION DESCRIPTION

Floral Management (FLMG)

Floral Management involves sourcing, purchasing, distributing, marketing, designing with, and selling floricultural products. Students enrolled in this concentration are provided with courses in design and horticulture, balanced with business and sciences. Career opportunities for graduates include retailing, wholesaling, special event designing, and display gardening. The University Florist, a professional flower shop owned and operated by the Department of Plant and Soil Sciences on the MSU Campus, provides students with work and management opportunities.

Internship Requirements (PSS 3413): FM majors must complete a 10 week, 400 clock hour work experience in a floral industry enterprise. The internship requirement may be completed any semester after successful completion of PSS 2343 Floral Design.

Additional General Education Courses	
BIO 2113 Plant Biology[1]	3
CH 1043 Survey of Chemistry I	3
Or CH 1213 Chemistry I	
CH 1051 Experimental Chemistry[1]	1
Or CH 1211 Inv in Chemistry I	
CH 1053 Survey of Chemistry II[1]	3
Or CH 1223 Chemistry II	
PSS 2343 Floral Design[1]	3
PSY 1013 General Psychology[1]	3
Math course from General Education[1]	3
Humanities – Select from General Education[1]	6

Concentration courses	
ACC 2023 Prin Managerial Accounting	3
ART 1113 Art Appreciation	3
ART 1123 Design I	3
BL 2413 Legal Environment of Business	3
EC 2113 Macroeconomics	3
FIN 3113 Financial Systems	3
HS 2603 Interior Design Fundamentals	*3*
LA 2423 Hist Landscape Architecture	*3*
PS 1113 American Government	3
PSS 2423 Plant Materials I	3
PSS 3313 Int. Plant Design & Maint.	3
PSS 3343 Wedding Floral Design	3
PSS 3413 Floristry Internship	3
PSS 3443 Permanent Floral Design	3
PSS 4023 Floral Management	3
PSS 4073 Sympathy Floral Design	3
PSS 4083 Floral Design Special Events	3
PSS 4093 Postharv Care Cut Floral Crops	3
Restricted Electives (see advisor)	6

CONCENTRATION DESCRIPTION

Floral Management (FLMG)

Floral Management involves sourcing, purchasing, distributing, marketing, designing with, and selling floricultural products. Students enrolled in this concentration are provided with courses in design and horticulture, balanced with business and sciences. Career opportunities for graduates include retailing, wholesaling, special event designing, and display gardening. The University Florist, a professional flower shop owned and operated by the Department of Plant and Soil Sciences on the MSU Campus, provides students with work and management opportunities.

Internship Requirements (PSS 3413): FM majors must complete a 10 week, 400 clock hour work experience in a floral industry enterprise. The internship requirement may be completed any semester after successful completion of PSS 2343 Floral Design.

Additional General Education Courses	
PSS 2343 Floral Design[1]	3
PSY 1013 General Psychology[1]	3
Math course from General Education[1]	3
Humanities – Select from General Education[1]	6

Concentration courses	
ACC 2023 Prin Managerial Accounting	3
ART 1113 Art Appreciation	3
ART 1123 Design I	3
BL 2413 Legal Environment of Business	3
EC 2113 Macroeconomics	3
FIN 3113 Financial Systems	3
PS 1113 American Government	3
PSS 2423 Plant Materials I	3
PSS 3313 Int. Plant Design & Maint.	3
PSS 3343 Wedding Floral Design	3
PSS 4013 Prin. Floral Design II	**3**
PSS 4023 Floral Management	3
PSS 4073 Sympathy Floral Design	3
PSS 4083 Floral Design Special Events	3
PSS 4093 Postharv Care Cut Floral Crops	3
PSS 4613 Floriculture Crop Programming	**3**
Restricted Electives (see advisor)	**12**

Restricted Electives EPP 4113 Principles of Plant Pathology PSS 3043 Fruit Science PSS 3303 Soils PSS 3473 Plant Materials II PSS 4000 Directed Individual Study *PSS 4043 International Horticulture* *PSS 4143 Advanced Fruit Science* PSS 4343 Controlled Env. Agriculture PSS 4353 Arboric. & Landscape Maint. PSS 4363 Sust. Nursery Production PSS 4403 International Horticulture PSS 4453 Vegetable Production *PSS 4503 Plant Breeding* *PSS 4613 Floriculture Crop Programming*	*(6)*	Restricted Electives EPP 4113 Principles of Plant Pathology **HS 2603 Interior Design Fundamentals** **MA 1313 College Algebra** PSS 3043 Fruit Science PSS 3303 Soils **PSS 3323 Horticultural Impacts on Society** PSS 3473 Plant Materials II **PSS 3633 Sustainable and Organic Hort.** PSS 4000 Directed Individual Study PSS 4343 Controlled Env. Agriculture PSS 4353 Arboric. & Landscape Maint. PSS 4363 Sust. Nursery Production PSS 4403 International Horticulture PSS 4453 Vegetable Production **PSS 4553 Plant Growth &Development** **PSS 4800 Undergraduate Research in PSS**	**(12)**
Total hours	121		122

CONCENTRATION DESCRIPTION **Floriculture and Ornamental Horticulture (FLOR)** Floriculture and Ornamental Horticulture offers diversified opportunities that are challenging, intellectually stimulating, and economically rewarding. Floriculture and Ornamental Horticulture is the science and art of producing, distributing, and marketing flowers, flowering and foliage plants, and landscape plants. It offers a wide variety of employment opportunities and competitive salaries. Students completing this curriculum are prepared for many different careers including greenhouse and nursery management, landscape management, public service, research, and technical product research and sales.	CONCENTRATION DESCRIPTION **Floriculture and Ornamental Horticulture (FLOR)** Floriculture and Ornamental Horticulture offers diversified opportunities that are challenging, intellectually stimulating, and economically rewarding. Floriculture and Ornamental Horticulture is the science and art of producing, distributing, and marketing flowers, flowering and foliage plants, and landscape plants. It offers a wide variety of employment opportunities and competitive salaries. Students completing this curriculum are prepared for many different careers including greenhouse and nursery management, landscape management, public service, research, and technical product research and sales.

CURRENT CURRICULUM OUTLINE	Req. Hours	**PROPOSED CURRICULUM OUTLINE**	Req. Hours
Additional General Education Courses		Additional General Education Courses	
BIO 1134 Biology I[1]	4	MA 2113 Introduction to Statistics[1]	3
BIO 2113 Plant Biology[1]	3-4	or ST 2113 Introduction to Statistics	
Or BIO 1144 Biology II		FLS 1113 Spanish I[1]	3
CH 1043 Survey of Chemistry I[1]	3	FLS 1123 Spanish II[1]	3
Or CH 1213 Chemistry I		Social Sciences select from Gen. Ed. Courses[1]	3
CH 1051 Experimental Chemistry[1]	1	PSS 2343 Floral Design[1]	3
Or CH 1121 Inv. Chemistry		or LA 1803 Landscape Arc Appreciation	
CH 1053 Survey of Chemistry II[1]	3		
Or CH1223 Chemistry II			
MA 2113 Introduction to Statistics	3		
Or ST 2113 Introduction to Statistics			
FLS 1113 Spanish I[1]	3		
FLS 1123 Spanish II[1]	3		
Social Sciences select from Gen. Ed. Courses	3		
PSS 2343 Floral Design[1]	3		

Or LA 1803 Landscape Arc Appreciation			
Concentration Courses		Concentration courses	
BIO 1134 Biology I	*4*	**AEC 3133 Intro to Agribusiness Mgt**	3
BIO 4214 General Plant Physiology	3-4	BIO 4214 General Plant Physiology	3
Or PSS 4113 Agricultural Crop Physiology		Or PSS 4113 Agricultural Crop Physiology	
CH 2501 Elem. Organic Chem. Lab	1	CH 2501 Elem. Organic Chem. Lab	1
CH 2503 Elem. Organic Chemistry	3	CH 2503 Elem. Organic Chemistry	3
EPP 4113 Principles of Plant Pathology	3	EPP 4113 Principles of Plant Pathology	3
PO 3103 Genetics	3	**PSS 4493 Plant Genetics***	3
PSS 2423 Plant Materials I	3	**Or** PO 3103 Genetics	
PSS 3301 Soils Laboratory	1	PSS 2423 Plant Materials I	3
PSS 3303 Soils	3	PSS 3301 Soils Laboratory	1
PSS 3313 Int. Plant Design & Maint.	3	PSS 3303 Soils	3
PSS 3433 Horticulture Internship	3	PSS 3313 Int. Plant Design & Maint.	3
PSS 3473 Plant Materials II	3	PSS 3473 Plant Materials II	3
PSS 4341 Controlled Environ. Ag. Lab.	1	PSS 4341 Controlled Environ. Ag. Lab.	1
PSS 4343 Controlled Environ. Ag.	3	PSS 4343 Controlled Environ. Ag.	3
PSS 4363 Sustainable Nursery Production	3	PSS 4363 Sustainable Nursery Production	3
PSS 4613 Floriculture Crop Programming	3	**PSS 4553 Plant Growth &Development**	3
Restricted Electives	18	PSS 4613 Floriculture Crop Programming	3
		Restricted Electives	18
Restricted Electives	(18)	Restricted Electives	(18)
AEC 3133 Intro to Agribusiness Mgt		BIO 3304 General Microbiology	
AEC 3413 Intro to Food Marketing		BIO 4204 Plant Anatomy	
BCH 4013 Principles of Biochemistry		BIO 4203 Tax. Of Spermatophytes	
BIO 3304 General Microbiology		EPP 4163 Plant Disease Management	
BIO 4204 Plant Anatomy		EPP 4263 Prin. Insect Pest Management	
BIO 4203 Tax. Of Spermatophytes		LA 4753 Sustainable Landscape Mgt	
BIO 4213 Plant Ecology		**MA 1313 College Algebra**	
BIO 4404 Environmental Microbiology		PSS 2113 Intr. Turfgrass Science	
EPP 4163 Plant Disease Management		PSS 2343 Floral Design	
EPP 4263 Prin. Insect Pest Management		**PSS 2543 Precision Agriculture I**	
FLS 2133 Spanish III		PSS 3043 Fruit Science	
FLS 2143 Spanish IV		PSS 3133 Intro Weed Science	
LA 2253 Plant. Design Fund. Lands Arch.		**PSS 3323 Horticultural Impacts on Society**	
LA 2433 Landscape Systems Plant Com.		PSS 3343 Wedding Floral Design	
LA 4753 Sustainable Landscape Mgt		PSS 3633 Sustainable and Organic Hort.	
MKT 3213 Retailing		PSS 4000 Directed Individual Study	
PSS 2113 Intr. Turfgrass Science		**PSS 4013 Prin. Floral Design II**	
PSS 2343 Floral Design		PSS 4023 Floral Management	
PSS 3043 Fruit Science		PSS 4073 Sympathy Floral Design	
PSS 3133 Intro Weed Science		PSS 4083 Floral Des. Special Events	
PSS 3343 Wedding Floral Design		PSS 4093 Postharvest Cut Floral Crops	
PSS 3443 Permanent Floral Design		PSS 4143 Advanced Fruit Science	
PSS 3633 Sustainable and Organic Hort.		**PSS 4153 Sust. Agroecology**	
PSS 4000 Directed Individual Study		PSS 4313 Soil Fertility and Fertilizers	
PSS 4023 Floral Management		PSS 4353 Arboric. & Landscape Maint	
PSS 4073 Sympathy Floral Design		**PSS 4383 Ag Remote Sensing I**	
PSS 4083 Floral Des. Special Events		**PSS 4393 Ag Remote Sensing II**	
PSS 4093 Postharvest Cut Floral Crops		PSS 4403 International Horticulture	
PSS 4143 Advanced Fruit Science		PSS 4453 Vegetable Production	
PSS 4313 Soil Fertility and Fertilizers		**PSS 4473 Hydroponics & Soilless Crops**	
PSS 4353 Arboric. & Landscape Maint		PSS 4503 Plant Breeding	
PSS 4403 International Horticulture		**PSS 4543 Precision Agriculture II**	

PSS 4414 Turfgrass Management PSS 4453 Vegetable Production PSS 4503 Plant Breeding *PSS 4553 Plant Growth &Development*		**PSS 4800 Undergraduate Research in PSS**	
Total Hours	122	Total Hours	122

CONCENTRATION DESCRIPTION **Fruit and Vegetable Production (FVP)** Fruit and Vegetable Production offers opportunities that are challenging, intellectually stimulating, and economically rewarding. Fruit and Vegetable Production focuses on the production, distribution, and marketing of fruits and vegetables for local consumption and commercial markets. It offers a wide variety of employment opportunities and competitive salaries. Students completing this curriculum are prepared for careers in local and commercial production of fruits and vegetables, marketing, quality control, purchasing, research, and technical product research and sales.		CONCENTRATION DESCRIPTION **Fruit and Vegetable Production (FVP)** Fruit and Vegetable Production offers opportunities that are challenging, intellectually stimulating, and economically rewarding. Fruit and Vegetable Production focuses on the production, distribution, and marketing of fruits and vegetables for local consumption and commercial markets. It offers a wide variety of employment opportunities and competitive salaries. Students completing this curriculum are prepared for careers in local and commercial production of fruits and vegetables, marketing, quality control, purchasing, research, and technical product research and sales.	
Additional General Education Courses		Additional General Education Courses	
BIO 1134 Biology I[1]	4	MA 2113 Introduction to Statistics[1]	3
BIO 2113 Plant Biology[1]	3-4	Or ST 2113 Introduction to Statistics	
Or BIO 1144 Biology II		FLS 1113 Spanish I[1]	3
CH 1043 Survey of Chemistry I[1]	3	FLS 1123 Spanish II[1]	3
Or CH 1213 Chemistry I		Social Sciences select from Gen. Ed. Courses[1]	3
CH 1051 Experimental Chemistry[1]	1	Fine Arts select from Gen. Ed. Courses[1]	3
Or CH 1121 Inv. Chemistry			
CH 1053 Survey of Chemistry II[1]	3		
Or CH1223 Chemistry II			
MA 2113 Introduction to Statistics[1]	3		
Or ST 2113 Introduction to Statistics			
FLS 1113 Spanish I[1]	3		
FLS 1123 Spanish II[1]	3		
Social Sciences select from Gen. Ed. Courses[1]	3		
Fine Arts select from Gen. Ed. Courses[1]	3		
Concentration Courses		Concentration Courses	
BIO 1134 Biology I	*4*	**AEC 3133 Intro to Agribusiness Mgt**	3
BIO 4214 General Plant Physiology	3-4	BIO 4214 General Plant Physiology	3
Or PSS 4113 Agricultural Crop Physiology		Or PSS 4113 Agricultural Crop Physiology	
CH 2501 Elem. Organic Chem. Lab	1	CH 2501 Elem. Organic Chem. Lab	1
CH 2503 Elem. Organic Chemistry	3	CH 2503 Elem. Organic Chemistry	3
EPP 4113 Principles of Plant Pathology	3	EPP 4113 Principles of Plant Pathology	3
PO 3103 Genetics	3	**PSS 4493 Plant Genetics**	3
PSS 3943 Fruit Science	3	**Or** PO 3103 Genetics	
PSS 3133 Intro Weed Science	3	PSS 3943 Fruit Science	3
PSS 3301 Soils Laboratory	1	PSS 3133 Intro Weed Science	3
PSS 3303 Soils	3	PSS 3301 Soils Laboratory	1
PSS 3433 Horticulture Internship	3	PSS 3303 Soils	3
PSS 3633 Sustainable and Organic Horticulture	3	PSS 3633 Sustainable Organic Horticulture	3
PSS 4143 Advanced Fruit Science	3	PSS 4143 Advanced Fruit Science	3
PSS 4313 Soil Fertility and Fertilizers	3	PSS 4313 Soil Fertility and Fertilizers	3

PSS 4453 Vegetable Production *12 hours Restricted Electives* *Free electives*	3 *12* *6*	PSS 4453 Vegetable Production **PSS 4473 Hydroponics & Soilless Crops** **PSS 4553 Plant Growth &Development** **Restricted Electives**	3 **3** **3** **18**
Restricted Electives *AEC 3133 Intro to Agribusiness Mgt* *AEC 3413 Intro to Food Marketing* BCH 4013 Principles of Biochemistry BIO 3304 General Microbiology BIO 4204 Plant Anatomy *BIO 4203 Tax. of Spermatophytes* *BIO 4213 Plant Ecology* *BIO 4404 Environmental Microbiology* EPP 4163 Plant Disease Management EPP 4263 Prin. Insect Pest Management FNH 4114 Analysis of Food Products FNH 4164 Quality Assurance Food Prod. FNH 4193 Social-Cultural Asp. Food *FNH 4583 Food Preservation Technol.* *MKT3213 Retailing* *PH 1113 Gen. Physics* PSS 2423 Plant Materials I PSS 3473 Plant Materials II PSS 4000 Directed Individual Study PSS 4093 Postharvest Cut Floral Crops PSS 4314 Micro and Ecology of Soil PSS 4333 Soil Conservation PSS 4341 Controlled Environ. Ag. Lab. PSS 4343 Controlled Environ. Ag. PSS 4373 Geospatial Agronomic Mgt. PSS 4403 International Horticulture PSS 4483 Intro. Remote Sensing PSS 4503 Plant Breeding *PSS 4553 Plant Growth &Development* PSS 4633 Weed Biology and Ecology PSS 4813 Herbicide Technology	*(12)*	Restricted Electives BCH 4013 Principles of Biochemistry BIO 3304 General Microbiology BIO 4204 Plant Anatomy EPP 4163 Plant Disease Management EPP 4263 Prin. Insect Pest Management FNH 4164 Quality Assurance Food Prod. FNH 4193 Social-Cultural Asp. Food FNH 4583 Food Preservation Technol. PSS 2423 Plant Materials I **PSS 2543 Precision Agriculture I** **PSS 3323 Horticultural Impacts on Society** PSS 3473 Plant Materials II PSS 4000 Directed Individual Study PSS 4093 Postharvest Cut Floral Crops **PSS 4153 Sustainable Agroecology** PSS 4314 Micro and Ecology of Soil PSS 4333 Soil Conservation PSS 4341 Controlled Environ. Ag. Lab. PSS 4343 Controlled Environ. Ag. PSS 4373 Geospatial Agronomic Mgt. **PSS 4383 Ag Remote Sensing I** **PSS 4393 Ag Remote Sensing II** PSS 4403 International Horticulture PSS 4483 Intro. Remote Sensing PSS 4503 Plant Breeding **PSS 4543 Precision Agriculture II** PSS 4633 Weed Biology and Ecology **PSS 4800 Undergraduate Research in PSS** PSS 4813 Herbicide Technology	**(18)**
Total Hours	*121*	**Total Hours**	**124**
[1] Satisfies General Education requirements.			

3. JUSTIFICATION

Horticulture graduates today have a wide range of career options available upon graduation including marketing, research, sales, and plant production. To meet the needs and interests of the students, the proposed changes in the curriculum are designed to add flexibility for the student to direct their studies to their career interests within horticulture. Additional curriculum changes are being made to clean up the curriculum by deleting courses no longer taught, moving some restricted elective or concentration courses to the major core, incorporating the new course names from recent course modifications, and incorporating new courses.

EXPECTED LEARNING OUTCOMES

Floral Management Graduates are expected to

1. demonstrate the principles involved in the handling, and marketing of floricultural and ornamental horticulture crops.
2. be able to integrate content knowledge and apply it to horticultural commodity marketing.
3. be able to create/design cost appropriate floral arrangements for every day, wedding, special events, funeral occasions.
4. be able to order, receive, and process floral product for retail and other operations.
5. identify and understand how to use a wide range of floral product.

EXPECTED LEARNING OUTCOMES

Floriculture and Ornamental Horticulture graduates are expected to

1. explain the principles involved in the development, production, harvesting, handling, and marketing of floricultural and ornamental horticulture crops;
2. be able to integrate content knowledge and apply it to horticultural crop production;
3. be able to collect and analyze horticultural crop data and interpret results;
4. be able to conduct a cost-benefit analysis for horticultural crop production;
5. be able to develop systematic strategies for horticultural crop production based on the results of analysis;
6. be able to summarize and communicate current horticultural research to diverse audiences.

EXPECTED LEARNING OUTCOMES

Fruit and Vegetable Production graduates are expected to

1. explain the principles involved in the production, harvesting, handling, and marketing of fruit and vegetable crops for local and commercial markets;
2. be able to integrate content knowledge and apply it to horticultural crop production;
3. be able to collect and analyze horticultural crop data and interpret results;
4. be able to conduct a cost-benefit analysis for horticultural crop production;
5. be able to develop systematic strategies for horticultural crop production based on the results of analysis;
6. be able to summarize and communicate current horticultural research to diverse audiences.

4. SUPPORT

No additional faculty resources will be required to implement the proposed curriculum changes. Letter of support attached.

5. PROPOSED 4 LETTER ABBREVIATION

No change.

6. EFFECTIVE DATE

Fall 2023