

**MINUTES**  
**Faculty Senate Academic Affairs**  
**April 6, 2010, 3:30 p.m.**  
**K-State Student Union, Room 204**

Present: Baillargeon, Bennett, Devore, Hornsby, King, Moser, Oliver, Roberts, Spears, Sump  
Absent: Charney and Ganta  
Proxies: DeRouchey  
Guests: Monty Nielsen

1. Barney King, Chair, called the meeting to order at 3:35 pm
2. The March 23, 2010 minutes were approved as submitted. Roberts had a question about the tabled courses and Nielsen thought, from the information he was given by CAPP and the iSIS group, that an identified solution should come in about a month or so.
3. Course and Curriculum Changes
  - A. Undergraduate Education –
    1. A motion was made by Roberts and seconded by Moser to approve the following course and curriculum changes approved by the College of Agriculture on March 23, 2010:

**COURSE CHANGES:**

*Department of Animal Sciences and Industry*

Changes to:

ASI 318 Fundamentals of Nutrition

*Department of Grain Science and Industry*

Add:

GRSC 210 CAD Flow Sheets for Grain Processes

GRSC 310 Materials Handling

GRSC 590 Grain Science Problems

**CURRICULUM CHANGES:**

*Department of Grain Science and Industry*

Changes to BS in Bakery Science & Management – Production Management Option:

FROM:

TO:

<p>Freshman</p> <p><u>1<sup>st</sup> Semester</u></p> <p>BIOL 198 Prin. of Biology.....4</p> <p>CHM 210 Chem I.....4</p> <p>GEN AG 101 Ag. Orientation .....1</p> <p><del>SPCH 106 Public Speaking.....3</del></p> <p>GRSC 101 Intro to GRSC.....3</p> <p style="text-align: right;">TOTAL                   45</p> <p><u>2<sup>nd</sup> Semester</u></p> <p>CHM 230 Chem II.....4</p> <p>ENGL 100 Expos Writing.....3</p> <p>MATH 205 Gen. Calc + Lin. Al.....3</p> <p>ECON 110 Macro Economics.....3</p> <p><del>Free Electives.....3</del></p>	<p>Freshman</p> <p><u>1<sup>st</sup> Semester</u></p> <p>CHEM 210 Chemistry I.....4</p> <p>ECON 110 Principles of Macro Econ.....3</p> <p>ENGL 100 Expo Writing I.....3</p> <p>GENAG 101 Ag Orientation.....1</p> <p>GRSC 101 Introduction to Grain Sci. and Tech.....3</p> <p style="text-align: right;">TOTAL                   14</p> <p><u>2<sup>nd</sup> Semester</u></p> <p>BIOL 198 Principles of Biology.....4</p> <p>CHEM 230 Chemistry II.....4</p> <p>MATH 205 Gen Calc and Lin Algebra.....3</p> <p><u>COMM 105 Public Speaking.....2</u></p> <p>GRSC 150 Principles of Milling.....3</p> <p style="text-align: right;">TOTAL                   16</p>
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TOTAL	16		
<u>Sophomore</u>		<u>Sophomore</u>	
<u>1<sup>st</sup> Semester</u>		<u>1<sup>st</sup> Semester</u>	
AGEC 120 Ag Econ.....	3	AGEC 120 Ag Econ & Ag Bus.....	3
<del>OR</del>		BIOCH 265 or <u>CHEM 350/351</u> .....	5
<u>ECON120 Prin. of Micro</u> .....	3	ENGL 200 Expo Writing II.....	3
PHYS 113 Gen. Physics I.....	4	PHYS 113 General Physics I.....	4
ACCTG 231 Acct. Busi. Ops.....	3	<u>GRSC 210 Flow sheets</u> .....	3
ENGL 200Expos II.....	3	TOTAL	18
Free Electives.....	3		
TOTAL	16		
<u>2<sup>nd</sup> Semester</u>		<u>2<sup>nd</sup> Semester</u>	
BIOCH 265 Biochem.....	5	ACCTG 231 Accounting Bus Opr.....	3
BIOL 455Gen. Micro Biology.....	4	BIOL 455 General Microbiology.....	4
<del>GRSC 110 Flow Sheets</del> .....	2	PHYS 114 General Physics II.....	4
HN 132 Basic Nutrition.....	3	STAT 325 Elementary Statistics.....	3
GRSC 150 Prin. of Milling.....	3	<u>GRSC 310 Material Handling</u> .....	3
TOTAL	17	TOTAL	17
<u>Junior</u>		<u>Junior</u>	
<u>1<sup>st</sup> Semester</u>		<u>1<sup>st</sup> Semester</u>	
FDSCI 607 Food Micro.....	4	AG COM 400 Ag. Bus. Comm.....	3
PHYS 114 Gen. Physics II.....	4	FDSC 607 Food Microbiology.....	4
<u>ENGL 516 Written Comm</u> .....	3	GRSC 635 Bk. Sci. I.....	2
<del>OR</del>		GRSC 636 Bk. Sci Lab 2.....	2
AG COM 400 Ag Bus Comm.....	3	Business Elective.....	3
GRSC 635 Baking Sci. I.....	2	TOTAL	14
GRSC 636 Baking Sci. I Lab.....	2		
<del>Free Electives</del> .....	2		
TOTAL	17		
<u>2<sup>nd</sup> Semester</u>		<u>2<sup>nd</sup> Semester</u>	
GRSC 602 Cereal Sci.....	3	GRSC 602 Cereal Science.....	3
<del>GRSC 701 Practicum</del> .....	1	GRSC 651 Food/Feed Prod Prot.....	4
<del>GRSC 737 Baking Sci. II</del> .....	3	<u>GRSC 601 Practicum</u> .....	1
<del>GRSC 738 Baking Sci. II Lab</del> .....	1	<u>GRSC 637 Bk. Sci. II</u> .....	3
FDSCI 305 Food Processing.....	3	<u>GRSC 638 Bk Sci. II lab</u> .....	1
Business Electives.....	3	FDSCI 305 Food Processing.....	3
TOTAL	14	<u>GRSC 405 Analytical Tech</u> .....	3
		TOTAL	18
<u>Senior</u>		<u>Senior</u>	
<u>1<sup>st</sup> Semester</u>		<u>1<sup>st</sup> Semester</u>	
GRSC 591 Internship.....	2	GRSC 591 Internship.....	2
STAT 325 Statistics.....	3	MGMT 420 MGT Concepts.....	3
GRSC 625 Flour and Dough.....	3	HN 132 Basic Nutrition.....	3
MGMT 420 Mgmt Concept.....	3	Business Electives.....	3
Specialization Electives.....	3	Specialization Electives.....	3
Business Electives.....	3	Free Electives.....	3
TOTAL	17	TOTAL.....	17
<u>2<sup>nd</sup> Semester</u>		<u>2<sup>nd</sup> Semester</u>	
GRSC 540 Eng. Apps in Food.....	3	GRSC 540 Eng. Apps.....	3
GRSC 541 Eng. Apps Lab.....	1	GRSC 541 Eng. Apps. Lab.....	1
GRSC 630 Mgmt Apps.....	3	<u>GRSC 601 Practicum</u> .....	1
GRSC 651 Food/Feed Prod.....	4	GRSC 625 Flour and Dough Testing.....	3
GRSC 670 Bakery Layout.....	1	GRSC 630 Mgmt. Apps.....	3
<del>GRSC 701 Practicum</del> .....	1	GRSC 670 Bakery Layout.....	1
<del>Business Electives</del> .....	3	Business Electives.....	3
TOTAL	16	TOTAL.....	15
<b>Minimum of 128 Credits required for Graduation</b>		<b>Minimum of 129 Credits required for Graduation</b>	
<u>Specialization Electives</u>		<u>Special Electives</u>	
GRSC 610 Elec./Grain Proc.....	3		
GRSC 500 Milling Science I.....	4		

GRSC 745 Fund. of Bioprocessing.....3	GRSC 680 Faculty Lead Study Abroad.....V
<del>GRSC 720</del> Extrusion Proc. Fd & Fd.....4	GRSC 610 Elec./Grain Proc.....3
EDLST 212 Intro to Lead concepts.....3	GRSC 500 Milling Science I.....4
FDSCI 690 HACCP.....2	GRSC 745 Fund of Bioprocessing.....3
GRSC 712 Vib. Spect. Anal.....1	<del>GRSC-620</del> Extrusion Pro. Fd & Fd.....4
GRSC 713 Chromotography.....1	EDLST 212 Intro to Lead Concepts.....3
Business Electives, Production Management Option (9 hrs required)	FDSCI 690 HACCP.....2
ACCTG 241 Acct. for Invest & Fin.....3	GRSC 712 Vib. Spect. Analysis.....1
ACCTG 331 Proc. And Controls.....3	GRSC 713 Chromotography.....1
AGEC 500 Production Economics.....3	<u>Business Electives (9 hours required)</u>
AGEC 515 Food & Agric Bus Mktg .....3	ACCTG 241 Acct. for Inv. & Fin.....3
FINAN 450 Intro to Finance.....3	ACCTG 331 Proc. And Controls.....3
IMSE 501 Industrial Management.....3	AGEC 500 Production Economics.....3
MANGT 300 Intro to TQM.....1	AGEC 515 Food & Ag Bus Mgt.....3
MANGT 530 Industrial Relations.....3	FINAN 450 Intro to Finance.....3
MKTG 400 Marketing.....3	ISME 501 Industrial Management.....3
MKTG 542 Sales Management.....3	MANGT 300 Intro to TQM.....1
	MANGT 530 Industrial Relations .....3
	MKTG 400 Marketing.....3
	MKTG 542 Sales Management.....3

**RATIONALE:** The Department of Grain Science is revising the curriculums in all 3 of its undergraduate degree programs to insure all of its students have at least one common department course in each semester of their freshman and sophomore years. Previously, students were not taking department courses in all semesters of their first 2 years. Thus, this is also a tool to help with retention in the programs. Additionally, the department has developed a list of common “core courses” required in each of its 3 degree programs and aligned them for recommended sequencing in the individual degree curriculum guides.

**IMPACT:** These changes should not affect other units as the major changes and all new classes are for students in the Department of Grain Science and Industry. All courses listed for other units have been previously used as required or elective courses.

**EFFECTIVE DATE:** Fall 2010

B.S. in Feed Science and Management –All Options (Feed Production; Biofuels Production)

FROM:

TO:

<p>FRESHMAN</p> <p><u>1<sup>st</sup> Semester</u></p> <p>GENAG-101 Ag Orientation..... 1            GRSC-101 Intro to Grain Sci..... 3            CHM-210 Chemistry I ..... 4            ENGL-100 Expository Writing I..... 3            MATH-205 Gen. Calc. &amp; Lin. Algebra.....3            TOTAL 14</p> <p><u>2<sup>nd</sup> Semester</u></p> <p>CHM-230 Chemistry II..... 4            BIOL-198 Princ. of Biology ..... 4            AGECE-120 Ag. Econ. &amp; Ag. Bus..... 3            SPCH-105 Public Speaking1A..... 2            Soc.Sci./Hum Electives..... 3            TOTAL 46</p> <p>SOPHOMORE</p> <p>1<sup>st</sup> Semester</p> <p>ENGL-200 Expository Writing II..... 3            ECON-110 Macroeconomics ..... 3  <del>Soc. Sci./Hum Elective ..... 3</del>            Opt A or B ..... 6            TOTAL 45</p> <p>2<sup>nd</sup> Semester</p> <p><del>GRSC-110 Flow Sheets ..... 2</del>            PHYS-113 General Physics I ..... 4            Soc.Sci./Hum Electives..... 3            Opt. A or B ..... 8            TOTAL 47</p> <p>JUNIOR</p> <p>1<sup>st</sup> Semester</p> <p>GRSC-661 Qual. of Food &amp; Feed Ingred..... 3            PHYS-114 General Physics II ..... 4            Free Electives ..... 3            Opt A or B ..... 6            TOTAL 46</p> <p>2<sup>nd</sup> Semester</p> <p>GRSC 405 Analytical Techniques. .... 2            GRSC-510 Feed Technology I ..... 4            Free Electives..... 3            Opt A or B ..... 6            TOTAL 45</p> <p>SENIOR</p> <p>1<sup>st</sup> Semester</p> <p>GRSC-591 Comm. Feed &amp; Food Mfg. Intern..... 2  <del>GRSC-750 Feed Technology II..... 4</del>            GRSC-655 Cereal Food Plant Design/Const..... 3            Opt A or B ..... 6            TOTAL 45</p> <p>2<sup>nd</sup> Semester</p> <p>GRSC-610 Elec. &amp; Cont. Mill. Proc..... 3</p>	<p>FRESHMAN</p> <p><u>1<sup>st</sup> Semester</u></p> <p>GENAG-101 Ag Orientation..... 1            GRSC-101 Intro to Grain Sci..... 3            BIOL-198 Princ. of Biology ..... 4            ENGL-100 Expository Writing I..... 3            Soc.Sci./Hum Electives..... 3            TOTAL 14</p> <p><u>2<sup>nd</sup> Semester</u></p> <p>CHM-210 Chemistry I..... 4            GRSC 150 Principles of Milling ..... 3            MATH-205 Gen. Calc. &amp; Lin. Algebra..... 3            COMM-105 Public Speaking1A..... 2            ECON-110 Macroeconomics ..... 3            TOTAL 15</p> <p>SOPHOMORE</p> <p>1<sup>st</sup> Semester</p> <p>CHM-230 Chemistry II..... 4  <u>GRSC-210 Flow Sheets ..... 3</u>            AGECE-120 Ag. Econ. &amp; Ag. Bus..... 3            ENGL-200 Expository Writing II..... 3            PHYS-113 General Physics I ..... 4            TOTAL 17</p> <p>2<sup>nd</sup> Semester</p> <p><u>GRSC-310 Material Handling ..... 3</u>            PHYS-114 General Physics II ..... 4            BIOCH 256 or CHEM 350/351..... 5            STAT-325 Introduction to Statistics..... 3            Soc.Sci./Hum Electives..... 3            TOTAL 18</p> <p>JUNIOR</p> <p>1<sup>st</sup> Semester</p> <p><u>GRSC-510 Feed Technology I ..... 4</u>  <u>BIOL-455 General Microbiology ..... 4</u>            ACCTG-231 Acctg. Bus Options..... 3            Free Electives ..... 3            Opt A or B ..... 3            TOTAL 17</p> <p>2<sup>nd</sup> Semester</p> <p>GRSC-651 Fd &amp; FD Prod Protection ..... 4  <u>GRSC-690 Feed Technology II..... 4</u>            GRSC-661 Qual. of Food &amp; Feed Ingred..... 3            Free Electives..... 3            Opt A or B ..... 3            TOTAL 17</p> <p>SENIOR</p> <p>1<sup>st</sup> Semester</p> <p>GRSC-591 Comm. Feed &amp; Food Mfg. Intern..... 2            GRSC-655 Cereal Food Plant Design/Const..... 3            Opt A or B ..... 9            TOTAL 14</p> <p>2<sup>nd</sup> Semester</p> <p>GRSC-610 Elec. &amp; Cont. Mill. Proc..... 3</p>
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GRSC-630 Mgmt Applications..... 3	GRSC-630 Mgmt Applications.....3
GRSC-651 Fd & FD Prod Protection .....4	Opt A or B ..... <u>9</u>
Opt A or B ..... <u>6</u>	TOTAL ..... <u>15</u>
TOTAL 46	
Minimum hours required for graduation: 124	Minimum hours required for graduation: 127
<b>OPTION A - FEED PRODUCTION</b>	<b>OPTION A - FEED PRODUCTION</b>
<b>Required Courses (<del>20 hours</del>) + 18 hours from</b>	<b>Required Courses (13 hours) + 11 hours from</b>
<b>Specialization Electives List</b>	<b>Specialization Electives List</b>
AGEC-420 Comm Futures Marketing ..... 3	<u>GRSC- 620 Extrusion Proc. Fd &amp; Fd Ind..... 4</u>
STAT-325 Introduction to Statistics ..... 3	AGEC-420 Comm Futures Marketing ..... 3
ENGL-516 Written Comm. for Sciences..... 3	ENGL-516 Written Comm. for Sciences..... 3
ACCTG-231 Acctg. Bus Options..... 3	ASI-318 Fundamentals of Nutrition ..... 3
ASI-318 Fundamentals of Nutrition ..... 3	Specialization Electives ..... <u>11</u>
BIOCH-265 Intro Org Biochem*** ..... 5	
or	
CHM-350/351 General Organic Chemistry w/lab ....5	
Specialization Electives ..... <u>18</u>	
<b>OPTION B - BIOFUELS PRODUCTION</b>	<b>OPTION B - BIOFUELS PRODUCTION</b>
<b>Required Courses (<del>34 hours</del>) + 4 hours from</b>	<b>Required Courses (19 hours) + 5 hours from Specialization</b>
<b>Specialization Electives List</b>	<b>Electives List</b>
AGEC-420 Comm Futures Marketing ..... 3	AGEC-420 Comm Futures Marketing..... 3
STAT-325 Introduction to Statistics ..... 3	ENGL-516 Written Comm. for Sciences ..... 3
ENGL-516 Written Comm. for Sciences ..... 3	ASI-318 Fundamentals of Nutrition..... 3
ACCTG-231 Acctg. Bus Options..... 3	ATM 545 Production & Storage of Grains... ..3
ASI-318 Fundamentals of Nutrition..... 3	GRSC-540 Engg Apps Grain/Food Products .....3
ATM 545 Production & Storage of Grains... ..3	GRSC-541 Engg Apps Grain/Food Products Lab...1
BIOCH-265 Intro Org Biochem..... 5	GRSC-745 Fundamentals of Bioprocessing .....3
<del>BIOL-455 Gen Microbiology (w/ lab).....4</del>	Specialization Electives..... <u>5</u>
GRSC-540 Engg Apps Grain/Food Products .....3	
GRSC-541 Engg Apps Grain/Food Products Lab.....1	
GRSC-745 Fundamentals of Bioprocessing .....3	
Specialization Electives..... <u>4</u>	
<b>SPECIALIZATION ELECTIVES</b>	<b>SPECIALIZATION ELECTIVES</b>
<del>GENAG-390 Ag- Employment.....1</del>	<u>GRSC-590 Grain Science Problem ..... 1-3</u>
<del>GRSC-720 Extrusion Proc. Fd &amp; Fd Ind..... 4</del>	<u>GRSC- 691 Faculty-Led Study Abroad ..... 1-3</u>
<del>GRSC-785 Advanced Flour &amp; Feed Tech .....3</del>	AGEC-410 Ag Policy..... 3
<del>GRSC-790 Grain Science Problems..... 2-3</del>	AGEC-515 Ag-bus. Marketing..... 3
AGEC-410 Ag Policy..... 3	ECON-631 Princ. Trans..... 3
AGEC-515 Ag-bus. Marketing..... 3	AGEC-632 Ag-bus. Logistics..... 3
ECON-631 Princ. Trans..... 3	ASI-320 Princ. Feeding..... 3
AGEC-632 Ag-bus. Logistics..... 3	ACCTG-241 Acctg. Invest.&Finance..... 3
ASI-320 Princ. Feeding..... 3	ACCTG-331 Acctg. Proc & Controls..... 3
ACCTG-241 Acctg. Invest.&Finance..... 3	FINAC-450 Intro to Finance..... 3
ACCTG-331 Acctg. Proc & Controls..... 3	MANGT-390 Business Law I..... 3
FINAC-450 Intro to Finance..... 3	MANGT-420 Manag. Concepts..... 3
MANGT-390 Business Law I..... 3	MANGT-530 Ind & Labor Relations..... 3
MANGT-420 Manag. Concepts..... 3	MANGT-531 Pers & Hum Res Mgt..... 3
MANGT-530 Ind & Labor Relations..... 3	MANGT-630 Labor Rel Law ..... 3
MANGT-531 Pers & Hum Res Mgt..... 3	IMSE-501 Industrial Management..... 3
MANGT-630 Labor Rel Law ..... 3	ASI-500 Genetics..... 3
IMSE-501 Industrial Management..... 3	BIOCH-521 General Biochemistry..... 3
ASI-500 Genetics..... 3	
BIOCH-521 General Biochemistry..... 3	

**RATIONALE:**

The Department of Grain Science is revising the curriculums in all 3 of its undergraduate degree program to insure all of its students have at least one common department course in each semester of their freshman and sophomore years. Previously, students were not taking department courses in all semesters of their first 2 years. Thus, this is also a tool to help with retention in the programs. Additionally, the department has developed a list of

common “core courses” required in each of its 3 degree programs and aligned them for recommended sequencing in the individual degree curriculum guides.

IMPACT: These changes should not affect other units as the major changes and all new classes are for students in the Department of Grain Science and Industry. All courses listed for other units have been previously used as required or elective courses.

EFFECTIVE DATE: Fall 2010

B.S. in Milling Science & Management – Chemistry Option

FROM: TO:

<p>FRESHMAN</p> <p><u>1<sup>st</sup> Semester</u>            GEN AG 101 Ag Orientation.....1            GRSC 150 Principles of Milling.....3            ENGL 100 Exp. Writing I.....3            CHEM 210 Chemistry I.....4            *ECON 110 Prin. Macro Econ.....3            TOTAL 14</p> <p><u>2<sup>nd</sup> Semester</u>            *CHM 230 Chemistry II.....4  <del>GRSC 110 Flow Sheets.....2</del>            BIOL 198 Principle of Biology.....4            SPCH 105 Public Speaking IA.....2            Soc. Science Electives.....3            TOTAL 15</p> <p>SOPHOMORE</p> <p><u>1<sup>st</sup> Semester</u>            AGECE 120 Ag. Econ. &amp; Ag. Bus.....3            ENGL 200 Exp. Writing II.....3            CHM 350 Gen. Organic Chemistry.....3            CHM 351 Gen. Organic Chemistry Lab.....2            Soc. Science Electives.....3            Opt. A, B or C.....4            TOTAL 18</p> <p><u>2<sup>nd</sup> Semester</u>            GRSC 500 Milling Sci. I.....4            BIOL 455 Gen. Micro.....4            *STAT 325 Elem. Stat.....3            Opt. A, B or C.....4            TOTAL 15</p> <p>JUNIOR</p> <p><u>1<sup>st</sup> Semester</u>            AGRON 340 Grain Grading.....2            GRSC 602 Cereal Sci.....3  <del>GRSC 730 Milling Science II Lec.....2</del>  <del>GRSC 731 Milling Science II Lab.....2</del></p>	<p>FRESHMAN</p> <p><u>1<sup>st</sup> Semester</u>            CHEM 210 Chemistry I.....4            ENGL 100 Expo Writing I.....3            GENAG 101 Ag Orientation.....1  <del>GRSC 101 Intro. to Grain Sci. and Tech.....3</del>            Social Science Elective.....3            TOTAL 14</p> <p><u>2<sup>nd</sup> Semester</u>            BIOL 198 Principles of Biology.....4            CHEM 230 Chemistry II.....4            ECON 110 Principles of Macro Econ.....3            GRSC 150 Principles of Milling.....3            MATH 220 Calculus I.....4            TOTAL 18</p> <p>SOPHOMORE</p> <p><u>1<sup>st</sup> Semester</u>            AGECE 120 Ag Econ &amp; Ag Bus.....3            AGRON 340 Grain Grading.....2            COMM 105 Public Speaking.....2            ENGL 200 Expo Writing II.....3  <del>GRSC 210 Flow sheets.....3</del>            PHYS 113 General Physics I.....4            TOTAL 17</p> <p><u>2<sup>nd</sup> Semester</u>            CHEM 350/351 General Organic Chem.....5            GRSC 310 Material Handling.....3            GRSC 500 Milling Science I.....4            PHYS 114 General Physics II.....4            TOTAL 16</p> <p>JUNIOR</p> <p><u>1<sup>st</sup> Semester</u>            BIOL 455 General Microbiology.....4            STAT 325 Elementary Statistics.....3            GRSC 602 Cereal Science.....3  <del>GRSC 680 Milling Science II Lec.....2</del></p>
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Opt. A, B, or C.....	8
TOTAL	47
<u>2<sup>nd</sup> Semester</u>	
GRSC 405 Cer./ Feed Anal.....	2
GRSC 630 Mgmt. App Gr. Proc. ....	3
Soc. Science Electives.....	3
*Free Elective.....	3
Opt. A, B or C.....	6
TOTAL	47

SENIOR

1<sup>st</sup> Semester

GRSC 625 Flour and Dough Testing.....	3
GRSC 635 Bake Sci. I.....	2
GRSC 636 Bake Sci. I Lab.....	2
Opt. A, B or C.....	8
TOTAL	15

2<sup>nd</sup> Semester

GRSC 651 Fd. Fd. Prod. Prot.....	4
GRSC 734 Mill Proc. Tech Mgmt.....	3
GRSC 610 Elec/Grain Proc. Ind.....	3
Opt. A, B or C.....	8
TOTAL	48

Minimum Requirement number of hours is: 129

Specialization Electives

**OPTION C (Chemistry) REQUIRED COURSES**

BIOCH 521 Gen. Biochem.....	3
BIOCH 522 Gen. Biochem. Lab.....	2
CHM 500 Gen. Phys. Chem. ....	3
CHM 531 Org. Chem. I.....	3
CHM 532 Org. Chem. I Lab.....	2
CHM 550 Org. Chem. II.....	3
MATH 220 Anal Geom. & Calc. I.....	4
MATH 221 Anal Geom. & Calc. II.....	4
PHYS 213 Eng. Phys. I.....	5
PHYS 214 Eng. Phys. II.....	5
Specialization Electives.....	3

**SPECIALIZATION ELECTIVES**

GRSC 712 Vibrational Spect. Analysis.....	1
GRSC 713 Chromatography <sup>†</sup> .....	1
GRSC 720 Extrusion Proc. in the Fd & Fd.....	4
GRSC 745 Fund. of Bioprocessing.....	3
ACCTG 331 Actg Proc. & Cont.....	4
AGEC 513 Ag Finance.....	3
AGEC 515 Food & Agri. Bus. Mktg.....	3
AGEC 632 Agri. Bus. Logic.....	3
ENGL 516 Writ. Comm. for the Sciences.....	3
MANGT 390 Bus. Law I.....	3
MANGT 420 Mgmt. Conc.....	3
MANGT 530 Ind. Labor Relations.....	3
MANGT 531 Pers. & Human Resources Mgmt.....	3
SPCH 311 Bus & Prof. Speaking.....	3

† Chemistry Option students

GRSC 681 Milling Science II Lab.....	2
BIOCH 521/522 Gen. Biochem.....	5
TOTAL	19

2<sup>nd</sup> Semester

ACCTG 231 Accounting Bus Opr.....	3
CHEM 500 Gen Phys Chem.....	3
GRSC 712/713 Vib. Spect. & Chrom.....	2
GRSC 651 Food/Feed Prod Prot.....	4
Social Science Elective.....	3
TOTAL	15

SENIOR

1<sup>st</sup> Semester

GRSC 625 Flour and Dough Testing.....	3
GRSC 635/36 Bake Science I.....	4
GRSC 684 Mill Proc. Tech. Mgmt.....	3
CHEM 531/532 Organic Chem.....	5
TOTAL	15

2<sup>nd</sup> Semester

GRSC 630 Mgmt Appl Grain Proc Ind.....	3
CHEM 550 Organic Chem.....	3
Free Elective.....	3
Social Science Elective.....	3
Specialization Elective.....	3
TOTAL	15

Minimum Requirement number of hours is: 129

**Specialization Electives**

ACCTG 241 Acctg. Invest. and Finan.....	3
ACCTG 331 Acctg. Proc & Cont.....	4
AGEC 318 Food & Agribus Mangt.....	3
AGEC 420 Comm Futures Mrkt.....	3
AGEC 513 Ag Finance.....	3
AGEC 515 Food & Agric Bus Marketing.....	3
AGEC 520 Market Fund & Ftr Op Trad.....	3
AGEC 632 Agri Bus Logic.....	3
CHEM 371 Chemical Analysis.....	4
ENGL 516 Written Comm. For Sci.....	3
GRSC 620 Extrusion proc Fd & Fd.....	4
GRSC 691 Faculty Led Study Abroad.....	1-3
GRSC 745 Fund. Bioprocessing.....	3
MANGT 390 Bus law I.....	3
MANGT 420 Mgmt Conc.....	3
MANGT 530 Ind. Labor Relations.....	3
MANGT 531 Pers & Human Res. Man.....	3
SPCH 311 Bus & Prof. Speaking.....	3

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**RATIONALE:** The Department of Grain Science is revising the curriculums in all 3 of its undergraduate degree program to insure all of its students have at least one common department course in each semester of their freshman and sophomore years. Previously, students were not taking department courses in all semesters of their first 2 years. Thus, this is also a tool to help with retention in the programs. Additionally, the department has developed a list of common “core courses” required in each of its 3 degree programs and aligned them for recommended sequencing in the individual degree curriculum guides.

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**EFFECTIVE DATE:** Fall 2010

B.S. in Milling Science & Management – Operations Option; Management Option

Proposal to Drop the Management Option  
 Proposal to Change the Operations Option

**FROM:**

**TO:**

<p>FRESHMAN</p> <p><u>1<sup>st</sup> Semester</u></p> <p>GEN AG 101 Ag Orientation.....1          GRSC 150 Principles of Milling.....3          ENGL 100 Exp. Writing I.....3          CHEM 210 Chemistry I.....4          *ECON 110 Prin. Macro Econ.....3          TOTAL 14</p> <p><u>2<sup>nd</sup> Semester</u></p> <p>*CHM 230 Chemistry II.....4  <del>GRSC 110 Flow Sheets.....2</del>          BIOL 198 Principle of Biology.....4          SPCH 105 Public Speaking IA.....2          Soc. Science Electives.....3          TOTAL 15</p> <p>SOPHOMORE</p> <p><u>1<sup>st</sup> Semester</u></p> <p>AGEC 120 Ag. Econ. &amp; Ag. Bus.....3          ENGL 200 Exp. Writing II.....3</p>	<p>FRESHMAN</p> <p><u>1<sup>st</sup> Semester</u></p> <p>CHEM 210 Chemistry I.....4          ENGL 100 Expo Writing I .....3          GENAG 101 Ag Orientation.....1  <u>GRSC 101 Intro. to Grain Sci. and Tech.....3</u>          Social Science Elective .....3          TOTAL 14</p> <p><u>2<sup>nd</sup> Semester</u></p> <p>BIOL 198 Principles of Biology .....4          CHEM 230 Chemistry II.....4          ECON 110 Principles of Macro Econ.....3          GRSC 150 Principles of Milling .....3          MATH 220 Calculus I.....4          TOTAL 18</p> <p>SOPHOMORE</p> <p><u>1<sup>st</sup> Semester</u></p> <p>AGEC 120 Ag Econ &amp; Ag Bus.....3</p>
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CHM 350 Gen. Organic Chemistry.....	3
CHM 351 Gen. Organic Chemistry Lab.....	2
Soc. Science Electives.....	3
Opt. A, B or C.....	4
TOTAL	14
<u>2<sup>nd</sup> Semester</u>	
GRSC 500 Milling Sci. I.....	4
BIOL 455 Gen. Micro.....	4
*STAT 325 Elem. Stat.....	3
Opt. A, B or C.....	4
TOTAL	15
JUNIOR	
<u>1<sup>st</sup> Semester</u>	
AGRON 340 Grain Grading.....	2
GRSC 602 Cereal Science.....	3
GRSC 730-Milling Science II Lec.....	2
GRSC 731-Milling Science II Lab.....	2
Opt. A, B, or C.....	8
TOTAL	17
<u>2<sup>nd</sup> Semester</u>	
GRSC 405 Cer./ Feed Anal.....	2
GRSC 630 Mgmt. App Gr. Proc.....	3
Soc. Science Electives.....	3
*Free Elective.....	3
Opt. A, B or C.....	6
TOTAL	17
SENIOR	
<u>1<sup>st</sup> Semester</u>	
GRSC 625 Flour and Dough Testing.....	3
GRSC 635 Bake Sci. I.....	2
GRSC 636 Bake Sci. I Lab.....	2
Opt. A, B or C.....	8
TOTAL	15
<u>2<sup>nd</sup> Semester</u>	
GRSC 651 Fd. Fd. Prod. Prot.....	4
GRSC 734-Mill Proc. Tech Mgmt.....	3
GRSC 610 Elec/Grain Proc. Ind.....	3
Opt. A, B or C.....	8
TOTAL	18
Minimum Requirement number of hours is: 129	
<b><u>OPTION A (Management) REQUIRED COURSES</u></b>	
*ACCTG 231 Acctg. Bus. Operations.....	3
*ACCTG 241 Acctg. For Invest, & Finan.....	3
AGEC 318 Food & Agribusiness Management.....	3
*AGEC 420 Commodity Futures Mkts.....	3
AGEC 520 Market Fund & Ftr Op Trad.....	3
MATH 205 Gen. Calc. & Lin. Alg.....	3

AGRON 340 Grain Grading.....	2
COMM 105 Public Speaking.....	2
ENGL 200 Expo Writing II.....	3
GRSC 210 Flow Sheets.....	3
PHYS 113 General Physics I.....	4
TOTAL	17
<u>2<sup>nd</sup> Semester</u>	
BIOCH 265 Intro. Organic and Biochem.....	5
GRSC 310 Material Handling.....	3
GRSC 500 Milling Science I.....	4
PHYS 114 General Physics II.....	4
TOTAL	16
JUNIOR	
<u>1<sup>st</sup> Semester</u>	
BIOL 455 General Microbiology.....	4
STAT 325 Elementary Statistics.....	3
GRSC 602 Cereal Science.....	3
GRSC 680 Milling Science II Lec.....	2
GRSC 681 Milling Science II Lab.....	2
GRSC 656 Pneumatic Conv.....	2
TOTAL	16
<u>2<sup>nd</sup> Semester</u>	
ACCTG 231 Accounting Bus Opr.....	3
GRSC 405 Food&Feed Analysis.....	2
GRSC 540/41 Engl Appl. Grain/Food Pro.....	4
GRSC 651 Food/Feed Prod Prot.....	4
Social Science Elective.....	3
TOTAL	16
SENIOR	
<u>1<sup>st</sup> Semester</u>	
GRSC 625 Flour and Dough Testing.....	3
GRSC 635/36 Bake Science I.....	4
GRSC 655 Cer. Food Plant Design.....	3
GRSC 684 Mill Proc. Tech. Mgmt.....	3
Specialization Elective.....	5
TOTAL	18
<u>2<sup>nd</sup> Semester</u>	
GRSC 630 Mgmt Appl Grain Proc Ind.....	3
GRSC 610 Elec/Grain Proc. Ind.....	3
GRSC 640 Advanced Flowsheets.....	2
Free Elective.....	3
Social Sci Elective.....	3
TOTAL	14
Minimum Requirement number of hours is: 129	

PHYS 113 Gen Physics I.....	4	
PHYS 114 Gen. Physics II.....	4	
Specialization Electives.....	11	
<b><u>OPTION B (Operations) REQUIRED COURSES</u></b>		
GRSC 540 Engr. App. in Food/Grain Processing.....	3	
GRSC 541 Engr. App. In Grain/Food Processing Lab.....	1	
GRSC 640 Adv. Flow Sheets.....	2	
GRSC 655 Cereal Food Plant Design & Const .....	3	
<del>GRSC 785 Advanced Flow and Feed Tech.....</del>	<del>3</del>	
MATH 220 Anal. Geom. & Calc. I.....	4	
MATH 221 Anal. Geom. & Calc. II.....	4	
PHYS 213 Engr. Phys. I.....	5	
PHYS 214 Engr. Phys. II.....	5	
Specialization Electives.....	7	
<b><u>SPECIALIZATION ELECTIVES</u></b>		
GRSC 712 Vibrational Spect. Analysis .....	1	
GRSC 713 Chromatography <sup>†</sup> .....	1	
<del>GRSC 720</del> Extrusion Proc. in the Fd & Fd.....	<del>4</del>	
GRSC 745 Fund. of Bioprocessing.....	3	
ACCTG 331 Acttg Proc. & Cont.....	4	
AGEC 513 Ag Finance.....	3	
AGEC 515 Food & Agri. Bus. Mktg.....	3	
AGEC 632 Agri. Bus. Logic.....	3	
ENGL 516 Writ. Comm. for the Sciences.....	3	
MANGT 390 Bus. Law I.....	3	
MANGT 420 Mgmt. Conc.....	3	
MANGT 530 Ind. Labor Relations.....	3	
MANGT 531 Pers. & Human Resources Mgmt.....	3	
*SPCH 311 Bus & Prof. Speaking.....	3	
† Chemistry Option students		
		<b><u>Specialization Electives</u></b>
		ACCTG 241 Acctg. Invest. and Finan.....
		ACCTG 331 Acctg. Proc & Cont.....
		AGEC 318 Food & Agribus Mangt.....
		AGEC 420 Comm Futures Mkts .....
		AGEC 513 Ag Finance.....
		AGEC 515 Food & Agric Bus Marketing.....
		AGEC 520 Market Fund & Ftr Op Trad.....
		AGEC 632 Agri Bus Logic.....
		<u>CHEM 371 Chemical Analysis.....</u>
		ENGL 516 Written Comm. For Sci.....
		<u>GRSC 620</u> Extrusion Proc. in the Fd & Fd .....
		<u>GRSC 691</u> Faculty Led Study Abroad.....
		GRSC 712 Vib. Spect. Anal.....
		GRSC 713 Chromatography.....
		GRSC 745 Fund. Bioprocessing.....
		MANGT 390 Bus law I .....
		MANGT 420 Mgmt Conc.....
		MANGT 530 Ind. Labor Relations .....
		MANGT 531 Pers & Human Res. Man.....
		SPCH 311 Bus & Prof. Speaking.....

**RATIONALE:** The Department is dropping its Management Option in the Milling Science and Management degree program and retaining its Operations and Chemistry Options. Students entering the program will now have a choice of 2 options instead of 3. This decision was based on evaluation of knowledge and skills needed by graduates based on graduate and employer feedback. These changes have little or no effect outside the department.

The Department of Grain Science is also revising the curriculums in all 3 of its undergraduate degree program to insure all of its students have at least one common department course in each semester of their freshman and sophomore years. Previously, students were not taking department courses in all semesters of their first 2 years. Thus, this is also a tool to help with retention in the programs. Additionally, the department has developed a list of common “core courses” required in each of its 3 degree programs and aligned them for recommended sequencing in the individual degree curriculum guides.

**IMPACT:** These changes should not affect other units as the major changes and all new classes are for students in the Department of Grain Science and Industry. All courses listed for other units have been previously used as required or elective courses. Letters have been sent to the departments of Chemistry (Dr. Eric Maatta), Biochemistry (Dr. Michael Kanost) and Physics (Dr. Dean Zollman) advising them of the changes between required and elective classes.

**EFFECTIVE DATE:** Fall 2010

Motion carried. King briefly mentioned, just as information only at this point in connection with curriculum changes, that there was a discussion this morning at the Dean's Round Table meeting about instituting a credit hour minimum and maximum for degree programs.

4. Graduation list items; posthumous degree – A motion was made by Moser and seconded by Roberts to approve the following posthumous degree:

Posthumous degree request, May 2010:

David Sewell, Bachelor of Science, College of Education

Background: Mr. Sewell was a high quality individual and a popular student; he was in good standing academically at the time of his death on August 8, 2009.

Motion carried.

5. Reports

- A. Student Senate – Annie Oliver

Vice President Elect Annie Oliver visited. After introduction, she mentioned this week a new speaker of the student senate will be elected. Turnover will take place on April 8<sup>th</sup>.

6. New Business

- A. Honorary Degrees – **Attachment 1**

King began with giving a little background on this proposal. Currently honorary degrees are not allowed by Board of Regents institutions in Kansas. President Schulz would like to pursue having this approved through Faculty Senate and then moving it forward to the Kansas Board of Regents. King wanted to first discuss the concept of honorary degrees and get the thoughts of committee members before reviewing the proposal. Hornsby commented he felt this is a common practice among universities throughout the country. Bennett also noted that traditionally these are given for such things as philanthropic activity and in this case those traditional reasons are not being considered. It was noted in the proposal this does not need to be an annual occurrence. It was asked – what is the up side for us, as a university? Committee members would appreciate seeing more of the logistics of why we want to offer this. What are the strategic reasons to offer the degree if not for the traditional reasons? Committee members want to be certain it will be of benefit rather than cause a negative effect. If being offered to have a prominent individual, etc, give a commencement speech, then it poses the problem of causing one commencement ceremony to be highly attended, whereas others would suffer in attendance due to that. Perhaps there would be a unified commencement? King thanked committee members for their comments and will pursue getting additional information from President Schulz.

7. Announcement

- A. Chair for Academic Affairs 2010-2011 academic year

At a past meeting King indicated his candidacy for the President Elect position of Faculty Senate. Therefore, new leadership will be needed in Academic Affairs. The election for Academic Affairs chair will need to take place no later than the first May meeting. Please be considering this position.

8. For the good of the University

The Annual Faculty and Unclassified Retiree Reception will be held on April 20, 2010 at 4 pm in the Alumni Center Ballroom. Due to this event the next Academic Affairs meeting, on April 20, will begin at 2:30 p.m. Also, Ms. Becker will need someone to take the minutes for that meeting in her place as she will be organizing arrangements for that afternoon.

Hornsby announced that on April 23, 2010 at 1:30 p.m. in the Union the finals for “The Next Big Thing” will be held. This involves students from all over campus.

9. The meeting was adjourned at 4:10 pm.

Next meeting: April 20, 2010; **2:30 p.m.**; Room – **Union 204**

**Retiree Reception at 4:00 p.m. in the Alumni Center Ballroom**