AGENDA

Faculty Senate Executive Committee Monday, December 3, 2007 3:30 pm 503 Hale Library

- 1. Call meeting to order
- 2. Approval of October 29, 2007 minutes
- 3. Division of Continuing Education Issues Betty Stevens, John Allard, David Stewart
 - 1. iSIS Planning
 - 2. Course and Program Development for International Distance Education
- 4. Academic Calendar 2008-2013- Attachment 4-page 41
- 5. Reports from Standing Committees and Student Senate
 - A. Academic Affairs Committee Doris Carroll
 - 1. Course and curriculum changes Pages 2- 38; includes Attachments 1 and 2
 - 2. Academic Fresh Start and Forgiveness Policies Second reading and vote Attachment 3-page 39
 - B. Faculty Affairs Committee Betsy Cauble
 - 1. Update on Graduate Student Grievance Procedure Proposed Handbook Changes
 - 2. Update on University Handbook change, Appendix G GGB Policy and Hearing Procedures
 - 3. Update on University Handbook change, Section D40 Consulting days
 - C. Faculty Senate Committee on University Planning Roger Adams
 - D. Faculty Senate Committee on Technology Michael North
 - E. Report from Student Senate Nick Piper
- 6. Announcements
 - A. Presidential announcements
 - B. Faculty Senate Leadership Council
 - C. Kansas Board of Regents
- 7. Old Business
- 8. New Business
- 9. For the Good of the University
- 10. Adjournment

ACADEMIC AFFAIRS

1. Course and Curriculum Changes

A. Undergraduate Education

1. Place on the December Faculty Senate agenda for approval the following course and curriculum changes as approved by the College of Agriculture on October 8, 2007:

COURSE CHANGES

Animal Sciences and Industry

Changes to:

ASI 395 Advanced Meat Evaluation

Add:

ASI 333 Equine Enterprise Management

Horticulture, Forestry and Recreation Resources

Changes to:

HORT 275 Concepts of Horticultural Design I

HORT 508 Landscape Maintenance

HORT 510 Horticultural Design II

HORT 515 Turf Management Basic Turfgrass Culture

HORT 517 Golf Course and Sports Turf Operations

HORT 551 Landscape Contracting and Construction The Business of Landscape Contracting

HORT 555 Landscape Irrigation: Design and Contracting The Fundamentals of Landscape Irrigation Design

HORT 582 Foundations of Horticultural Pest Management

Add:

HORT 325 Introduction to Organic Farming

HORT 360 Public Horticulture

HORT 516 Intensive Culture of Golf and Sports Turf

HORT 552 Horticultural Landscape Construction

HORT 583 Survey of Horticultural Ornamental and Food Crop Pests

HORT 587 Turfgrass Diseases and Their Management

HORT 588 Turfgrass Weeds and Their Management

HORT 589 Turfgrass Insects and Their Management

Drop:

HORT 519 Turfgrass Pest Management

Plant Pathology

Changes to:

PLPTH 575 Special Topics in Plant Pathology

Add:

PLPTH 576 Special Topics in Plant Pathology

PLPTH 583 Survey of Horticultural Ornamental and Food Crop Pests

PLPTH 587 Turfgrass Diseases and Their Management

CURRICULUM CHANGES

(Attachment 1)

2. Place on the December Faculty Senate agenda for approval the following course and curriculum changes as approved by the College of Human Ecology on October 8, 2007:

COURSE CHANGES

School of Family Studies and Human Services

Changes to:

FSHS 585 Professional Seminar in Family Life Education FSHS

Department of Hotel, Restaurant, Institution Management and Dietetics

Changes to:

HRIMD 120 Introduction to Survey of the Hospitality Industry

HRIMD 221 Topics in Hospitality

HRIMD 463 Convention Services and Event Management

Add:

HRIMD 443 Food Writing

CURRICULUM CHANGES

Department of Apparel, Textiles, and Interior Design

• Changes to the Bachelor of Science in Apparel and Textiles: Add STAT 325 as a course option under General studies courses. (See page 3 of white sheets for rationale)

Department of Hotel, Restaurant, Institution Management and Dietetics

- Changes to the Bachelor of Science in Hotel and Restaurant Management: Replace ENGL 516 with ENGL 517 under general requirements. Under Professional Studies, HRIMD 120 has increased one credit hour thus increasing Professional Studies from 37 to 38 credit hours. Under Professional Electives, delete HRIMD 425 and HRIMD 665, and increase the credit hours in HRIMD 463 from 2 to 3 thus changing professional electives from 15 hours to 14 hours. Total credit hours for graduation have not changed. (See pages 5-7 of white sheets for more detail).
- 3. Place on the December Faculty Senate agenda for approval the following course and curriculum changes as approved by the College of Technology & Aviation on October 16, 2007:

COURSE CHANGES

Changes to:

AVM 315 Advanced Avionics

Add:

PPIL 251 Private Pilot Helicopter Ground School

PPIL 252 Private Pilot Helicopter Flight Lab

PPIL 281 Instrument Helicopter Pilot Ground School

PPIL 282 Instrument Helicopter Pilot Flight Lab

PPIL 291 Commercial Pilot Helicopter Ground School

PPIL 292 Commercial Pilot Helicopter Flight Lab

PPIL 351 Flight Instructor Helicopter Ground School

PPIL 352 Flight Instructor Helicopter Flight Lab

AVM 242 Navigational Aids and Communication Systems for Avionics

COT 020 University Honors Program

COT 189 Introduction to University Honors Program

Drop:

PPIL 310 Aircraft Certification

CURRICULUM CHANGES

- Changes to the Associate of Technology in Engineering Technology, Mechanical Engineering Technology Option: Replace CMST 101 with CMST 110. Delete ETA 020. Total hours required for graduation have changed from 67 to 68.
- Changes to the Associate of Technology in Engineering Technology, Electronic and Computer Engineering Technology Option: Replace CMST 101 with CMST 110. Delete ETA 020. Total hours required for graduation have changed from 67 to 68.
- 4. Place on the December Faculty Senate agenda for approval the following course and curriculum changes as approved by the College of Education on October 23, 2007:

CURRICULUM CHANGES

Department of Secondary Education

Degree Name Change:

FROM: Bachelor of Science

TO: Bachelor of Science in Education

Department of Elementary Education

Degree Name Change:

From: Bachelor of Science in Elementary Education

To: Bachelor of Science in Education

Rationale: The College of Education would like to unify the degree name for both Elementary and Secondary to better describe their program.

Effective Date: Fall 2008

B. Graduate Education – Place on the December Faculty Senate agenda approval of the following curriculum change approved by the Graduate Council on September 4, 2007:

New Certificate Program

Interdisciplinary Graduate Certificate in Stem Cell Biotechnology (Attachment 2)

C. General Education

1. The following courses have been approved by the UGE Council for continued UGE status: (Informational item only)

ASI 303 History & Attitudes of Animal Use

ASI 330 Horse as a Window to the World

ART 100 Two Dimensional Design

ECON 110 Principles of Macroeconomics

ECON 536 Comparative Economics

ENGL 220 Fiction into Film

ENGL 231 Medieval and Renaissance

ENGL 234 Modern English

ENGL 440 Themes in Literature

FREN 514 Contemporary France

FREN 520 Introduction to French Literature I

FSHS 670 Working With Parents

GEOG 221 Environmental Geography I

GEOG 500 Geography of the United States

GEOL 102 Earth Through Time

GEOL 125 Natural Disasters

MUSIC 100 Music Fundamentals

MUSIC 245 Introduction to American Music

PHYS 451 Principles of Contemporary Physics

POLSC 301 Introduction to Political Thought

SOCIO 363 Global Problems

SOCWK 510 Social Welfare as a Social Institution

SPCH 311 Business and Professional Speaking

SPCH 526 Persuasion

D. Academic Fresh Start and Forgiveness Policy – Attachment 3, page 39

Place the Academic Fresh Start and Forgiveness Policy on the December Faculty Senate agenda for a second reading and vote.

ATTACHMENT 1

College of Agriculture Curriculum Proposals – October 8, 2007

Animal Sciences and Industry

Business Option

FROM: BUSINESS & ECONOMICS

(Required)

ACCTG 231 Accounting Business Operations ACCTG 241 Accounting Investments & Finance

Select 6 Courses

Agricultural Economics - Any course numbered 202 or higher except 490

Accounting – Any course Family Studies – FSHS 105

Finance - Any course

Management - Any course

Marketing - Any course

TO: BUSINESS & ECONOMICS

(Required)

ACCTG 231 Accounting Business Operations ACCTG 241 Accounting Investments & Finance

Select 6 Courses

Agricultural Economics - Any course numbered 202 or higher except 490

Accounting - Any course

Economics - Any course 500-level and above

Family Studies - FSHS 105

Finance - Any course

Management - Any course

Marketing - Any course

RATIONALE: 500-level economics courses are worthwhile choices for the "Business and Economics" section.

IMPACT: We do not anticipate a significant impact on the Economics Department.

EFFECTIVE DATE: Fall 2008

Science/Pre-Vet Option

FROM: Physics/Math/Statistics Requirement

(Minimum 6 hours) Select From: PHYS 113, 114

MATH 205, 210, 211, 220, 221, 222

STAT 325, 340, 350, 351

TO: Physics/Math/Statistics Requirement

(Minimum 6 hours) Select From: PHYS 113, 114

MATH <u>100</u>, 205, 210, 211, 220, 221, 222

STAT 325, 340, 350, 351

RATIONALE: Science/Pre-Vet Option students who choose to complete the Science/Pre-Vet option, but are not planning on going to Vet School would be allowed to use *MATH 100*, *College Algebra*, to meet the 6 hours of math requirements of the option. All of our other options require *MATH 100*, but also require only 3 additional hours of Math/Statistics/Computers.

IMPACT: No impact on other departments

EFFECTIVE DATE: Fall 2008

Bioscience/Biotechnology, Business, Communications, Production/Management, and Science/Pre-Vet Options

FROM: Currently we allow students majoring in Animal Sciences and Industry within the

Bioscience/Biotechnology, Business, Communications, Production/Management, and

Science/Pre-Vet Options to have the option of taking FDSCI 302, Introduction to Food Science,

as one of their Ag elective courses outside of Animal Science.

TO: We are proposing that the same set of students have the option of also taking *FDSCI 305*,

Fundamentals of Food Processing, or FDSCI 690, Principles of HACCP as one of their Ag

elective courses.

RATIONALE: Courses in this area are intended to provide breadth to a student's curriculum. We currently allow only *FDSCI 302* to meet this requirement. *FDSCI 305* and *FDSCI 690* would be equally beneficial to our students.

IMPACT: We anticipate this will have little impact on the Food Science and Industry program.

EFFECTIVE DATE: Fall 2008

Production/Management Option

FROM: **BUSINESS & ECONOMICS**

(Required)

ACCTG 231 Accounting Business Operations
ACCTG 241 Accounting Investments & Finance

OR

AGEC 308 Farm and Ranch Management

Select 4 Courses

Agricultural Economics - Any course numbered 202 or higher except 490

Accounting – Any course

Family Studies - FSHS 105

Finance - Any course

Management - Any course

Marketing - Any course

ANIMAL SCIENCE

(Required)

ASI 105	Animal Science Lab	1
ASI 106	Dairy/Poultry Lab	1
ASI 318	Fundamentals of Nutrition	3
ASI 320	Principles of Feeding	3
ASI 400	Farm Animal Repro	4
ASI 510	Animal Breeding Principles	3
ASI 580	Senior Seminar 1	
Select 1	Course	
ASI 350	Meat Science	3
ASI 361	Meat Animal Processing	2
ASI 601	Phys of Lactation	3
Select 1	l Course	
ASI 315	Livestock & Meat Eval 3	
ASI 405	Fund Milk Processing 3	
ASI 640	Poultry Product Tech	3
FDSCI 607	Food Microbiology	4
Select 3	3 Courses	
ASI 515	Beef Science	3
ASI 521	Horse Science	3
ASI 524	Sheep Science 3	
ASI 535	Swine Science 3	
ASI 621	Dairy Science	3
ASI 645	Poultry Management	3
ASI 655	Behavior of Domestic Anmls	3

TO: BUSINESS & ECONOMICS

(Required)

ACCTG 231 Accounting Business Operations
ACCTG 241 Accounting Investments & Finance
OP

AGEC 308 Farm and Ranch Management

Select 4 Courses

Agricultural Economics - Any course numbered 202 or higher except 490

Accounting - Any course

Economics - Any course 500-level and above

Family Studies - FSHS 105

Finance – Any course Management – Any course Marketing – Any course

ANIMAL	SCIENCE
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(Requi	red)		
ASI 105	Animal Science Lab	1	
ASI 106	Dairy/Poultry Lab	1	
ASI 318	Fundamentals of Nutrition	3	
ASI 320	Principles of Feeding	3	
ASI 400	Farm Animal Repro	4	
ASI 510	Animal Breeding Principles	3	
ASI 580	Senior Seminar 1		
Select 1	Course		
ASI 350	Meat Science	3	
ASI 361	Meat Animal Processing	2	
ASI 601	Phys of Lactation	3	
Select 1	1 Course		
ASI 315	Livestock & Meat Eval 3		
ASI 405	Fund Milk Processing 3		
ASI 640	Poultry Product Tech	3	
FDSCI 607	Food Microbiology	4	
Select 3	3 Courses		
ASI 515	Beef Science	3	
ASI 521	Horse Science	3	
ASI 524	Sheep Science 3		
ASI 535	Swine Science 3		
ASI 621	Dairy Science	3	
ASI 645	Poultry Management	3	
Only one of th	e courses below can be used	to fulf	ill the above requirement
<u>ASI 520</u>	Comp/Lab Anml Mngt 3		
<u>ASI 655</u>	Behavior of Domestic Anm	<u>ls</u> <u>3</u>	

RATIONALE: Several of our students change options from the Science/Pre-Vet option to the Production/Management option after their first three years. Most of these students have taken ASI 520, Companion and Lab Animal Management. They would like to use it in this option. This change would require these students to take at least two of our production courses. 500-level economics courses are worthwhile choices for the "Business and Economics" section

IMPACT: We do not anticipate a significant impact on the Economics Department.

EFFECTIVE DATE: Fall 2008

Grain Science and Industry

Baking Science and Management - Cereal Chemistry Option

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FROM:	TO:
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Required courses: Required courses:

CHM 210 Chemistry I 4 hrs $\frac{1}{1}$ CHM 210 Chemistry I 4 hrs $\frac{1}{1}$ and $\frac{1}{1}$ CHM 230 Chemistry II 4 hrs $\frac{1}{1}$ CHM 230 Chemistry II 4 hrs

Of			
CHEM 220 Chem Prin I	5 hrs		
and			
CHEM 250 Chem Prin II	5 hrs		
GRSC 101 Intro to GRSC	3 hrs	GRSC 150 Prin. of Milling	3 hrs
STAT 320 Elem of Statistics	3 hrs	STAT 325 Statistics	3 hrs
Of			
STAT 340 Biometrics I	3 hrs		
BIOCH 521 General Biochemistry	3 hrs	BIOCH 521 General Biochemistry	3 hrs
Of		<u>and</u>	
BIOCH 265 Biochemistry	5 hrs	BIOCH 522 General Biochem Lab	2 hrs
FDSCI 501 Food Chemistry	3 hrs	FDSCI 501 Food Chemistry	3 hrs
Of			
FDSCI 305 Fund Food Processing	3 hrs		
ATM 540 Food Engin Tech	3 hrs	GRSC 540 Eng. Apps in Food	<u>3 hrs</u>
		GRSC 541 Eng. Apps in Food Lab	<u>1 hrs</u>
ASI 318 Fund of Nutrition	3 hrs		
or			
HN 132 Basic Nutrition	3 hrs	HN 132 Basic Nutrition	3 hrs
Of			
HN 400 Human Nutrition	3 hrs		
GRSC 630 Mgmt. Apps	3 hrs		
		Add new category:	
		Specialization Electives (select 4 hours)	
		GRSC 610 Elec./Grain Proc	<u>3 hrs</u>
		GRSC 500 Milling Science I	<u>4 hrs</u>
		GRSC 745 Fund. Bioprocessing	<u>3 hrs</u>
		GRSC 720 Extrusion Proc. Fd. & Fd.	4 hrs
		EDLST 212 Intro to Lead concepts	3 hrs
		FDSCI 690 HACCP	2 hrs
		GRSC 712 Vib. Spect. Anal	1 hrs
		GRSC 713 Cont. Chromotographic Anal.	1 hrs
		TING TO COME CONTROL OF THE PARTY OF TH	1 1115
Free Electives	8 hrs	Free Electives	6 hrs
Total hours required	128 hrs	Total hours required	128 hrs
*		*	

RATIONALE: The above changes are being made to allow students in the Cereal Chemistry option as much flexibility as possible to prepare for careers in the baking of food industries while still gaining a foundation of the newer technologies prevalent in the industry.

CHM 220/250 are being dropped as an alternates and CHM 210/230 will be used for this option.

GRSC 150 will replace GRSC 101 for this option. GRSC150 is more appropriate for students in this option.

GRSC 630 Management Applications will be dropped to make room for addition hours of specialization electives.

ATM 540 is no longer offered and will be replaced with GRSC540. GRSC 541 will be added.

BIOCH 265 is being dropped as an alternate and BIOCH 521 and BIOCH 522 will be required for this option.

ASI 318 and HN 132 are being dropped as alternates and HN400 will be required for this option.

For Cereal Chemistry majors the suggested and Specialization electives are more clearly defined and their scope has been broadened to introduce students to additional, most current topics in the Grain industry.

IMPACT: No major impact outside of department.

EFFECTIVE DATE: Fall 2008

Baking Science and Management - Production Management Option

<u>3 hrs</u>
or
O1
0.1
<u>2 hrs</u>
3 hrs
4 hrs
1 1115
4 hrs
3 hrs
0 1110
<u>3 hrs</u>

FDSCI 501 Food Chemistry	3 hrs	FDSCI 501 Food Chemistry	3 hrs
Of The Line Control of the Control o	2.1		
FDSCI 305 Fund Food Processing	3 hrs	CDSC 540 For Annual Front	2 1
ATM 540 Food Engin Tech	3 hrs	GRSC 540 Eng. Apps in Food	3 hrs
		GRSC 541 Eng. Apps in Food Lab	<u>1 hrs</u>
Select 9 hours from the following:		Business Electives (select 9 hours)	
ACCTG 241 Acctg Investment Finance	3 hrs	ACCTG 241 Acctg Investment Finance 3 hrs	
ACCTG 331 Acctg Processes and Controls	3 hrs	ACCTG 331 Acctg Processes and Controls	3 hrs
ECON 530 Money and Banking	3 hrs	AGEC 500 Production Economics	<u>3 hrs</u>
		AGEC 515 Food & Agri. Bus. Mktg.	<u>3 hrs</u>
FINAN 450 Principles of Finance	3 hrs	FINAN 450 Principles of Finance	3 hrs
FINAN 470 Fin Analysis and Valuation 3 hr	'S		
IMSE 501 Industrial Managment	3 hrs	IMSE 501 Industrial Managment	3 hrs
MANGT 300 Intro to TQM	3 hrs	MANGT 300 Intro to TQM	3 hrs
MANGT 530 Industrial & Labor Relations	3 hrs	MANGT 530 Industrial & Labor Relations	3 hrs
MANGT 531 Pers. & Human Res. Mgmt.	3 hrs		
Or			
ECON 523 Human Resource Economics	3 hrs		
MKTG 400 Marketing	3 hrs	MKTG 400 Marketing	3 hrs
MKTG 542 Prof Selling and Sales Mangt	3 hrs	MKTG 542 Prof Selling and Sales Mangt	3 hrs
		Add new category:	
		Specialization Electives (select 3 hours)	
		GRSC 610 Elec./Grain Proc	<u>3 hrs</u>
		GRSC 500 Milling Science I	<u>4 hrs</u>
		GRSC 745 Fund. Bioprocessing	<u>3 hrs</u>
		GRSC 720 Extrusion Proc. Fd. & Fd.	<u>4 hrs</u>
		EDLST 212 Intro to Lead concepts	<u>3 hrs</u>
		FDSCI 690 HACCP	<u>2 hrs</u>
		GRSC 712 Vib. Spect. Anal	<u>1 hrs</u>
		GRSC 713 Cont. Chromotographic Anal.	<u>1 hrs</u>
Free Electives	9 hrs	Free Electives	<u>8 hrs</u>
Total hours required	128 hrs	Total hours required	128 hrs

RATIONALE: The above changes are being made to allow students as much flexibility as possible while still integrating courses covering the newest technologies in the food industry. Total number of hours required for graduation has not changed; however 3 hours of specialization electives have been added and total hours of free electives has been reduced from 25 to 17.

GRSC 150, Principles of Milling will provide production managers and baking professionals a more through understanding of the flour and the milling process.

CHM 350 and BIOCH 521 are being dropped as an alternates and BIOCH 265 will be required for this option.

ME 212 will be replaced with GRSC 110, Flow Sheets. GRSC 110 will be more applicable for later GRSC senior level courses and for use in the bakery production layout and design areas.

MATH 210 and alternate MATH 220 will be replaced with MATH 205 General Calculus and Linear Algebra. MATH 205 uses an algebra approach more appropriate for students in this option.

ATM 540 is no longer offered and will be replaced with GRSC540. GRSC 541 will be added.

EDLST 212 Introduction to Leadership Concepts will be added as a Specialization elective choice in response to our industry's repeated requests that BSM students would benefit from additional leadership education.

For all BSM majors the suggested Specialization Electives are more clearly defined and their scope has been broadened to introduce students to additional, most current topics in the Grain industry.

IMPACT: Letters have been written to the departments of Mechanical Engineering and Mathematics advising them of the courses being dropped and added.

EFFECTIVE DATE: Fall 2008

Feed Science and Management

FROM:	TO:

Required courses: Required courses:

AGEC 220 Grain Livestock Mktg Systems	3 hrs		
CIS 101-104 (or equivalent PC Course)	3 hrs		
MATH 100 College Algebra	3 hrs		
MATH 150 Trigonometry	3 hrs		
MATH 205 Gen. Calc and Lin. Alg.	3 hrs	MATH 205 Gen. Calc and Lin. Alg.	3 hrs
Specialization Electives	8 hrs	Specialization Electives Add to list: GRSC 745 Fund Bioprocessing	18 hrs 3 hrs
		1100 to 1100 Ofto C 10 1 una Biopiovassing	
Total hours required	126 hrs	Total hours required	124 hrs

RATIONALE:

The above changes are being made to allow students as much flexibility as possible in the program to prepare for careers in the feed and allied industries, but also having the background for careers in plant management and operations in the biofuels and related industries. Students will still be able to complete the Pre-Vet Professional Requirements to apply for veterinary medicine if they desire.

Many of the students entering the program have already completed enough math to begin with MATH 205 which is a higher level course that remains in the degree program. Additionally, most students come into the program with the necessary computer skills and do not need a PC course.

Currently all students in the program are required to take both AGEC 220 and AGEC 420 which have some similar areas of content. Only one of these classes is needed for the Feed Science students.

The new GRSC 745 course will allow our students the opportunity to add knowledge and skills beneficial to understanding the production of biofuels and their related co-products.

IMPACT: Letters have been written to the affected departments outside of Grain Science advising them of

the courses being dropped and added.

EFFECTIVE DATE: Fall 2008

Milling Science and Management - Management Option

FROM:		TO:	
Required courses:		Required courses:	
MATH 220 And Comm. R. Col. I	4.1	MATH 205 Con Cale and Lin Ale	2 1
MATH 220 Anal. Geom. & Calc. I	——4 hrs ——5 hrs	MATH 205 Gen. Calc. and Lin. Alg.	3 hrs
BIOCH 265 Intro to Organic Biochemistry	3 nrs	CHM 350 Gen. Organic Chemistry	<u>3 hrs</u>
		CHM 351 Gen. Organic Chemistry Lab 2 hrs	
		GRSC 731 Milling Science II Lab 2 hrs	2 hma
CDCII 211 Due & Duef Careline	2 1	GRSC 610 Elec/Grain Proc. Ind.	<u>3 hrs</u>
SPCH 311 Bus & Prof. Speaking	3 hrs		
Select 9 hours from the following:		Specialization Electives (select 11 hours)	
ACCTG 331 Acttg Proc. & Cont.	4 hrs	ACCTG 331 Acttg Proc. & Cont.	4 hrs
AGEC 513 Ag Finance	3 hrs	AGEC 513 Ag Finance 3 hrs	
AGEC 515 Food & Agri. Bus. Mktg.	3 hrs	AGEC 515 Food & Agri. Bus. Mktg. 3 hrs	
AGEC 632 Agri. Bus. Logistics	3 hrs	AGEC 632 Agri. Bus. Logistics 3 hrs	
GENAG 390 Ag Employment	1 hrs	-	
ENGL 516 Writ. Comm. For the Sciences	3 hrs	ENGL 516 Writ. Comm. For the Sciences	3 hrs
MANGT 390 Bus. Law I	3 hrs	MANGT 390 Bus. Law I	3 hrs
MANGT 420 Mgmt. Conc.	3 hrs	MANGT 420 Mgmt. Conc.	3 hrs
MANGT 530 Ind. Labor Relations	3 hrs	MANGT 530 Ind. Labor Relations	3 hrs
MANGT 531 Pers. & Human Res. Mgmt.	3 hrs	MANGT 531 Pers. & Human Res. Mgmt.	3 hrs
MANGT 630 Labor Relations Law	3 hrs	SPCH 311 Bus & Prof. Speaking	<u>3 hrs</u>
		GRSC 720 Extrusion Proc. in the Fd & Fd.	<u>4 hrs</u>
		GRSC 745 Fund. of Bioprocessing	<u>3 hrs</u>
		GRSC 712 Vibrational Spect. Analysis 1 hrs	
		GRSC 713 Cont. Chromotographic Anal.	<u>1 hrs</u>
Free Electives	6 hrs	Free Electives	3 hrs
Total hours required	129 hrs	Total hours required	<u>128</u> hrs

RATIONALE: MATH 220, will be replaced with MATH 205, General Calculus and Linear Algebra. MATH 205 has an algebra approach more appropriate for students in this option.

Replace BIOCH 265 with CHM 350 and CHM 351. This will upgrade the level of organic chemistry to better prepare students for chemistry related functions in the milling process.

GRSC 731 Milling Science II Lab (2) will be required for all milling science graduates. It will allow students to apply principles taught in GRSC 730 to increase technical understanding and meet expectations of industry.

Require all milling science graduates take GRSC 610 Elec/Grain Proc. Ind. Understanding of electrical principles and management is important in both options to safely manage and direct an electrically powered operation system.

Create new common specialization electives category for all options, including the previous elective choices for the management option plus selected grain science courses. With addition of GRSC 720 Extrusion and GRSC 745 Fundamentals of Bioprocessing, these changes strengthen the MSM degree program.

IMPACT: Letters have been written to the affected departments outside of Grain Science advising them of

the courses being dropped and added.

EFFECTIVE DATE: Fall 2008

Milling Science and Management - Operations Option

FROM: TO:

Required courses: Required courses:

CE 231 Statics A 3 hrs
ENVD 205 Graphics I 2 hrs
ATM 540 Food Engin Tech 3 hrs

BIOCH 265 Intro to Organic Biochemistry 5 hrs

GRSC 540 Eng. Apps in Food	3 hrs
GRSC 541 Eng. Apps in Food Lab	1 hrs
CHM 350 Gen. Organic Chemistry	3 hrs
CHM 351 Gen. Organic Chemistry Lab	2 hrs
GRSC 625 Flour and Dough Testing	3 hrs

Add new category:

Specialization Electives (select 7 hours)	
ACCTG 331 Acttg Proc. & Cont.	4 hrs
AGEC 513 Ag Finance	3 hrs
AGEC 515 Food & Agri. Bus. Mktg.	3 hrs
AGEC 632 Agri. Bus. Logistics	3 hrs
ENGL 516 Writ. Comm. For the Sciences	3 hrs
MANGT 390 Bus. Law I	3 hrs
MANGT 420 Mgmt. Conc.	3 hrs
MANGT 530 Ind. Labor Relations	3 hrs
MANGT 531 Pers. & Human Res. Mgmt.	3 hrs
SPCH 311 Bus & Prof. Speaking	3 hrs
GRSC 720 Extrusion Proc. in the Fd & Fd.	4 hrs
GRSC 745 Fund. of Bioprocessing	3 hrs
GRSC 712 Vibrational Spect. Analysis	1 hrs
GRSC 713 Cont. Chromotographic Anal	1 hrs

Free Electives 9 hrs Free Electives 3 hrs
Total hours required 129 hrs Total hours required 128 hrs

RATIONALE: CNS 231 Statics A and ENVD 205 Graphics I are no longer considered as essential in the skill set for the operations students in the milling science program.

ATM 540 is no longer offered and will be replaced with GRSC540. GRSC 541 will be added. Replace BIOCH 265 with CHM 350 and CHM 351. This will upgrade the level of organic chemistry to better prepare students for chemistry related functions in the milling process.

Create new common specialization electives category for all options, including the previous elective choices for the management option plus selected grain science courses. With addition of GRSC 720 Extrusion and GRSC 745 Fundamentals of Bioprocessing, these changes strengthen the MSM degree program.

IMPACT: Letters have been written to the affected departments outside of Grain Science advising them of the courses being dropped and added.

EFFECTIVE DATE: Fall 2008

Milling Science and Management - Chemistry Option

FROM: TO:

Required courses: Required courses:

CHM 3/1 Chemical Analysis	4 hrs	CHM 350 Gen. Organic Chemistry	<u> 3 nrs</u>
CHM 551 Organic Chem II Lab	2 hrs	CHM 351 Gen. Organic Chemistry Lab	<u>2 hrs</u>
		GRSC 610 Elec/Grain Proc. Ind.	<u>3 hrs</u>

 GRSC 610 Elec/Grain Proc. Ind.
 3 hrs

 GRSC 630 Mgmt. App. Gr. Proc. Ind.
 3 hrs

 GRSC 730 Milling Science II
 2 hrs

 GRSC 731 Milling Science II Lab
 2 hrs

Add new category:

Specialization Electives (select 3 hours)
ACCTG 331 Acttg Proc. & Cont.
AGEC 513 Ag Finance

AGEC 513 Ag Finance 3 hrs
AGEC 515 Food & Agri. Bus. Mktg. 3 hrs
AGEC 632 Agri. Bus. Logistics 3 hrs
ENGL 516 Writ. Comm. For the Sciences
MANGT 390 Bus. Law I 3 hrs

4 hrs

MANGT 420 Mgmt. Conc. 3 hrs MANGT 530 Ind. Labor Relations 3 hrs MANGT 531 Pers. & Human Res. Mgmt. 3 hrs SPCH 311 Bus & Prof. Speaking 3 hrs

GRSC 720 Extrusion Proc. in the Fd & Fd. 4 hrs GRSC 745 Fund. of Bioprocessing 3 hrs GRSC 712 Vibrational Spect. Analysis 1 hrs

GRSC 713 Cont. Chromotographic Anal 1 hrs

RATIONALE: Chemistry requirements are changed to be consistent with the other two options in the major. All

students will now take CHM 350 and 351 as part of the core requirements.

Create new common specialization electives category for all options, including the previous elective choices for the management option plus selected grain science courses. With addition of GRSC 720 Extrusion and GRSC 745 Fundamentals of Bioprocessing, these changes strengthen

the MSM degree program.

IMPACT: Letters have been written to the affected departments outside of Grain Science advising them of

the courses being dropped and added.

EFFECTIVE DATE: Fall 2008

Horticulture, Forestry and Recreation Resources

FROM: Horticulture Major with Options in:

Fruit/Vegetable Production
Greenhouse Management
Nursery Management
Landscape Design

Landscape and Turf-Management

Horticultural Therapy Golf Course Management Horticulture Science TO: Horticulture Major with Options in: Fruit/Vegetable Production
Greenhouse and Nursery Management

Landscape Design
Landscape Management
Horticultural Therapy
Golf Course Management
Horticultural Science
Sports Turf Management
Public Horticulture

RATIONALE: Option name changes more accurately reflect the curriculum. Combining the nursery management and greenhouse management options recognizes the considerable overlap that currently exists and recognizes the fact we can serve our students better within the context of one specialization. Renaming the landscape and turf management option reflects associated changes in the curriculum which will increase focus on landscaping, and the development of the new option in sports turf management with greater focus on turf management. Two new options in sports turf management and public horticulture reflect both changing demands of the horticultural industry for graduates and changing interests of students. Additional more specific rationale statements follow the detailed curriculum changes outlined on the following pages.

IMPACT: All impacted units have been contacted.

EFFECTIVE DATE: Fall 2008

CURRENT

Horticulture Major Specializations in fruit/vegetable production, greenhouse management, nursery management, landscape design, and landscape and turf management

Quantitative sciences16-18CHM 210 ChemistryI 4Organic chemistry elective3 5MATH 100 College Algebra3Math/physics/eomp science elective3Statistics elective3

Horticulture re	equirement	14-18
HORT 350	Plant Propagation	3
HORT 520	Fruit Production	3
Or		
HORT 560	Vegetable Crop Production	n 3
HORT 190	Pre-Internship in Horticul	ture 1
HORT 590	Horticulture Internship	2 or 5
Pest Manageme	ent elective	2-3
Environmental	science elective	3

Fruit/vegetable specialization.....27

PROPOSED

Horticulture Major

Specializations in fruit/vegetable production, greenhouse and nursery management (combined with new name), landscape design, and landscape management (new name)

Quantitative s	sciences	<u>15</u>
CHM 110	General Chemistry	<u>3</u>
CHM 111	General Chemistry Lab	<u>3</u> <u>1</u>
BIOCH 265	Intro to Organic Chem & Bio	chm
	College Algebra	3
Math/physics	elective	3
Statistics elect	ive	
Horticulture	requirement <u>12</u> -	-15
HORT 350	Plant Propagation	3
HORT 520	Fruit Production	3
Or		
HORT 560	Vegetable Crop Prod	3
HORT 190	Pre-Internship in Horticulture	1
HORT 590	Horticulture Internship 2 c	or 5
HORT 599	The Horticultural Professiona	10
Environmental	science elective	3
Fruit/vegetabl	e specialization	<u> 28</u>

AGRON 330 W	/eed Science	3	AGRON 330	Weed Science	3
ENTOM 612 In	sect Pest Diagnosis	_2	HORT 325	Intro to Organic Farming	<u>2</u>
Or					
ENTOM 620 In	secticides: Properties & Laws	_2			
HORT 376	Herbaceous Ornamental Plant	s 3	HORT 376	Herbaceous Ornamental Plants	s 3
HORT 560	Vegetable Crop Production	3	HORT 560	Vegetable Crop Prod	3
HORT 570	Greenhouse Operations Mgmt	: 3	HORT 570	Greenhouse Operations Mgmt	3
HORT 575	Nursery/Garden Cntr. Operati		HORT 582	Foundations of Hort Pest Mgt	
	•		HORT 583	Survey of Horticultural Ornan	
			HORT 600	Herbaceous Landscape Plant F	Prod
Specialization e	electives from list below (10 cr))	Specialization 6	electives from list below (10 cr)	
AGRON 375	Soil Fertility	3	AGRON 375	Soil Fertility	3
HORT 210	Concepts of Floral Design	3	HORT 210	Concepts of Floral Design	3
HORT 275	Concepts of Horticulture Desi	gn	HORT 275	Horticultural Design I	3
HORT 374	Woody Plant Materials I	3	HORT 374	Woody Plant Materials I	3
HORT 375	Woody Plant Materials II	_3		OR	
	•		HORT 374	Woody Plant Materials II	3
HORT 508	Landscape Maintenance	3	HORT 508	Landscape Maintenance	2
HORT 515	Turf Management	3	HORT 515	Landscape Maintenance <u>Basic Turfgrass Culture</u> <u>Landscape Irrigation Systems</u>	$\overline{2}$
	•		HORT 550	Landscape Irrigation Systems	3
HORT 585	Arboriculture	3	HORT 575	Nursery/Garden Cntr. Operations	3
HORT 706	Turfgrass Science	_3	HORT 585	Arboriculture	3
HORT 775	Plant Nutrition Mgmt.	_3	HORT 625	Floral Crops Prod & Handling	2
				-	
Free Electives	4-	12	Free Electives	<u>6-</u>	<u>11</u>
Free Electives	4-	12	Free Electives	<u>6-</u>	<u>11</u>
				<u>6-</u> ed Nursery Management specia	
Greenhouse ma	4	29		d Nursery Management specia	ılization
Greenhouse ma	nagement specialization 28-	29 s 3	Greenhouse an		ılization
Greenhouse ma HORT 376 HORT 377	nagement specialization 28- Herbaceous Ornamental Plant Plants in the Inter. Environme	29 s 3 ent —	Greenhouse and HORT 570 HORT 575	d Nursery Management special Greenhouse Operations Mgmt Nursery/Garden Cntr Ops	<u>3</u> <u>3</u>
Greenhouse ma HORT 376 HORT 377 HORT 570	nagement specialization 28 Herbaceous Ornamental Plant	29 s 3 ent —	Greenhouse an HORT 570	d Nursery Management special Greenhouse Operations Mgmt	<u>alization</u> <u>3</u> <u>3</u> <u>1</u>
Greenhouse ma HORT 376 HORT 377 HORT 570 HORT 575	Herbaceous Ornamental Plant Plants in the Inter. Environmental Operations Mgmt Nursery/Garden Cntr. Operations	29 s 3 ent — : 3 ons —	Greenhouse an HORT 570 HORT 575 HORT 582	d Nursery Management special Greenhouse Operations Mgmt Nursery/Garden Cntr Ops Foundations of Hort Pest Mgt Survey of Horticultural Ornam	<u>alization</u> <u>3</u> <u>3</u> <u>1</u>
Greenhouse ma HORT 376 HORT 377 HORT 570 HORT 575 HORT 625	Herbaceous Ornamental Plant Plants in the Inter. Environme Greenhouse Operations Mgmt Nursery/Garden Cntr. Operati Floral Crops Prod & Handling	29 s 3 ent — : 3 ons —	Greenhouse an HORT 570 HORT 575 HORT 582	d Nursery Management special Greenhouse Operations Mgmt Nursery/Garden Cntr Ops Foundations of Hort Pest Mgt	1
Greenhouse ma HORT 376 HORT 377 HORT 570 HORT 575 HORT 625 Specialization of	Herbaceous Ornamental Plant Plants in the Inter. Environmental Operations Mgmt Nursery/Garden Cntr. Operations	29 s 3 ent — : 3 ons —	<u>Greenhouse an</u> <u>HORT 570</u> <u>HORT 575</u> <u>HORT 582</u> <u>HORT 583</u>	d Nursery Management special Greenhouse Operations Mgmt Nursery/Garden Cntr Ops Foundations of Hort Pest Mgt Survey of Horticultural Ornam and Food Crop Pests Herbaceous Landscape Plant F	alization 3 3 1 nental 1 Prod
Greenhouse ma HORT 376 HORT 377 HORT 570 HORT 575 HORT 625 Specialization of AGRON 330	Herbaceous Ornamental Plant Plants in the Inter. Environmental Plants of the Interest	29 s 3 ent — : 3 ons —	<u>Greenhouse an</u> <u>HORT 570</u> <u>HORT 575</u> <u>HORT 582</u> <u>HORT 583</u> <u>HORT 600</u> <u>HORT 625</u>	d Nursery Management special Greenhouse Operations Mgmt Nursery/Garden Cntr Ops Foundations of Hort Pest Mgt Survey of Horticultural Ornam and Food Crop Pests	alization 3 3 1 nental 1 Prod
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Greenhouse ma HORT 376 HORT 377 HORT 570 HORT 575 HORT 625 Specialization of AGRON 330 HORT 210	Herbaceous Ornamental Plant Plants in the Inter. Environme Greenhouse Operations Mgmt Nursery/Garden Cntr. Operati Floral Crops Prod & Handling electives: Choose 4 (12-13 crs) Weed Science Concepts of Floral Design	29 s-3 ent—— :-3 ons—— :-4 3 3 gn——	<u>Greenhouse an</u> <u>HORT 570</u> <u>HORT 575</u> <u>HORT 582</u> <u>HORT 583</u> <u>HORT 600</u> <u>HORT 625</u>	Greenhouse Operations Mgmt Nursery/Garden Cntr Ops Foundations of Hort Pest Mgt Survey of Horticultural Ornam and Food Crop Pests Herbaceous Landscape Plant F Floral Crops Prod and Handlingelectives from list below (9 cr)	alization 3 3 1 nental 1 Prod
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Greenhouse ma HORT 376 HORT 377 HORT 570 HORT 575 HORT 625 Specialization of AGRON 330 HORT 210 HORT 275 HORT 374 HORT 375 HORT 508 HORT 515 HORT 585	Herbaceous Ornamental Plant Plants in the Inter. Environme Greenhouse Operations Mgmt Nursery/Garden Cntr. Operati Floral Crops Prod & Handling electives: Choose 4 (12-13 crs) Weed Science Concepts of Floral Design Concepts of Horticulture Desi Woody Plant Materials I Woody Plant Materials II Landscape Maintenance Turf Management Arboriculture	29 s 3 ent — 5 4 —3 —3 —3 —3 —3 —3	Greenhouse and HORT 570 HORT 575 HORT 582 HORT 583 HORT 600 HORT 625 Specialization 6 HORT 374 HORT 375 HORT 376 HORT 377 Specialization 6 AGRON 330 HORT 210 HORT 275	Greenhouse Operations Mgmt Nursery/Garden Cntr Ops Foundations of Hort Pest Mgt Survey of Horticultural Ornam and Food Crop Pests Herbaceous Landscape Plant F Floral Crops Prod and Handlin electives from list below (9 cr) Woody Plant Materials I Woody Plant Materials II Herbaceous Ornamental Plants Plants Interior Environment electives from list below (11 cr) Weed Science Concepts Floral Design Horticultural Design I Landscape Maintenance Basic Turfgrass Culture	dization 3 3 1
Greenhouse ma HORT 376 HORT 377 HORT 570 HORT 575 HORT 625 Specialization of AGRON 330 HORT 210 HORT 275 HORT 374 HORT 375 HORT 508 HORT 515 HORT 585	Herbaceous Ornamental Plant Plants in the Inter. Environme Greenhouse Operations Mgmt Nursery/Garden Cntr. Operati Floral Crops Prod & Handling electives: Choose 4 (12-13 crs) Weed Science Concepts of Floral Design Concepts of Horticulture Desi Woody Plant Materials I Woody Plant Materials II Landscape Maintenance Turf Management Arboriculture	29 s 3 ent — 5 4 —3 —3 —3 —3 —3 —3	Greenhouse and HORT 570 HORT 575 HORT 582 HORT 583 HORT 600 HORT 625 Specialization 6 HORT 374 HORT 375 HORT 376 HORT 377 Specialization 6 AGRON 330 HORT 210 HORT 275 HORT 508 HORT 508 HORT 515	Greenhouse Operations Mgmt Nursery/Garden Cntr Ops Foundations of Hort Pest Mgt Survey of Horticultural Ornam and Food Crop Pests Herbaceous Landscape Plant F Floral Crops Prod and Handling electives from list below (9 cr) Woody Plant Materials I Woody Plant Materials II Herbaceous Ornamental Plants Plants Interior Environment electives from list below (11 cr) Weed Science Concepts Floral Design Horticultural Design I Landscape Maintenance	dization 3 3 1
Greenhouse ma HORT 376 HORT 377 HORT 570 HORT 575 HORT 625 Specialization of AGRON 330 HORT 210 HORT 275 HORT 374 HORT 375 HORT 508 HORT 515 HORT 585 HORT 775	Herbaceous Ornamental Plant Plants in the Inter. Environme Greenhouse Operations Mgmt Nursery/Garden Cntr. Operati Floral Crops Prod & Handling electives: Choose 4 (12-13 crs) Weed Science Concepts of Floral Design Concepts of Horticulture Desi Woody Plant Materials I Woody Plant Materials II Landscape Maintenance Turf Management Arboriculture	29 s 3 ent cons cons cs 4 cs 3 cs 4 cs 3	Greenhouse and HORT 570 HORT 575 HORT 582 HORT 583 HORT 600 HORT 625 Specialization 6 HORT 374 HORT 375 HORT 376 HORT 377 Specialization 6 AGRON 330 HORT 210 HORT 275 HORT 508 HORT 515 HORT 595	Greenhouse Operations Mgmt Nursery/Garden Cntr Ops Foundations of Hort Pest Mgt Survey of Horticultural Ornam and Food Crop Pests Herbaceous Landscape Plant F Floral Crops Prod and Handlin electives from list below (9 cr) Woody Plant Materials I Woody Plant Materials II Herbaceous Ornamental Plants Plants Interior Environment electives from list below (11 cr) Weed Science Concepts Floral Design Horticultural Design I Landscape Maintenance Basic Turfgrass Culture Landscape Irrigation Systems Arboriculture	dization 3 3 1 1 1 1 1 1 1 1

HORT 374	Woody Plant Materials I 3		
HORT 375	Woody Plant Materials II 3		
HORT 570	Greenhouse Operations Mgmt 3	_	
HORT 575	Nursery/Garden Cntr. Operations	3	
•	electives: Choose 4 (12-13 cr)		
HORT 275	Concepts of Horticulture Design	<u> </u>	
HORT 376	Herbaceous Ornamental Plants 3		
HORT 508	Landscape Maintenance 3		
HORT 515	Turf Management 3		
HORT 550	Landscape Irrigation Systems 3		
HORT 585	Arboriculture 3		
HORT 625	Floral Crops Prod & Handling 4		
HORT 775	Plant Nutrition/Nutrient Mgmt 3		
Landscape des	ign specialization31	Landscape d	esign specialization29
HORT 275 Co	oncepts of Horticulture Design 4	HORT 275	Horticultural Design I 3
HORT 374	Woody Plant Materials I 3	HORT 374	Woody Plant Materials I 3
HORT 375	Woody Plant Materials II 3	HORT 375	Woody Plant Materials II 3
HORT 376	Herbaceous Ornamental Plants 3	HORT 376	Herbaceous Ornamental Plants 3
HORT 508	Landscape Maintenance 3	HORT 508	Landscape Maintenance <u>2</u>
HORT 510	Horticulture Design 3	HORT 510	Landscape Maintenance 2 Horticultural Design II 2
HORT 551	Landscape Contracts & Constr 3	HORT 551	The Business of Landscape
	-		<u>Contracting</u> <u>1</u>
Design elective	3	HORT 552	Horticultural Landscape Constr 1
_		HORT 515	Basic Turfgrass Culture 2
		HORT 582	Foundations of Hort Pest Mgt 1
		Pest manage	ment elective from list below (2 cr)
		HORT 583	Survey of Horticultural Ornamental
			and Food Crop Pests 1
		HORT 587	Turfgrass Diseases & Mgt
		HORT 588	Turfgrass Weeds & Mgt
		HORT 589	Turfgrass Insects & Mgt
Specialization HORT 515	electives from list below (6 cr) Turf Management 3	Specialization	n electives from list below (6 cr)
HORT 545	Computer Applications in Design	HORT 545	Computer Applications in Design
	3	HORT 550	Landscape Irrigation Systems 3
		HORT 555	Fund of Landscape Irrig Design 2
HORT 580	Advanced Horticulture Design 3	HORT 580	Advanced Horticulture Design 3
HORT 585	Arboriculture 3	HORT 585	Arboriculture 3
		HORT 600	Herbaceous Landscape Plant Prod
Free Electives	5-12	Free Elective	es <u>7-14</u>
Landscape and i	turf management specialization27	Landscape n	nanagement specialization27
AGRON 375	Soil Fertility 3	AGRON 375	
Or	-	Or	-
HORT 706	Turfgrass Science 3	HORT 706	Turfgrass Science 3

HORT 374	Woody Plant Materials I 3	HORT 374	Woody Plant Materials I 3
HORT 375	Woody Plant Materials II 3	HORT 375	Woody Plant Materials II 3
HORT 376	Herbaceous Ornamental Plants 3	HORT 376	Herbaceous Ornamental Plants 3
HORT 508	Landscape Maintenance 3	HORT 508	Landscape Maintenance <u>2</u>
HORT 515	Turf Management 3	HORT 515	Basic Turfgrass Culture 2
		HORT 550	Landscape Irrigation Systems 3
HORT 551	Landscape Contracts & Constr 3	HORT 551	The Business of Landscape Contr
		HORT 552	Horticultural Landscape Constr 1
		HORT 582	Foundations of Hort Pest Mgt 1
HORT 585	Arboriculture 3	HORT 585	Arboriculture 3
	elective 3	110111 202	
Specialization		Pest managem	ent elective from list below (2 cr)
		HORT 583	Survey of Horticultural Ornamental
		<u>110K1 303</u>	
		HORT 587	and Food Crop Pests 1 Turfgrass Diseases & Mgt 1
		HORT 588	Turfgrass Weeds & Mgt
		HORT 589	Turfgrass Insects & Mgt
		<u> HUKT 369</u>	Turigrass filsects & Wigt
Free Electives	4-12	Free Electives	7-12
	Therapy specialization		Therapy specialization
	al science10		al science 10
CHM 210	Chemistry I 4	<u>CHM 110</u>	General Chemistry 3
N. A. (TEXT. 100)		<u>CHM 111</u>	General Chemistry Lab 1
MATH 100	College Algebra 3	MATH 100	General Chemistry3General Chemistry Lab1College Algebra3Intro to Statistics3
STAT 320	Elements of Statistics 3	STAT 325	Intro to Statistics 3
Or			
STAT 330	Elementary Statistics for Social		
	Sciences 3		
Horticulture	requirement23	Horticulture 1	requirement23
HORT 190	Pre-Internship in Horticulture 1	HORT 190	Pre-Internship in Horticulture 1
HORT 201	Principles of Horticulture Science	HORT 201	Principles of Horticulture Science
HORT 350	Plant Propagation 3	HORT 350	Plant Propagation 3
HORT 520	Fruit Production 3	HORT 520	Fruit Production 3
Or	110101100001	Or	110101100000
HORT 560	Vegetable Crop Production 3	HORT 560	Vegetable Crop Production 3
110111 000	regement erop reduction	HORT 599	The Horticultural Professional 0
		HORT 582	Foundations of Hort Pest Mgt 1
		HORT 583	Survey of Horticultural Ornamental
		<u>110K1 505</u>	and Food Crop Pests 1
Horticulture el	ectives 12	Horticulture el	
Tiorneuntare en	icetives 12	Horticulture el	<u>10</u>
Horticultural	Therapy specialization28	Horticultural	Therapy specialization29
HORT 235	Intro to the Horticultural		
	Therapy Profession 3		
HORT 256	Human Dimensions of Hort. 3	HORT 256	Human Dimensions of Hort. 3
HORT 374	Woody Plant Materials I 3	HORT 374	Woody Plant Materials I 3
HORT 376	Herbaceous Ornamental Plants 3	HORT 376	Herbaceous Ornamental Plants 3
HORT 377	Plants of the Interior Environmnt, 3	HORT 377	Plants of the Interior Environmnt.

HORT 525 HORT 530 HORT 535 HORT 540 HORT 570	Horticulture for Special Pop. Horticultural Therapy Case Mg Horticultural Therapy Field Tec Horticultural Therapy Field Ex Greenhouse Operations Mgmt	gmt 1 ch p	HORT 525 HORT 530 HORT 535 HORT 540 HORT 570 HORT 600 HORT 625	Horticulture for Special Pop. Horticultural Therapy Case Mg Horticultural Therapy Field Tec Horticultural Therapy Field Ex Greenhouse Operations Mgmt Herbaceous Landscape Plant Pr Floral Crops Prod & Handling	mt ch p 3
Human science	e and service requirements1	3	Human science	e and service requirements <u>1</u>	2
PHIL 365	Medical Ethics	3	SOCIO 360		
PSYCH 505	Abnormal Psychology	3	PSYCH 505	Abnormal Psychology	<u>3</u> 3
PSYCH 520	Life Span Personality Dev		PSYCH 520	Life Span Personality Dev	
SOCIO 520	Methods of Social Research	4	<u>THTRE 665</u>	Drama Therapy with Special Po	о <u>р.</u>
		_			_
	ectives1			ectives 1	
ANTH 204	Cultural Anthropology	3	ANTH 204	Cultural Anthropology	3
ANTH 510	Kinship & Marriage in Cross C				
ANITH 511	1	3			
ANTH 511	Cultural Ecology & Economy	3 2			
ANTH 618	Religion in Culture	- 3			
AMETH 160 I	ntro Am Ethnic Studies	3	AMETH 160 I	ntro Am Ethnic Studies	3
ART 560	Art for Exceptional Individual				
BIOL 330	Public Health Biology	3	BIOL 330	Public Health Biology	3
BIOL 340	Structure and Function of the				
	Human Body	8			
EDSP 500	Introduction to Human		EDSP 500	Introduction to Human	
	Exceptionality	3		Exceptionality	3
	1		FSHS 110		3
			FSHS 310	Early Childhood	
			FSHS 350	Family Relationships & Gender	<u>r</u>
				Roles	<u>3</u> 3
FSHS 415		3	FSHS 415		
FSHS 506 Mid	ldle Childhd. & Adolescence	3	FSHS 506	Middle Childhood & Adolescer	nce
GERON 315	Introduction to Gerontology	3	GERON 315	Introduction to Gerontology	3
HIST 534	Social History of Medicine	3	HIST 534	Social History of Medicine	3
KIN 220	Biobehavioral Bases of Exercis	se3	KIN 220	Biobehavioral Bases of Exercis	e3
KIN 345	Psychological Dynamics of		KIN 345	Psychological Dynamics of	
	Physical Activity			Physical Activity	
			MC 180	Fundamentals of Public Relation	
		_	PHIL 365	Medical Ethics	<u>3</u>
PSYCH 202	\mathcal{E}	2	PSYCH 202	\mathcal{E}	2
PSYCH 280	Psychology of Childhood and	2	PSYCH 280	Psychology of Childhood and	2
DOMOU 510		3	DOMOU 470		3
PSYCH 510	Introduction to Behavior	2	PSYCH 470	Psychobiology Carial Parallele	<u>3</u> <u>3</u>
DCVCII 500		3	PSYCH 535		
PSYCH 520	Life Span Personal Developme		SOCIO 432	Soc. Of Criminal Justice System	
SOCIO 432		3	SOCIO 432 SOCIO 460		3
SOCIO 460 THTRE 665	Juvenile Delinquency Drama Therapy with Special	J	50CIO 400	Juvenile Delinquency	J
THIRE UUS	Diama incrapy with special				

	Populations OR	3			
THTRE 674	Drama Therapy with Adolesce	ents—			
THTRE 675	OR Drama Therapy with Older Ad	ults3			
	Ianagement Specialization			Ianagement Specialization	
	2	20			20
BIOL 198		4	BIOL 198	Principles of Biology	4
CHEM 210	Chemistry I	-4		General Chemistry	3 1 3
			<u>CHEM 111</u>	General Chemistry Lab	1
Computer scien		3	Computer scien		
MATH 100	College Algebra	3	MATH 100	College Algebra	3
MATH 205	General Calc & Linear Algebra	ra	MATH 205	General Calc & Linear Algebra	a 3
Statistics electi	ve	3	Statistics electi	ve	3
Internship	•••••	.6	Internship	•••••	. 6
HORT 190	Pre-Internship in Horticulture	1	HORT 190	Pre-Internship in Horticulture	
HORT 590	Horticulture Internship	2	HORT 590	Horticulture Internship	2
	(at a golf facility)			(at a golf facility)	
HORT 590	Horticulture Internship	3	HORT 590	Horticulture Internship	3
110111 070	(at a golf facility)	C	110111 070	(at a golf facility)	
	Or			Or	
HRIMD 495/			HRIMD 495/		
GENBA 495	Golf Course Internship in		GENBA 495	Golf Course Internship in	
GLNDM 473	Business/Hospitality Managen	nent	GLNDN 473	Business/Hospitality Managem	nent
	Business/Hospitanty Wanagen	iciit	HORT 599 The	e Horticultural Professional	iciit
			110K1 377 11K	e Horticultural Froiessional	
Turf Manager	nent	39	Turf Manager	nent	<u>40</u>
GENAG 101		1	CENTA C 101	Ag Orientation	4
	Ag Orientation	1	GENAG 101	Ag Offentation	1
AGRON 305	Ag Orientation Soils	4	AGRON 305	Soils	1 4
	~			-	
AGRON 305	Soils	4	AGRON 305	Soils	4
AGRON 305	Soils Environmental Quality	4 3	AGRON 305	Soils Environmental Quality	4 3
AGRON 305 AGRON 335	Soils Environmental Quality Or	4 3	AGRON 305 AGRON 335	Soils Environmental Quality Or	4 3
AGRON 305 AGRON 335 FOR 375	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility	4 3 gt 3 3	AGRON 305 AGRON 335 FOR 375	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility	4 3 t 3 3
AGRON 305 AGRON 335 FOR 375 AGRON 375	Soils Environmental Quality Or Intro to Natural Resources Ma	4 3 gt 3 3	AGRON 305 AGRON 335 FOR 375 AGRON 375	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat	4 3 t 3 3
AGRON 305 AGRON 335 FOR 375 AGRON 375	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigan	4 3 gt 3 3 tion	AGRON 305 AGRON 335 FOR 375 AGRON 375	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility	4 3 t 3 3 tion
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653	Soils Environmental Quality Or Intro to Natural Resources Management and Irrigate Systems Or	4 3 gt 3 3 tion 3	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or	4 3 t 3 3 tion 3
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems	4 3 gt 3 3 tion	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems	4 3 t 3 3 cion 3 3
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science	4 3 gt 3 3 tion 3 4	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science	4 3 t 3 3 tion 3 4
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems	4 3 gt 3 3 tion 3	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems	4 3 t 3 3 cion 3 3
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I	4 3 gt 3 3 tion 3 4 3	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I	4 3 t 3 3 sition 3 4 3 3 3
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374	Soils Environmental Quality Or Intro to Natural Resources Management and Irrigate Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or	4 3 gt 3 3 tion 3 4 3	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or	4 3 3 t 3 3 sion 3 4 3
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374	Soils Environmental Quality Or Intro to Natural Resources Management and Irrigate Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II	4 3 gt 3 3 tion 3 4 3	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II	4 3 t 3 3 sition 3 4 3 3 3
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374	Soils Environmental Quality Or Intro to Natural Resources Management and Irrigate Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II	4 3 gt 3 3 tion 3 4 3	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374 HORT 375 HORT 515	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II Basic Turfgrass Culture	4 3 3 3 3 4 3 3 2
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374	Soils Environmental Quality Or Intro to Natural Resources Management and Irrigate Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II Turf Management	4 3 gt 3 3 tion 3 4 3	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374 HORT 375 HORT 515	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II Basic Turfgrass Culture Intensive Culture of Golf and	4 3 t 3 3 sition 3 4 3 3 3
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374 HORT 375 HORT 515	Soils Environmental Quality Or Intro to Natural Resources Management and Irrigate Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II	4 3 gt 3 3 tion 3 4 3 3	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374 HORT 375 HORT 515 HORT 516	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II Basic Turfgrass Culture Intensive Culture of Golf and Sports Turf	4 3 t 3 3 cion 3 4 3 2
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374 HORT 375 HORT 515	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II Turf Management Golf Course Operations	4 3 gt 3 3 tion 3 4 3 3	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374 HORT 375 HORT 515 HORT 516	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II Basic Turfgrass Culture Intensive Culture of Golf and Sports Turf Golf Course and Sports Turf Operations	4 3 3 3 3 4 3 3 2
AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374 HORT 375 HORT 515	Soils Environmental Quality Or Intro to Natural Resources Management and Irrigate Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II Turf Management	4 3 3 4 3 3 3 3 3 3 3 3	AGRON 305 AGRON 335 FOR 375 AGRON 375 ATM 653 HORT 550 HORT 201 HORT 374 HORT 375 HORT 515 HORT 516 HORT 517	Soils Environmental Quality Or Intro to Natural Resources Mg Soil Fertility Water Management and Irrigat Systems Or Landscape Irrigation Systems Principles of Hort Science Woody Plant Materials I Or Woody Plant Materials II Basic Turfgrass Culture Intensive Culture of Golf and Sports Turf Golf Course and Sports Turf	4 3 t 3 3 cion 3 4 3 2

		HORT 582	Foundations of Hort Pest M	<u>gt 1</u>
		HORT 587	Turfgrass Diseases & Mgt	<u>1</u>
		HORT 588	Turfgrass Weeds & Mgt	
		HORT 589	Turfgrass Insects & Mgt	
Horticulture elective	3	Horticulture e	elective	3
Pest management elective	3			
	- 0			- 0
Free electives	7-9	Free electives	5	<u>6-8</u>

RATIONALE:

Quantitative sciences: the change from CHM 210 to CHM 110/111 is due to our recognition that CHM 110/111 offers the knowledge of chemistry necessary for the horticulture major; BIOCHM 265 is required rather than one of two Organic chemistry electives, this change is required since the other elective requires CHM 210; removing computer science elective choices in recognition that the majority of our students come to us with acceptable computer skills

Horticulture requirement: the pest management elective has been incorporated into each of the specialization curricula, all hort students will be required to take HORT 582 Foundations of Hort Pest Management and depending on the specialization, also choose 1-3 additional credits from a list of approved courses; the addition of HORT 599 The Horticultural Professional is a new course required of all hort majors, this is a capstone course of a 3-course series (HORT 190, 590, 599) that focuses on the hort industry and serves as a mechanism to collect end-program assessments

Specializations: Changes within each specialization reflect changes in existing courses being put forth at this time and the addition of new courses being put forth at this time. Specialization name changes more accurately reflect the curriculum. Combining the nursery management and greenhouse specializations recognizes the considerable overlap and the fact we can serve our students better within the context of one specialization

IMPACT: All units who will be impacted by the above changes have been contacted.

EFFECTIVE DATE: Fall 2008

Sports Turf Operations Management (New Option under the Horticulture major)

Technical Cor	e20 hou	ırs	Turf Managen	nent 47 hou	ırs
BIOL 198	Principles of Biology	4	GENAG 101	Ag Orientation	1
CHM 110	General Chemistry	3	AGRON 305	Soils	
CHM 111	General Chemistry Lab	1	AGRON 335	Environmental Quality	3
Computer Scien	nce Elective	3		OR	
Math 100	College Algebra	3	FOR 375	Intro. to Natural Resource	
Math 205	General Calculus &LinearAlg	ebra		Management	3
Statistics elective	ve		AGRON 375	Soil Fertility	3
			ATM 653	Water Mgt. and Irrigation Sys	tems
Communication	on and Interpersonal			OR	
Relations	17 hou	ırs	HORT 550	Landscape Irrigation Systems	3
ENGL 100	Expository Writing I	3	HORT 201	Principles of Horticultural Sci	ence
ENGL 200	Expository Writing II	3	HORT 374	Woody Plant Materials I	3
SPCH 105	Public Speaking 1A	2		OR	
Communication	ns Electives	9	HORT 376	Herbaceous Ornamental Plants	s 3
			HORT 515	Basic Turfgrass Culture	2
Internship	6 hou	ırs	HORT 516	Intensive Culture of Golf and	
HORT 190	Pre-Internship in Horticulture	1		Sports Turf	1
HORT 590	Horticulture Internship	2	HORT 517	Golf Course and Sports Turf	
HORT 590	Horticulture Internship	3		Operations	3
			HORT 706	Turfgrass Science	3
Humanities an	d Social Sciences 14 hou	ırs	PLPTH 500	Principles of Plant Pathology	3
ECON 110	Prin. of Macroeconomics	3	RRES 690	Parks and Recreation Adm.	4
ECON 120	Prin. of Microeconomics		RRES 489	Program and Event Planning	3
OR			Horticulture Ele	ective	3
AGEC 120	Agric. Econ. And Agric. Bus	3	HORT 582	Foundations of Horticultural F	est
Humanities and	Social Science Elective	3		Management	1
Foreign Langua	nge Elective	3-5	HORT 587	Turfgrass Diseases and their	
				Management	1
Business Mana	agement15 hou	ırs	HORT 588	Turfgrass Weeds and their	
ACCTG 231	Accounting for Business Ops.	3		Management	1
MANGT 420	Management Concepts	3	HORT 589	Turfgrass Insects and their	
MKTG 400	Marketing	3		Management	1
MANGT 531	Human Resource Managemen	ıt 3			
MKTG 630	Sports Marketing	3	Hospitality	4 hou	ırs
			HRIMD 220	Environmental Issues in Hosp	. 2
			HRIMD 340	Contemporary Issues in Contr	olled
				Beverages	2
			Free Electives	7 hou	ırs

24

Total Credit Hours Required for Graduation130

RATIONALE:

Sports Turf Operations Management is proposed as a new specialization under the Horticulture major in the Department of Horticulture, Forestry and Recreation Resources. There is a growing demand for professionals in this area and we believe the proposed curriculum is unique and will prepare graduates well for careers in this area. The Sports Turf Operations Management option was prepared with input from the Board of Directors of the Sports Turf Managers Association (STMA). This included comments from sports turf managers overseeing sports turf and related operations for major league baseball, the NFL, and K-12 school districts (see following pages). The national sports turf sales manager for the Toro Corporation is an adjunct faculty in our department, and will be involved in student instruction for 1 to 2 weeks every year.

Modeled after our Golf Course Management program, the Sports Turf Operations Management option places an emphasis on horticulture and turfgrass science, and compliments this with course work in communications, business, and hospitality. The STMA members repeatedly emphasized the importance of business and communications and supported the inclusion of some hospitality courses. The importance of work experience prior to graduation is again emphasized with 6 credits of internship required.

In summary, we believe the proposed Sports Turf Operations Management option will be unique in the U.S., much as our current Golf Course Management program is, and will produce graduates well prepared for the challenges of this growing industry.

IMPACT:

All impacted units have been contacted.

EFFECTIVE DATE:

Fall 2008

Public Horticulture (new option)

Communications11 hou	ırs	Public Horticu	ulture Specialization 31 hou	ırs
ENGL 100Expository Writing I	3	HORT 256	Human Dimensions in Hort	3
ENGL 200 Expository Writing II	3	HORT 275	Horticultural Design I	3
SPCH 105Public Speaking 1 A	2	HORT 301	Horiculture Practicum	3
SPCH 311Business and Professional Spkg.	3	HORT 508	Landscape Maintenance	2
		HORT 360	Public Horticulture	3
Humanities and Social Sciences9 hou	ırs	HORT 570	Greenhouse Operations Mang	t.3
PSYCH 110General Psychology	3	HORT 582	Foundations of Horticulture Po	est
SOCIO 211Intro to Sociology	3		Management	1
AMETH 160Intro to American Ethnic Studies	3	HORT 600	Herbaceous Landscape Plant I	Prod
		Plant materials	electives (6 cr.)	
Math/Chemical Sciences10 hou	ırs	HORT 515	Basic Turfgrass Culture	2
CHM 110General Chemistry	3	HORT 552	Hort Landscape Construction	1
CHM 111General Chemistry Lab	1	HORT 555	The Fundamentals of Landsca	pe
MATH 100College Algebra	3		Irrigation Design	2
Statistics Elective	3	HORT 585	Arboriculture	3
Choose from STAT 325or 350		HORT 625	Floral Crops Production and	
			Handling	2
Agric/Biological Sciences19 hou	ırs		-	
AGRON 305Soils	4	Professional e	lectives from list below 12 hou	ırs
BIOL 198Principles of Biology	4	EDADL 212	Intro to Leadership Concepts	2
BIOL 551 Taxonomy of Flowering Plants	4	EDCI 704	Extension Organization & Prin	n 3
Entomology Elective	3	EDCI 706	Prin of Teaching Adults in	
GENAG 101Ag Orientation	1		Extension	3
PLPTH 500Principles of Plant Pathology	3	GEOG 300	Geography of Tourism	3
		HRIMD 120	Survey of the Hospitality Indu	stry
Business12 hou	ırs	HRIMD 230	Issues in Tourism	2
ACCTG 231Accounting for Bus Operations	3	RRES 489	Program & Event Planning	3
AGEC 120Ag Econ & Ag Business	3	MC 120	Principles of Advertising	3
OR		MC 180	Fundamentals of Public Relati	ons
ECON 120Microeconomics	3	PSYCH 564	Psychology of Organizations	3
MANGT 420Management Concepts	3	RRES 635	Methods of Environmental Int	erp
MANGT 531Human Resources Management	3			
		Free Electives	13 hou	ırs
Horticulture Requirement13 hou				
HORT 190 Pre-Internship in Horticulture	1	TOTAL CRE	DITS FOR GRADUATION 1	30
HORT 201 Principles of Horticultural Sci	ence			
HORT 350 Plant Propagation	3			
HORT 590 Internship	5			
At public garden facilities. One in horticult	ure,			
one in education				
HORT 599 The Horticultural Profession	0			

RATIONALE:

The public horticulture option is intended for students interested in professional careers which promote horticulture and emphasize people and their education and enjoyment of plants. Such careers include director of a botanical garden or park; city or urban horticulturist; extension agent, teacher, educational director, or program coordinator; professional garden writer/editor or publication manager; public garden curator; and plant collections manger. Initial work on developing this specialization was based on recent and current student interest and the fact that very few universities offer this specialization. Additionally, with the continuing development of the K-State Gardens, K-State has the unique opportunity to become a model university garden demonstrating dynamic linkages between the Gardens and an academic unit of the University. While university gardens are not unique, embedding an academic discipline within a university garden is unique. The creation of the Public Horticulture specialization is one step in the Horticulture Divisions plan to establish K-State Gardens as a model university garden.

IMPACT:

No impact outside our department.

EFFECTIVE DATE:

Fall 2008

Attachment 2

Graduate Certificate in Stem Cell Biotechnology As approved by the Graduate Council on October 2, 2007

Introduction

The Midwest Institute for Comparative Stem Cell Biotechnology (the Institute) was created in 2005 based upon emerging research and intellectual property development resulting from the discovery by Kansas State University personnel of a stem cell population in the matrix of the umbilical cord of humans and also domestic and laboratory animals. A website has been created for the institute: http://www.vet.ksu.edu/research/stemcell/index.htm

As is apparent from the website, stem cell research, development of related intellectual property and education in stem cell-related biotechnology are the primary goals. Significant progress has been made in research. All components of the pending patent have been licensed. Fees paid, while confidential under the licensing agreement, are the largest licensing fees ever received by the KSU research foundation by a large margin. The third element of the Institute's aims, education, is the subject of the present proposal.

Learning objectives

The overarching purpose of the proposed certificate program is to add value to other degrees in the biological and life sciences, specifically including animal sciences, veterinary medicine, biology and biochemistry.

Specific learning objectives are enumerated in the assessment plan.

Courses

The core courses in the certificate are:

AP 711. Stem Cells and Comparative Biomedicine. (2) II, S. Characteristics of major categories of stem cells. Applicable or potential clinical uses, including their utilization in tissue engineering or targeted delivery of therapeutics.

AP 850 Stem Cell Techniques. (2) I, S. Cellular and molecular techniques and techniques on tissue culture. Lecture and laboratory hours to be determined.

ASI 802. Gametes, Embryos, and Stem Cells in Farm Animals. (2) I, in odd years. A study of gametes, embryos, pregnancy, and stem cells in farm species including supporting information from laboratory species and humans. Emphasis will be on the regulation of stem cells, gametes, and embryos and on the conceptus-maternal interactions to establish and maintain pregnancy and program conceptus and postnatal development. Two hours lec. a week. Pr.: BIOCH 521.

ASI 902 Topics in Stem Cell Biotechnology. (1) A journal club course in stem cell biotechnology in fall semesters. One semester is required. It can be repeated twice for a total of three credits in the stem cell certificate. Students will evaluate the contribution of scientific papers to the field of stem

cell biology, present scientific data, lead discussions of scientific literature, and become familiar with current concepts in the field of stem cell biology and biotechnology.

Elective courses for emphasis in research or entrepreneurship are:

- **AP 710 Microanatomy.** Origin, development and microscopic structure of the cells and tissues for the animal body. Three hours lecture and six hours lab/week. Pr: First year standing in college of veterinary medicine. Fall semester.
- **AP 995. Problems in Physiology.** (Var.) I, II, S. Special problem-involving techniques utilized in studying the function of various organ systems of the body. Pr.: Consent of instructor.
- **ASI 600. Applied Animal Biotechnology.** (2) II. Emphasis will be placed on the current and future of animals in biotechnology related to food production as well as human medicine applications. Rec. Pr.: Senior standing, BIOCH 521 and ASI 500.
- **ASI 961. Graduate Problem in Animal Sciences and Industry.** (1-3) I, II, S. In-depth study of a topic supervised by a member of the graduate faculty. Pr.: Permission of supervising faculty member.
- **BIOL 510. Developmental Biology.** (3) II. Introduction to the stages and mechanisms of embryonic animal development. Integrated approach that includes classic experimental embryology and the genetic and molecular regulation of invertebrate and vertebrate animal development. Three hours lec. per week. Pr.: BIOL 450.
- **BIOL 670. Immunology.** (4) II. Chemical, genetic, and biological properties of the immune response, acquired immunity, and antibody production. Pr.: Two courses in biology; and a course in biochemistry or equiv.
- **BIOL 671. Immunology Lab.** (2) II. Laboratory exercises in immunology. Pr.: BIOL 670 or conc. enrollment. Three-hour lab a week plus one hour rec.
- **BIOL 705. Eukaryotic Genetics.** (3) I. An integrated exploration of transmission genetics and molecular genetics of eukaryotic organisms. The focus will be on genetic model organisms and their contributions to our understanding of mechanisms of genetic transmission and exchange, mutagenesis, gene expression, and regulation of cell division and development. Modern approaches to genomic analysis will be discussed. Pr.: BIOL 450 and BIOCH 521.
- **BIOL 707. Advanced Cell Biology.** (3) I. Selected current topics in cell biology which reflect recent advances in the field. Major topics include membranes and transport, protein sorting, signal transduction, cell adhesion and motility, cell cycle, apoptosis, and specialized cell functions. Pr.: BIOL 541.
- **BIOL 886.** Confocal, Fluorescence and Light Microscopy. (3) I, in odd years. An introduction to theories, functions and applications of confocal, fluorescence and light microscopy, and fluorescent

molecules. Lab emphasis on students working on independent research projects requiring microscopy. Two hours of lecture and three hours of lab per week.

DMP 705. Principles of Veterinary Immunology. (2) II. Innate and adaptive defense mechanisms in domestic animals. Topics include vaccinology, immunopathology, autoimmunity, immunodeficiency, and immunomodulation. Pr.: BIOCH 521 and BIOL 455

DMP 850. Immunology of Domestic Animals. (3) I. This course is designed to introduce graduate students to immune responses of domestic animals to pathogens and parasites. Pr.: BIOL 541.

DMP 878. Applications of Flow Cytometry. (1-3) I, II, S. Theory and practical experience in the use of flow cytometry in diagnosis and research. Pr.: Graduate standing.

MANGT 845 Technology Entrepreneurship and Strategies. (3)

No pre-requisites other than enrollment in graduate school. This is an evening course taught by Professor Katz and two practitioners in the technology entrepreneurship field.

GRAD 820. Leadership Practicum. (3) I, II. Develops the connections between leadership theory and practice. By conducting a practicum project, students demonstrate the ability to apply concepts and ideas from the study of leadership to a practical leadership problem within an organization. Pr.: GRAD 801 and MANGT 845. The practicum will be developed for stem cell certificate students with the theme "Leading an innovation to market".

PLPTH 610. Biotechnology. (3) I. The use of biotechnology and molecular genetic approaches in plant and animal sciences. Emphasis is on the use of molecular techniques for plant and animal improvement. Three hours lec. per week. Pr.: ASI 500. Same as AGRON 610.

Requirements

Students with graduate standing and a 3.0 GPA in a field in the biological sciences or with a cumulative GPA of 3.0 or higher in the DVM curriculum are eligible to enroll. Exceptions are possible upon approval by the coordinator in consultation with the faculty.

Fifteen hours are required:

AP850, ASI802, ASI902 and AP711 are required. ASI 902 may be taken either two or three times.

Any three of the remaining courses qualify for the remaining credit hour requirements. If BIOL707 is taken, BIOL541 may be required as a pre-requisite.

Meeting learning objectives

The core courses (AP711, AP850, ASI802, ASI902) are designed to ensure a benchmark level of knowledge about stem cell biotechnology. Elective courses are intended to allow for: (1) specific advancement toward research competence in the field or (2) commercialization of stem cell and related technology.

Courses in the certificate may be included in graduate programs upon approval of the student's major professor and advisory committee. Inclusion of courses from other institutions and programs may be substituted for credit in the certificate in stem cell biotechnology with the approval of the program director in consultation with associated faculty.

Need for the proposed program

Stem cell biotechnology and regenerative medicine are emerging as central to the future of human and animal medicine and animal production. A supply of new scientists in basic disciplines with orientation to, or specific training in, stem cell biotechnology will be a necessary part of advancing this area of science, especially as political and social issues are untangled. The research and entrepreneurship tracks provided in the program will allow career flexibility that is becoming an ever-greater necessity for students.

It seems evident that, at this stage of the Institute's development, a graduate level certificate is best suited to capitalize upon the on-going research and intellectual property development. Once a certificate program is successfully established and a significant track record has accrued, consideration will be given to proposal of an interdisciplinary degree. However that would be premature at this juncture and in the near future.

The target audience for the proposed certificate includes graduate students in all the biological sciences, specifically including animal science, veterinary medicine, biology and biochemistry. Also some residents in clinical medicine and surgery may find it advantageous to gain increased expertise in the rising field of regenerative medicine. In addition students in the DVM curriculum that have aspirations toward research or corporate careers would find the certificate in stem cell biotechnology valuable.

Organization and Administration

The governing faculty for the certificate in stem cell biotechnology is comprised of the Kansas State University Founding Fellows of the Midwest Institute for Comparative Stem Cell Biology (see website http://www.vet.ksu.edu/research/stemcell/index.htm). The program director will be Duane L. Davis.

The administrative home of the certificate program will be the Institute. The governance of the Institute is explained on the website. Briefly, the Institute is situated administratively in the Office of the Vice President for Research. Oversight is provided by a liaison committee comprised of the Vice President for Research, the Dean of the College of Veterinary Medicine, the Dean of the College of Agriculture and the Vice Chancellor for Research of the University of Kansas Medical Center and an Executive Committee described in the website.

An extensive list of scientists and other faculty members are affiliated with the institute and are listed in the website. These individuals provide a ready source of highly qualified advisors to students in the certificate program.

Budget

The budget is anticipated to be nominal in that all of these courses in the program will be taught for other purposes also.

Faculty

The Founding Fellows of the institute at Kansas State University are Dr. Duane Davis, ASI; Dr. Deryl Troyer, AP; Dr. Mark Weiss, AP. These individuals, along with the program director, will supervise the program.

Program Director

The program director will be Dr. Duane L. Davis, Professor of Animal Sciences and Industry.

Learning outcomes and assessment

Learning outcomes and an assessment plan is attached.

Cover Sheet for Student Learning Outcomes

Directions: For each program (e.g., degree, certificate, minor, secondary major, etc.) and level (undergraduate and graduate), please complete separate cover sheets. Feel free to make copies of this sheet if needed. Those graduate programs with an integrated master's and doctoral program may provide one set of cover sheets.

Department / Unit: Midwest Institute for Co Title of Academic Program: <u>Graduate Cer</u>	±	C.
Faculty contact(s) for the list of student lear	rning outcomes for this acad	lemic program:
Duane Davis		
	<u> </u>	
Type of Degree (check one):		
Bachelor's Master's	Ph.D.	Ed.D.
U. Certificate Minor	Secondary major	Associate
G. Certificate		
☐ Joint Degree (list the degree type	es):	
Other:		

List of Student Learning Outcomes for this Degree Program

Please provide an attached list of learning outcomes or copy and insert them below.

- 1. Students completing the Graduate Certificate in Stem Cell Biotechnology will know cellular and molecular qualities that define stem cells; where stem cells may be found; and how stem cells can be isolated.
- 2. Students completing the Graduate Certificate in Stem Cell Biotechnology will posses the knowledge and skills that allow them to critically evaluate the peer-reviewed literature in stem cell biology.
- 3. Students completing the Graduate Certificate in Stem Cell Biotechnology will understand the emerging areas of application of stem cells in regenerative medicine and food animal health and production.
- 4. Students completing the Graduate Certificate in Stem Cell Biotechnology will possess skills in culture of mammalian stem cells.

5. Students completing the Graduate Certificate is knowledge, skills and social understanding to crissues associated with stem cell biology.		<u> </u>	ical
Please check the description(s) that best reflect the infor	mation beir	ng submitted.	
Faculty for The Midwest Institute for Comparat Stem Cell Biology have reviewed and endorse t of student learning outcomes being submitted.		Date of Endorsement:	
Director, Midwest for Comparative Stem Cell Biology Signature	Date		
Dean of the Graduate School's Signature (Required for Graduate Degree Programs)	Date		

Template Degree Program Assessment of Student Learning Plan

Kansas State University

X Check the box if your program's student learning outcomes have been modified since November 2003. If so, please email (apr@ksu.edu) or attach a hard copy to this document.

College, Department, and Date

Colleges: Veterinary Medicine and Agriculture

Department: Anatomy and Physiology; Animal Sciences and Industry

Date: February 23, 2007

Contact Person(s) for the Assessment Plans

Dr. Duane Davis

Degree Program

Graduate Certificate in Stem Cell Biotechnology

Assessment of Student Learning Three-Year Plan

Student learning outcomes:

- 1. Students completing the Graduate Certificate in Stem Cell Biotechnology will know cellular and molecular qualities that define stem cells; where stem cells may be found; and how stem cells can be isolated.
- 2. Students completing the Graduate Certificate in Stem Cell Biotechnology will posses the knowledge and skills that allow them to critically evaluate the peer-reviewed literature in stem cell biology.
- 5. Students completing the Graduate Certificate in Stem Cell Biotechnology will posses the knowledge, skills and social understanding to critically evaluate and articulate the range of ethical issues associated with stem cell biotechnology.

<u>Relationship to K-State Student Learning Outcomes</u> (insert the program SLOs and check all that apply):

	Program SLO is		
Program SLOs	Knowledge	Attitudes and Professional Conduct	conceptually different from university SLOs
1. Know cellular and molecular qualities that define stem cells; where stem cells may be found; and how stem cells can be			Program SLO is consistent with University SLO.
isolated. 2. Posses the knowledge and skills that allow them to critically evaluate the peer-reviewed literature in stem cell biology.			Program SLO is consistent with University SLO.
5. Posses the knowledge, skills and social understanding to critically evaluate and articulate the range of ethical issues associated with stem cell biology.		X	Program SLO is consistent with University SLO.

How will the learning outcomes be assessed? What groups will be included in the assessment?

	University-wide SL	Program SLO is		
Program SLOs	Knowledge	Skills	Attitudes and Professional Conduct	conceptually different from university SLOs
1. Know cellular and molecular qualities that define stem cells; where	1. Direct measure— Capstone exam. 2. Indirect measure—			Program SLO is consistent with University SLO.

stem cells may be found; and how stem cells can be	Career placement of certificate graduates.			
isolated. 2. Posses the knowledge and skills that allow them to critically evaluate the peer-reviewed literature in stem cell biology.	1. Direct measure—Paper presentations and participation in paper discussions in ASI 902 Topic/Stem Cell Biotechnology.	1. Direct measure— Oral paper presentations and participation in paper discussions in ASI 902 Topic/Stem Cell Biotechnology.		Program SLO is consistent with University SLO.
5. Posses the knowledge, skills and social understanding to critically evaluate and articulate the range of ethical issues associated with stem cell Biotechnology.	Ziercermete 8,7:		1. Direct measure— Attitude survey administered in ASI 902 Topics/Stem Cell Biotechnology	Program SLO is consistent with University SLO.

When will these outcomes be assessed? When and in what format will the results of the assessment be discussed?

- 1. Students completing the Graduate Certificate in Stem Cell Biotechnology will know cellular and molecular qualities that define stem cells; where stem cells may be found; and how stem cells can be isolated.
 - a. Upon completion of the coursework requirements for the Graduate Certificate in Stem Cell Biotechnology, all certificate seeking students will be expected to take a web-based comprehensive capstone exam covering fundamental aspects of stem cell biology (exam will be updated annually to reflect new developments in the field). Results of the exam will be shared with individual students upon completion. It is expected that students completing the Certificate will score 80 % or greater on the capstone exam. It is recommended that Ph.D. students take the exam prior to, or as a part of, their preliminary examinations and, at the discretion of their graduate committee, it could serve as a part of the determination of their readiness to enter candidacy for the Ph. D. degree.
 - b. Core scientists in teaching courses and conducting research through the Midwest Institute for Comparative Stem Cell Biology will be heavily engaged in training students that ultimately are awarded the Graduate Certificate in Stem Cell Biotechnology. It is expected that these students will secure employment in academia or allied industries in biomedical sciences. Therefore, placement of all graduate and DVM students after completion of their degrees will be tracked to gain indirect evidence

that the Certificate may be adding value to master, doctoral and DVM degrees. Data will be gathered via a web-based survey of graduates administered within 12 months of graduation.

- 2. Students completing the Graduate Certificate in Stem Cell Biotechnology will posses the knowledge and skills that allow them to critically evaluate the peer-reviewed literature in stem cell biology.
 - a. All students completing the Graduate Certificate will be required to enroll in ASI 902 Topics/Stem Cell Biotechnology. A rubric has been developed (attached) to assess student's working knowledge of stem cell biology as well as their oral communication skills in discussing stem cell biology.
- 3. Students completing the Graduate Certificate in Stem Cell Biotechnology will understand and have the skills to articulate the emerging areas of application of stem cells in regenerative medicine and food animal health and production.
- 4. Students completing the Graduate Certificate in Stem Cell Biotechnology will possess skills in culture of mammalian stem cells.
- 5. Students completing the Graduate Certificate in Stem Cell Biotechnology will posses the knowledge, skills and social understanding to critically evaluate and articulate the range of ethical issues associated with stem cell biology.
 - a. All students will complete a survey that evaluates attitudes toward the diversity of ethical views surrounding the use of stems cells in animal research and therapeutics. The ability of students to be tolerant and understanding of diverse views will make them more effective professionals once in the workplace. This web-based survey will be updated annually to include developing concerns and views and will be administered to all students in their first semester of enrollment in ASI 802 and again in their final semester in ASI 902 (coincident with completion of the coursework requirements for the Certificate). Completion of both surveys will be a requirement for successful completion of the Certificate.

What is the unit's process for using assessment results to improve student learning?

The faculty coordinator for ASI 902 in each fall semester offering of the course will be responsible for summarizing assessment data for Certificate graduates from the previous academic year, as well as comprehensive data accumulated from all Certificate graduates (at least three years may be required to accumulate sufficient numbers of Certificate graduates to obtain some measure of reliability of the data). The data will be presented to both core faculty and graduate students sometime during the first four meetings of ASI 902. The data will be discussed (among faculty and students) and where results of assessment point to failure to attain the expected outcome, a corrective course of action will be recommended. This course of action may point to appropriate changes in curriculum and(or) fine tuning of assessment tools.

ATTACHMENT 3

ACADEMIC FRESH START GPA AND ACADEMIC FORGIVENESS GPA POLICY CAPP POLICY – APPROVED BY CAPP ON 9-12-07 APPROVED BY ACADEMIC AFFAIRS ON 9-18-07

Expanded Rationale Statements for Recommended Changes to Academic Fresh Start Policy (now includes the additional Academic Forgiveness Policy)

- 1. Although the numbers are small, since the Academic Fresh Start policy was initiated it has helped students with retention and persistence to graduation. There have been 140 students granted this option between 1997 and 2006, and the vast majority of these students who have benefited from Academic Fresh Start have graduated.
- 2. The addition of the Academic Forgiveness policy will minimize academic penalties to students who are subject to extenuating circumstances beyond their control, which have caused drastic changes to their academic performance for one or two consecutive semesters.
- 3. The resulting action of the Academic Fresh Start and Academic Forgiveness policies does not change grades or the cumulative GPA. The effect of these policies is to provide a second GPA (Academic Fresh Start GPA or Academic Forgiveness GPA) that excludes the effect of a student's atypical performance caused by situations considered by these two policies. This second GPA is therefore a truer expression of a student's academic abilities and performance.
- 4. The Academic Fresh Start GPA and the Academic Forgiveness GPA would remove the undesirable stigma of a GPA below a student's abilities, and may allow under specified conditions the consideration of the student for university academic honors, scholarships, and professional programs. Some GPA requirements would not be affected, such as graduate school requirements and those leading to teacher licensure.
- 5. Having a written policy in place will create a consistent guideline to be used across colleges. Students and advisors will be aware that Academic Forgiveness is an option for students for whom extenuating circumstances caused drastic changes to their academic performance.
- 6. In order to be in line with the current Academic Dismissal Policy (12 hours with 2.2 semester GPA for immediate reinstatement), the proposed semester GPA required to apply for either of the Academic Fresh Start and Academic Forgiveness policies is a 2.2 (whereas the present Academic Fresh Start policy requires a 2.5 GPA).
- 7. A student may apply only once, and to only one or the other policy, and the process cannot be reversed.
- 8. Deans or their designees will still have the discretion to approve or not approve an application for Academic Fresh Start or Academic Forgiveness.

ACADEMIC FRESH START GPA POLICY and ACADEMIC FORGIVENESS GPA POLICY

Approved by CAPP 9-12-07

The **Academic Fresh Start** and **Academic Forgiveness** Policies enable an undergraduate student to neutralize, in part, the grade impact of prior academic performance. **Academic Fresh Start** and **Academic Forgiveness** provide for the computation of an alternative GPA and for the use of that GPA in most academic situations. A student may apply only once, and to only one or the other, and the process cannot be reversed. A student may not apply for either policy until he or she has been reinstated into his or her college.

I. Conditions for a readmitted student to be eligible to apply for **Academic Fresh Start** are:

- A) The student was not enrolled in a K-State course for three (3) calendar years prior to readmission.
- B) After readmission, the student earned a K-State GPA of 2.2¹ or higher at the end of the academic session in which the twelfth credit was earned.
- C) Up to 60 consecutive hours² of course work and K-State GPA may be restricted from the regular GPA calculation. The beginning point for the **Academic Fresh Start** GPA shall be the first, second, third, fourth, or fifth³ academic semester of enrollment following the student's initial K-State date of entry. The choice of the starting point is designated by the student at the time of application for **Academic Fresh Start** and hours excluded from the calculation must be consecutive.

II. Conditions for a student to be eligible to apply for *Academic Forgiveness* are:

- A) The student experienced one or more extenuating circumstances which caused a drastic change to the student's academic performance in one or two semesters.
- B) After the session(s) affected by the extenuating circumstance, the student earned a K-State GPA of 2.2 or higher at the end of the academic session in which the twelfth credit was earned.
- C) Grades from up to two (2) consecutive semesters may be excluded from the regular cumulative GPA calculation.⁴
- D) The student's dean or designee may request documentation confirming the extenuating circumstances with the application for *Academic Forgiveness*.

¹ Rationale: This is the GPA standard to which all students are held in the Academic Dismissal Policy.

² Rationale: This change will accommodate students who do not take traditional full-time semesters.

³ Rationale: This change will accommodate students who do not take traditional full-time semesters.

⁴ Rationale: It is assumed that the negative impact of the extenuating circumstance(s) will be diminished within two semesters.

III. The calculation and reporting of **Academic Fresh Start** or **Academic Forgiveness** GPA and their uses in academic evaluation are:

- A) Academic Fresh Start or Academic Forgiveness deletes nothing from the student's academic record. Grades earned before the Academic Fresh Start or Academic Forgiveness will remain on the transcript along with the cumulative GPA for all hours taken.
- B) The transcript will clearly indicate the starting point of the **Academic Fresh Start**/**Academic Forgiveness** as well as the **Academic Fresh Start**/**Academic Forgiveness** GPA.
- C) University-wide academic policies based on a cumulative GPA generally will use the **Academic Fresh Start** or **Academic Forgiveness** GPA. However, academic programs are not required to use **Academic Fresh Start** or **Academic Forgiveness** GPAs. Some programs, such as those in the graduate school or those leading to teacher licensure, may use all grades for the calculation of the GPA.
- D. In order for students in the **Academic Fresh Start** or **Academic Forgiveness** program to be eligible for university academic honors, they must complete a minimum of 60 hours in residence, with at least 50 hours in graded courses after the **Academic Fresh Start** or **Academic Forgiveness** begins. Other academic policies will not be affected.

IV. Procedures for applying for Academic Fresh Start or Academic Forgiveness are:

- A) A student applies for **Academic Fresh Start** GPA or **Academic Forgiveness** GPA through the deans or their designees of the college in which the student is enrolled.
- B) A student must apply no later than the academic term prior to the one when the degree will be granted. (Students wishing to apply are encouraged to do so as soon as possible after qualifying).
- C) When applying, the student must indicate the point at which he or she wishes the **Academic Fresh Start** or *Academic Forgiveness* GPA to begin.
 - 1. For readmitted students applying for **Academic Fresh Start**, the choices are: the end of the first, second, third, fourth or fifth semester, following the student's initial K-State date of entry.
 - 2. For students who experienced extenuating circumstances and are applying for *Academic Forgiveness*, the semester(s) will be selected in consultation with the deans or their designees.

ATTACHMENT 4

KANSAS STATE UNIVERSITY

ACADEMIC CALENDAR

Fall 2008 through Summer 2013

Fall Semester	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012
First Day of Classes	Aug 25 M	Aug 24 M	Aug 23 M	Aug 22 M	Aug 20 M
University Holiday	Sept 1 M	Sept 7 M	Sept 6 M	Sept 5 M	Sept 3 M
Student Holiday (Fall Break)	Oct 6 M	Oct 5 M	Oct 4 M	Oct 3 M	Oct 1 M
Student Holiday	Nov 26-28 W-F	Nov 25-27 W-F	Nov 24-26 W-F	Nov 23-25 W-F	Nov 21-23 W-F
University Holiday	Nov 27-28 U-F	Nov 26-27 U-F	Nov 25-26 U-F	Nov 24-25 U-F	Nov 22-23 U-F
Last Day of Classes	Dec 12 F	Dec 11 F	Dec 10 F	Dec 9 F	Dec 7 F
Commencement	Dec 12, 13 F, S	Dec 11-12 F, S	Dec 10-11 F, S	Dec 9-10 F, S	Dec 7-8 F, S
First Day of Exams	Dec 15 M	Dec 14 M	Dec 13 M	Dec 12 M	Dec 10 M
Last Day of Exams	Dec 19 F	Dec 18 F	Dec 17 F	Dec 16 F	Dec 14 F
Class Days – Exam Days	75 - 5	75-5	75-5	75-5	75-5
Total Days of week	M-14, T-16, W-15, U- 15, F-15	M-14, T-16, W-15, U-15, F-15	M-14, T-16, W-15, U-15, F-15	M-14, T16, W-15, U-15, F-15	M-14, T16, W-15, U-15, F-15
Spring Semester	Spring 2009	Spring 2010	Spring 2011	Spring 2012	Spring 2013
First Day of Classes	Jan 15 U	Jan 14 U	Jan 13 U	Jan 12 U	Jan 17 U
University Holiday	Jan 19 M	Jan 18 M	Jan 17 M	Jan 16	Jan 21 M
Student Holiday (Spring Break)	Mar 16-20 M-F	Mar 15-19 M-F	Mar 21-25 M-F	Mar 19-23 M-F	Mar 18-22 M-F
Last Day of Classes	May 8 F	May 7 F	May 6 F	May 4 F	May 10 F
First Day of Exams	May 11 M	May 10 M	May 9 M	May 7 M	May 13 M
Last Day of Exams	May 15 F	May 14 F	May 13 F	May 11 F	May 17 F
Commencement	May 15, 16 F, S	May 14, 15 F, S	May 13, 14 F, S	May 11, 12 F-S	May 17-18 F, S
	7	7.5			
Class Days – Exam Days	76 - 5	76-5	76-5	76-5	76-5
Total Days of week	M-14, T-15, W-15, U- 16, F-16	M-14, T-15, W-15, U-16, F-16	M-14, T-15, W-15, U-16, F-16	M-14, T-15, W-15, U-16, F-16	M-14, T-15, W-15, U-16, F-16
Summer Semester	Summer 2009	Summer 2010	Summer 2011	Summer 2012	Summer 2013
	Summer 2007	Summer 2010	Dummer Zoll	Dummer ZV1Z	Summer 2015
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
First Day of 1st 6-wk Class University Holiday	May 26 T	May 24 M	May 23 M	May 21 M	
First Day of 1st 6-wk Class	May 26 T	May 24 M			May 28 T
First Day of 1st 6-wk Class University Holiday First Day of 8-wk /1st 4-wk	May 26 T May 25 M	May 24 M May 31 M	May 23 M May 30 M	May 21 M May 28 M	May 28 T May 27 M
First Day of 1st 6-wk Class University Holiday First Day of 8-wk /1st 4-wk Class Last Day of 1st 4-wk/6-	May 26 T May 25 M June 8 M	May 24 M May 31 M June 7 M	May 23 M May 30 M June 6 M July 1 F	May 21 M May 28 M June 4 M June 29 F	May 28 T May 27 M June 10 M
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First Day of 1st 6-wk Class University Holiday First Day of 8-wk /1st 4-wk Class Last Day of 1st 4-wk/6- wk Class First Day 2nd 4-wk/6-wk Class University Holiday Last Day of 8-wk/2nd 4-wk	May 26 T May 25 M June 8 M July 2 U July 6 M July 3 F	May 24 M May 31 M June 7 M July 2 F July 6 T July 5 M	May 23 M May 30 M June 6 M July 1 F July 5 T July 4 M	May 21 M May 28 M June 4 M June 29 F July 2 M July 4 W	May 28 T May 27 M June 10 M July 5 F July 8 M July 4 U
First Day of 1st 6-wk Class University Holiday First Day of 8-wk /1st 4-wk Class Last Day of 1st 4-wk/6- wk Class First Day 2nd 4-wk/6-wk Class University Holiday Last Day of 8-wk/2nd 4-wk Class	May 26 T May 25 M June 8 M July 2 U July 6 M July 3 F July 31 F	May 24 M May 31 M June 7 M July 2 F July 6 T July 5 M July 30 F	May 23 M May 30 M June 6 M July 1 F July 5 T July 4 M July 29 F	May 21 M May 28 M June 4 M June 29 F July 2 M July 4 W July 27 F	May 28 T May 27 M June 10 M July 5 F July 8 M July 4 U Aug 2 F
First Day of 1st 6-wk Class University Holiday First Day of 8-wk /1st 4-wk Class Last Day of 1st 4-wk/6- wk Class First Day 2nd 4-wk/6-wk Class University Holiday Last Day of 8-wk/2nd 4-wk Class Last Day of 2nd 6-wk Class	May 26 T May 25 M June 8 M July 2 U July 6 M July 3 F July 31 F	May 24 M May 31 M June 7 M July 2 F July 6 T July 5 M July 30 F	May 23 M May 30 M June 6 M July 1 F July 5 T July 4 M July 29 F	May 21 M May 28 M June 4 M June 29 F July 2 M July 4 W July 27 F	May 28 T May 27 M June 10 M July 5 F July 8 M July 4 U Aug 2 F
First Day of 1st 6-wk Class University Holiday First Day of 8-wk /1st 4-wk Class Last Day of 1st 4-wk/6- wk Class First Day 2nd 4-wk/6-wk Class University Holiday Last Day of 8-wk/2nd 4-wk Class Last Day of 2nd 6-wk Class Class days: 8-week class 1st 6-week class	May 26 T May 25 M June 8 M July 2 U July 6 M July 3 F July 31 F Aug 14 F	May 24 M May 31 M June 7 M July 2 F July 6 T July 5 M July 30 F Aug 13 F	May 23 M May 30 M June 6 M July 1 F July 5 T July 4 M July 29 F Aug 12 F	May 21 M May 28 M June 4 M June 29 F July 2 M July 4 W July 27 F Aug 10 F	May 28 T May 27 M June 10 M July 5 F July 8 M July 4 U Aug 2 F Aug 16 F
First Day of 1st 6-wk Class University Holiday First Day of 8-wk /1st 4-wk Class Last Day of 1st 4-wk/6- wk Class First Day 2nd 4-wk/6-wk Class University Holiday Last Day of 8-wk/2nd 4-wk Class Last Day of 2nd 6-wk Class Class days: 8-week class	May 26 T May 25 M June 8 M July 2 U July 6 M July 3 F July 31 F Aug 14 F	May 24 M May 31 M June 7 M July 2 F July 6 T July 5 M July 30 F Aug 13 F	May 23 M May 30 M June 6 M July 1 F July 5 T July 4 M July 29 F Aug 12 F	May 21 M May 28 M June 4 M June 29 F July 2 M July 4 W July 27 F Aug 10 F	May 28 T May 27 M June 10 M July 5 F July 8 M July 4 U Aug 2 F Aug 16 F
First Day of 1st 6-wk Class University Holiday First Day of 8-wk /1st 4-wk Class Last Day of 1st 4-wk/6- wk Class First Day 2nd 4-wk/6-wk Class University Holiday Last Day of 8-wk/2nd 4-wk Class Last Day of 2nd 6-wk Class Class days: 8-week class 1st 6-week class	May 26 T May 25 M June 8 M July 2 U July 6 M July 3 F July 31 F Aug 14 F	May 24 M May 31 M June 7 M July 2 F July 6 T July 5 M July 30 F Aug 13 F	May 23 M May 30 M June 6 M July 1 F July 5 T July 4 M July 29 F Aug 12 F	May 21 M May 28 M June 4 M June 29 F July 2 M July 4 W July 27 F Aug 10 F	May 28 T May 27 M June 10 M July 5 F July 8 M July 4 U Aug 2 F Aug 16 F

N – Sunday, M – Monday, T – Tuesday, W – Wednesday, U – Thursday, F- Friday, S – Saturday

Intersession **	F08 – U09	F09-U10	F10-U11	F11-U12	F12-U13
January Intersession	Dec 29 – Jan 14	Dec 28 – Jan 13	Dec 27 – Jan 12	Dec 27 - Jan 11	Dec 27 - Jan 16
May Intersession	May 18 – June 5	May 17 – Jun 4	May 16 - Jun 3	May 14 - Jun 1	May 20 - Jun 7
August Intersession	Aug 3 – Aug 21	Aug 2 – Aug 20	Aug 1 - Aug 19	July 30 - Aug 17	Aug 5 - Aug 21

These dates are subject to any semester changes in beginning and ending dates.

LEGEND

Dates not highlighted above have been approved by K-State and the Kansas Board of Regents.

Dates highlighted in grey denote calendar dates that were approved by Academic Calendar Committee, and submitted but not yet approved by Faculty Senate.