

**MINUTES**  
**KSU Faculty Senate Meeting**  
**Tuesday, May 11, 2010 3:30 pm**  
**K-State Union, Big 12 Room**

Present: Allen, Arthaud-Day, Askey, Baillargeon, Bennett, Blair, Blakeslee, Bontrager, Bormann, Boyer, Cates, Cauble, Charney, Condia, Cox, Davis, Devore, Diaz de Sabates, Dille, Dodd, Easton, Eckels, Fairchild, Featherstone, Flaming Jackson, Frieman, Garcia, Gehrt, Goins, Gould, Graham, Grinter, Guzek, Haub, Hoag, Hohn, Holcombe, Hornsby, Hossain, Hsu, Hubler, Hughey, Johannes, Keen, Keller, Kerby, King, Kirkham, Knackendoffel, Knopp, LeHew, Maatta, Martinez-Ortiz, Martini, Michie, Moser, Nechols, Nichols, Pahwa, Potts, Ransom, Reeck, Reed, Reynolds, Rintoul, Roberts, Rogers, Ross, Satterfield, Schapaugh, Schmidt, Schultz, Smith, Soldan, Spears, Stadlander, Starkey, Stewart, Sump, Unruh, Urton, Van Horn, Vontz, Weaver, Young, Zajac, and Zhang

Absent: Bloodgood, Brigham, Clark, DeRouchey, Fallin, Finkeldei, Fox, Ganta, Harper, Honey, Lynn-Sherow, Nagaraja, Oliver, Raine, Sachs, Schermerhorn, Staggenborg, Turnley, Watts

Proxies: Collins, Condia (part of meeting), Donnelly, Garcia (part of meeting), Glymour, Kellett, Michie (part of meeting), Miller, Nafziger, Patell, Reese, Willbrant

Visitors: Ruth Dyer, Ellen Reynolds

1. President LeHew called the meeting to order at 3:37 pm.
2. The April 13, 2010 minutes were approved as submitted.
3. Approval of Consent Agenda – Betsy Cauble
  - A. Consent Agenda – Pages 2-12 (**including attachment 1**)

President-elect Cauble asked if there were any items on the consent agenda that need to be moved to the discussion agenda. Hearing none, Cauble moved to approve the consent agenda. Motion passed.
4. Report from Standing Committees and Student Senate
  - A. Academic Affairs Committee – Barney King

King reported that all action items for Academic Affairs were included on the consent agenda. Department heads have been asked to review the tagging for K-State 8 and so far 40% of the departments have responded with no reported issues to the tagging. Askey asked if K-State 8 will be implemented in fall of 2011. King responded yes but still lots of work to complete. Rintoul asked about assessment. King reported that the assessment piece was sent back to the committee for further review and was not sure how quickly a response would be submitted. Rintoul asked if tagging would be approved without the assessment component completed. King replied yes and that the tagging has been delinked from assessment because of computer time related to K-State 8. Hubler expressed her hope that the catalog will report the K-State 8 category for each course. Ellen Reynolds reported that the on-line catalog will link category to course. Keen asked about the process working in the future as new courses are added. Cauble noted that it will go back through Academic Affairs then to Faculty Senate.
  - B. Faculty Affairs Committee – Judy Hughey/Kaleen Knopp
    1. Modified Instructional Duties, action item – **Attachment 2**

Hughey expressed her appreciation to Dr. Ruth Dyer for her attendance at the Faculty Senate meeting. LeHew noted that she had received questions regarding the proposed policy and thought it would be helpful for Dyer to attend the meeting to respond to questions. Hughey provided background to the development of the policy. Several years ago Faculty Affairs was asked to address the issue of inconsistencies of maternity leave between colleges and departments. Faculty Affairs worked with the Provost Office who then developed the Modified Instructional Duties document with some modification from Faculty Affairs. Hughey moved that the Modified Instructional Duties policy be approved. Askey expressed her disappointment in the policy and is concerned that the policy puts the department head in

the middle of supporting the faculty and the individual requesting the modified work duties. Condia asked the destination of the policy. Hughey noted it will be included in the University Handbook, most likely Section D. Hubler expressed her agreement for the need of the policy and then asked if this policy treated faculty consistently as those faculty working toward tenure that may be granted course relief to spend more time doing research. She was not aware that the Dean or Provost would approve those modified duties. Dyer responded that in terms of this policy the reason for the Dean and Provost's involvement is to address the cases where department heads have not been very supportive and to be sure there is appropriate oversight. Dodd asked about data collection by the Provost Office for the number of individuals who request modified duties and the number that are granted accommodation. A report could be developed and submitted to Faculty Senate that shows if the departments are able to accommodate faculty. Dyer responded that they could collect the data and reiterated the importance of having the data available. The Provost Office is already doing something similar with tracking the tenure clock for faculty dealing with a range of family issues where they cannot meet the tenure requirements. Vontz thinks this is a step in the right direction but is not sure how the unit/department/program's responsibilities can be met without additional resources. Dyer responded that all the duties and responsibilities of faculty on sabbatical leave are absorbed by other faculty. She reiterated that this is not leave but the individual is assigned other duties. The responsibilities they are changing are their instructional duties where other faculty will need to absorb their courses. Team teaching can also be an option, to accommodate this issue. The faculty may be given more research or developmental duties and they maintain their full-time employment. Eckels asked if there is a formal definition in the handbook for full-time faculty. Dyer and Hughey both responded yes. Hornsby expressed his support for a modified work force but asked how do departments manage more than two faculty requesting modified duties at the same time. Dyer described her experience where three faculty members were accommodated and their department complied, but it wasn't easy. It is done in the spirit of collegiality. Easton expressed his concern that the department heads may not allow faculty the flexibility. Hughey reported that is why there is the appeal process. Hubler expressed her belief if faculty are allowed flexibility of duties, it is in the best interest of the department. Research cites that women have difficulty balancing work and family. It is in the best interest of the university to have a policy that allows better balance between work and home. Vontz expressed his support for the policy and wants to be clear that faculty recognize this as an important condition and that faculty will shoulder the extra instructional duties for their colleagues. Askey agrees with Vontz but it is also her concern that faculty are being asked to do more and more with less. It is important that this is a university policy to create a family friendly environment. Blair asked about the definition of immediate family and how the definition will be developed. She expressed her concern that we do not exclude same sex partners. Dyer responded that we have the opportunity to develop our own definition that would be more inclusive. The policy will need to be approved by the Board of Regents. Hughey expressed her opinion that we can pass the policy with the understanding that the definition of immediate family can be developed through the implementation process. The Deans have already reviewed and approved the policy. Nechols asked if there is a long term plan for central administration to create a funding pool to assist certain departments with resource issues. Dyer reported that resources was a discussion item with the Deans but with so many competing priorities they decided to move forward with the hope of identifying financial resources in the near future. Potts expressed concern that a Dean may not be supportive. Dyer responded that is why the Provost is included in the appeal process. Diaz de Sabates asked about inputting stronger language if department heads were not cooperative or supportive of the policy. Dyer noted that administration would be supportive of inserting stronger language. Devore also noted the policy did not address long term issues and wondered how they could be continually supported. Dyer commented that the policy was initiated for childbirth, but it soon became apparent that there were other family issues faculty dealt with such as acute illnesses so the language was adjusted to allow flexibility. Motion carried.

## 2. Dependent Tuition Assistance Resolution, action item – **Attachment 3**

Hughey noted that the intent of the resolution is to support the dependent tuition assistance task force and their report. The resolution does not imply that everything in the report is perfect or that we agree with every recommendation however, it is a major improvement from our current benefit program.

Hughey also expressed her appreciation to the committee for the work and time they invested in developing the report. Faculty Affairs and Faculty Senate Leadership supports the report's recommendations. They will also recommend to President Schulz and his cabinet that the task force recommendations be implemented and to appoint another taskforce to continue working on the dependent tuition assistance program and other issues that have been identified. Hughey moved that we approve the resolution which will submit the recommendations to the President's cabinet for their action and implementation. Frieman suggested that spouses and dependents be added to the first Therefore, Be it Resolved. LeHew noted that it was an editorial change that would be accepted. Easton asked about the current policy for employees. Gehrt reported that employees were eligible for three SCHs to be waived per semester. Dodd moved that the following amendment be added to the end of the Dependent Tuition Assistance Resolution following the final clause, "Be It Resolved That:" "And Be It Further Resolved That:

The Faculty Senate urges additional measures to further strengthen the tuition assistance policy, including:

Elimination of the stipulation "Funds will be awarded on a first come-first served basis until budgeted resources are exhausted" in order to make this a true benefit:

Continued work to craft a policy that does not discriminate based on the employee's sexual orientation or lifestyle.

Rationale: This resolution seeks to build on the completed, foundational work of the task force, urging our administrators to ensure that the spirit of inclusiveness be enacted in the resulting policy."

Michie seconded. Cauble suggested to add "but not limited to" the first statement so it reads: "The Faculty Senate urges additional measures to further strengthen the tuition assistance policy, including but not limited to:". Dodd and Michie agreed to the revision. Easton suggested that we ask for the employee policy to provide the same benefit as for dependents and spouse. Gehrt noted that the original report made that suggestion. Knopp invited senators to provide suggestions or improvements to the policy to Faculty Affairs for further consideration. Rintoul expressed his support of the amendment because it further clarifies the enhancements requested from faculty senate to improve the policy. Gehrt noted that elimination of the current practice that dependents appear on the employee's tax return makes it a taxable benefit to the employee. Michie noted that it would be the choice of the employee to accept the benefit. Cauble responded that the items in the amendment are requests for consideration, not to implement immediately. Motion to approve the amendment carried. Stewart asked for further consideration regarding the degree-seeking requirement of the policy. Motion to approve the amended resolution carried.

C. Faculty Senate Committee on Technology – Tweed Ross

Ross reported that they have been working on selecting a Chief Information Officer. Ross recognized two FSCOT members Mark Grinter and Julia Keen that are involved with the search. Ross also announced that Rintoul will fill the chair role next year.

D. Faculty Senate Committee on University Planning – Tom Vontz

Vontz reported that FSCOUP met last week with Vice President Morris. Two topics were brought to their attention after talking about FSCOUP's role with the Vice President of Communications and Marketing; a draft advertising policy and a draft of web redesign goals and objectives. FSCOUP is also prioritizing the longer term budget initiatives to determine which items deserve further investigation.

E. Student Senate – Kyle Reynolds

Reynolds reported that students are finishing up finals and will be starting summer vacation soon. This summer he will begin working on platform issues with Unruh and Oliver. They are also continuing work with the city regarding the mass transit study.

5. Announcements

A. President/Faculty Senate Leadership Council

LeHew asked for volunteers to fill the role of Faculty Senate parliamentarian. Please send names to LeHew or Candace Becker. There was a merger in the college of Education between elementary and secondary

education to form curriculum and instruction. All procedures in appendix N of the faculty handbook were followed. The planning committee of the College of Education was engaged with the merger and has been approved in the Provost Office.

6. New Business  
No new business
7. For the Good of the University  
Gould recognized Elizabeth Dodd as University Distinguished Professor  
LeHew expressed her appreciation to those who assisted her during her presidency.
8. The 2009-2010 Faculty Senate adjourned at 4:50 pm.

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1. Call the 2010-2011 Faculty Senate to Order  
President Cauble called the 2010-2011 Faculty Senate meeting to order at 4:50 p.m.
  2. Election of the Faculty Senate Secretary  
A. Vitae for Loleta Sump – **Attachment 4**  
Young nominated Loleta Sump for Faculty Senate Secretary. Stewart seconded. Gehrt moved that nominations cease and a unanimous ballot be cast for Sump. Seconded by Ransom. Motion carried.
  3. Election of the Faculty Senate President Elect  
A. Vitae for Barney King – **Attachment 5**  
B. Vitae for Jerry Reeck – **Attachment 6**  
Devore moved to nominate Bernard King for Faculty Senate President-Elect. Hughey seconded.

Soldan moved to nominate Jerry Reeck for Faculty Senate President-Elect. Dodd seconded. Weaver moved to close nominations. Gould seconded. Motion passed.

Cauble asked for applications for Ombudspersons. She also noted the need for a faculty representative for student senate. Cauble noted that it is important that we share in the governance. If anyone is interested in becoming more involved please talk to someone on Faculty Senate Leadership and they will describe what is involved in the role. Cauble also asked for volunteers for the appointments to faculty senate and administrative committees.

Cauble announced that the next President-Elect for 2010-2011 is Senator Reeck.

Meeting adjourned at 5:10 pm.

Next meeting: Tuesday, June 8, 2010; 3:30 p.m., Union Big 12 room

Submitted by Cindy Bontrager, Faculty Senate Secretary

**CONSENT AGENDA  
ACADEMIC AFFAIRS**

Course and Curriculum Changes

1. Undergraduate, Graduate, and General Education (refer to approval sheets for further details):

**UNDERGRADUATE COURSE CHANGES AND ADDITIONS:**

College of Agriculture (March 23, 2010 approval sheets)

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

**UNDERGRADUATE CURRICULUM CHANGES:**

Department of Grain Science and Industry

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

FROM:

TO:

<p>Freshman</p> <p>1<sup>st</sup> Semester</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>SPCH 106 Public Speaking .....3</p> <p>GRSC 101Intro to GRSC.....3</p> <p style="text-align: right;">TOTAL 15</p> <p>2<sup>nd</sup> Semester</p> <p>CHM 230Chem II.....4</p> <p>ENGL 100 Expos Writing.....3</p> <p>MATH 205Gen. Calc + Lin. Al.....3</p> <p>ECON 110 Macro Economics.....3</p> <p>Free Electives .....3</p> <p style="text-align: right;">TOTAL 16</p> <p>Sophomore</p> <p>1<sup>st</sup> Semester</p> <p>AGEC 120 Ag Econ.....3</p> <p style="text-align: center;"><del>OR</del></p> <p>ECON120 Prin. of Micro .....3</p> <p>PHYS 113 Gen. Physics I.....4</p> <p>ACCTG 231 Acct. Busi. Ops.....3</p> <p>ENGL 200Expos II.....3</p> <p>Free Electives.....3</p> <p style="text-align: right;">TOTAL 16</p> <p>2<sup>nd</sup> Semester</p> <p>BIOCH 265 Biochem.....5</p> <p>BIOL 455Gen. Micro Biology.....4</p> <p>GRSC 110 Flow Sheets.....2</p>	<p>Freshman</p> <p>1<sup>st</sup> Semester</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>2<sup>nd</sup> Semester</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>COMM 105 Public Speaking.....2</p> <p>GRSC 150 Principles of Milling.....3</p> <p style="text-align: right;">TOTAL 16</p> <p>Sophomore</p> <p>1<sup>st</sup> Semester</p> <p>AGEC 120 Ag Econ &amp; Ag Bus.....3</p> <p>BIOCH 265 or <u>CHEM 350/351</u>.....5</p> <p>ENGL 200 Expo Writing II.....3</p> <p>PHYS 113 General Physics I.....4</p> <p>GRSC 210 Flow sheets.....3</p> <p style="text-align: right;">TOTAL 18</p> <p>2<sup>nd</sup> Semester</p> <p>ACCTG 231 Accounting Bus Opr.....3</p> <p>BIOL 455 General Microbiology.....4</p> <p>PHYS 114 General Physics II.....4</p>
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HN 132 Basic Nutrition.....3	STAT 325 Elementary Statistics.....3
GRSC 150 Prin. of Milling.....3	GRSC 310 Material Handling.....3
TOTAL 17	TOTAL 17
Junior	Junior
1 <sup>st</sup> Semester	1 <sup>st</sup> Semester
FDSCI 607 Food Micro.....4	AG COM 400 Ag. Bus. Comm.....3
PHYS 114 Gen. Physics II.....4	FDSC 607 Food Microbiology.....4
ENGL 516 Written Comm.....3	GRSC 635 Bk. Sci. I .....2
OR	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	
Free Electives.....2	2 <sup>nd</sup> Semester
TOTAL 17	GRSC 602 Cereal Science.....3
2 <sup>nd</sup> Semester	GRSC 651 Food/Feed Prod Prot.....4
GRSC 602 Cereal Sci.....3	GRSC 601 Practicum.....1
<del>GRSC 701</del> Practicum .....1	GRSC 637 Bk. Sci. II.....3
GRSC 737-Baking Sci. II.....3	GRSC 638 Bk Sci. II lab.....1
<del>GRSC 738</del> -Baking Sci. II Lab.....1	FDSCI 305 Food Processing.....3
FDSCI 305 Food Processing.....3	GRSC 405 Analytical Tech.....3
Business Electives.....3	TOTAL 18
TOTAL 14	
Senior	Senior
1 <sup>st</sup> Semester	1 <sup>st</sup> Semester
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
2 <sup>nd</sup> Semester	2 <sup>nd</sup> Semester
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	GRSC 601 Practicum.....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</del> -Practicum.....1	GRSC 670 Bakery Layout.....1
Business Electives.....3	Business Electives.....3
TOTAL 16	TOTAL.....15
Minimum of <del>128</del> Credits required for Graduation	Minimum of 129 Credits required for Graduation
Specialization Electives	Special Electives
GRSC 610 Elec./Grain Proc.....3	GRSC 680 Faculty Lead Study Abroad.....V
GRSC 500 Milling Science I.....4	GRSC 610 Elec./Grain Proc.....3
GRSC 745 Fund. of Bioprocessing.....3	GRSC 500 Milling Science I.....4
<del>GRSC 720</del> -Extrusion Proc. Fd & Fd.....4	GRSC 745 Fund of Bioprocessing.....3
EDLST 212 Intro to Lead concepts.....3	GRSC-620 Extrusion Pro. Fd & Fd.....4
FDSCI 690 HACCP.....2	EDLST 212 Intro to Lead Concepts.....3
GRSC 712 Vib. Spect. Anal.....1	FDSCI 690 HACCP.....2
GRSC 713 Chromotography.....1	GRSC 712 Vib. Spect. Analysis.....1
	GRSC 713 Chromotography.....1
Business Electives, Production Management Option (9 hrs required)	Business Electives (9 hours required)
ACCTG 241 Acct. for Invest & Fin.....3	ACCTG 241 Acct. for Inv. & Fin.....3
ACCTG 331 Proc. And Controls.....3	
AGEC 500 Production Economics.....3	
AGEC 515 Food & Agric Bus Mktg .....3	
FINAN 450 Intro to Finance.....3	
IMSE 501 Industrial Management.....3	
MANGT 300 Intro to TQM.....1	
MANGT 530 Industrial Relations.....3	



MKTG 400 Marketing.....3	ACCTG 331 Proc. And Controls.....3
MKTG 542 Sales Management.....3	AGEC 500 Production Economics.....3
	AGEC 515 Food & Ag Bus Mgt.....3
	FINAN 450 Intro to Finance.....3
	ISME 501 Industrial 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>1<sup>st</sup> Semester</p> <p>GENAG-101 Ag Orientation..... 1</p> <p>GRSC-101 Intro to Grain Sci..... 3</p> <p>CHM-210 Chemistry I ..... 4</p> <p>ENGL-100 Expository Writing I..... 3</p> <p>MATH-205 Gen. Calc. &amp; Lin. Algebra.....3</p> <p style="text-align: right;">TOTAL 14</p> <p>2<sup>nd</sup> Semester</p> <p>CHM-230 Chemistry II..... 4</p> <p>BIOL-198 Princ. of Biology ..... 4</p> <p>AGEC-120 Ag. Econ. &amp; Ag. Bus..... 3</p> <p>SPCH-105 Public Speaking 1A..... 2</p> <p style="padding-left: 20px;">Soc.Sci./Hum Electives..... 3</p> <p style="text-align: right;">TOTAL 16</p> <p>SOPHOMORE</p> <p>1<sup>st</sup> Semester</p> <p>ENGL-200 Expository Writing II..... 3</p> <p>ECON-110 Macroeconomics ..... 3</p> <p style="padding-left: 20px;">Soc. Sci./Hum Elective .....3</p> <p style="padding-left: 40px;">Opt A or B .....6</p> <p style="text-align: right;">TOTAL 15</p> <p>2<sup>nd</sup> Semester</p> <p>GRSC-110 Flow Sheets ..... 2</p> <p>PHYS-113 General Physics I ..... 4</p> <p style="padding-left: 20px;">Soc.Sci./Hum Electives..... 3</p> <p style="padding-left: 40px;">Opt. A or B .....8</p> <p style="text-align: right;">TOTAL 17</p> <p>JUNIOR</p> <p>1<sup>st</sup> Semester</p> <p>GRSC-661 Qual. of Food &amp; Feed Ingrid..... 3</p> <p>PHYS-114 General Physics II ..... 4</p> <p style="padding-left: 20px;">Free Electives ..... 3</p> <p style="padding-left: 40px;">Opt A or B .....6</p> <p style="text-align: right;">TOTAL 16</p> <p>2<sup>nd</sup> Semester</p> <p>GRSC 405 Analytical Techniques. .... 2</p> <p>GRSC-510 Feed Technology I ..... 4</p> <p style="padding-left: 20px;">Free Electives..... 3</p> <p style="padding-left: 40px;">Opt A or B .....6</p> <p style="text-align: right;">TOTAL 15</p> <p>SENIOR</p> <p>1<sup>st</sup> Semester</p> <p>GRSC-591 Comm. Feed &amp; Food Mfg. Intern..... 2</p> <p>GRSC-750 Feed Technology II..... 4</p> <p>GRSC-655 Cereal Food Plant Design/Const..... 3</p> <p style="padding-left: 20px;">Opt A or B .....6</p> <p style="text-align: right;">TOTAL 15</p> <p>2<sup>nd</sup> Semester</p>	<p>FRESHMAN</p> <p>1<sup>st</sup> Semester</p> <p>GENAG-101 Ag Orientation..... 1</p> <p>GRSC-101 Intro to Grain Sci..... 3</p> <p>BIOL-198 Princ. of Biology ..... 4</p> <p>ENGL-100 Expository Writing I..... 3</p> <p style="padding-left: 20px;">Soc.Sci./Hum Electives..... 3</p> <p style="text-align: right;">TOTAL 14</p> <p>2<sup>nd</sup> Semester</p> <p>CHM-210 Chemistry I..... 4</p> <p>GRSC 150 Principles of Milling .....3</p> <p>MATH-205 Gen. Calc. &amp; Lin. Algebra.....3</p> <p>COMM-105 Public Speaking 1A..... 2</p> <p>ECON-110 Macroeconomics ..... 3</p> <p style="text-align: right;">TOTAL 15</p> <p>SOPHOMORE</p> <p>1<sup>st</sup> Semester</p> <p>CHM-230 Chemistry II..... 4</p> <p>GRSC-210 Flow Sheets ..... 3</p> <p>AGEC-120 Ag. Econ. &amp; Ag. Bus..... 3</p> <p>ENGL-200 Expository Writing II..... 3</p> <p>PHYS-113 General Physics I ..... 4</p> <p style="text-align: right;">TOTAL 17</p> <p>2<sup>nd</sup> Semester</p> <p>GRSC-310 Material Handling ..... 3</p> <p>PHYS-114 General Physics II ..... 4</p> <p>BIOCH 256 or CHEM 350/351.....5</p> <p>STAT-325 Introduction to Statistics..... 3</p> <p style="padding-left: 20px;">Soc.Sci./Hum Electives..... 3</p> <p style="text-align: right;">TOTAL 18</p> <p>JUNIOR</p> <p>1<sup>st</sup> Semester</p> <p>GRSC-510 Feed Technology I ..... 4</p> <p>BIOL-455 General Microbiology ..... 4</p> <p>ACCTG-231 Acctg. Bus Options..... 3</p> <p style="padding-left: 20px;">Free Electives ..... 3</p> <p style="padding-left: 40px;">Opt A or B .....3</p> <p style="text-align: right;">TOTAL 17</p> <p>2<sup>nd</sup> Semester</p> <p>GRSC-651 Fd &amp; FD Prod Protection .....4</p> <p>GRSC-690 Feed Technology II..... 4</p> <p>GRSC-661 Qual. of Food &amp; Feed Ingrid..... 3</p> <p style="padding-left: 20px;">Free Electives..... 3</p> <p style="padding-left: 40px;">Opt A or B .....3</p> <p style="text-align: right;">TOTAL 17</p> <p>SENIOR</p> <p>1<sup>st</sup> Semester</p> <p>GRSC-591 Comm. Feed &amp; Food Mfg. Intern..... 2</p> <p>GRSC-655 Cereal Food Plant Design/Const..... 3</p> <p style="padding-left: 20px;">Opt A or B .....9</p> <p style="text-align: right;">TOTAL 14</p> <p>2<sup>nd</sup> Semester</p>
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GRSC-610 Elec. & Cont. Mill. Proc..... 3	GRSC-610 Elec. & Cont. Mill. Proc..... 3
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 ..... <u>46</u>	
Minimum hours required for graduation: 124	Minimum hours required for graduation: 127
<b>OPTION A - FEED PRODUCTION</b>	<b>OPTION A - FEED PRODUCTION</b>
Required Courses ( <del>20 hours</del> ) + <u>18 hours</u> from	Required Courses ( <u>13 hours</u> ) + <u>11 hours</u> from
Specialization Electives List	Specialization Electives List
AGEC-420 Comm Futures Marketing ..... 3	<u>GRSC- 620</u> Extrusion Proc. Fd & Fd Ind..... 4
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>
Required Courses ( <del>34 hours</del> ) + <u>4 hours</u> from Specialization	Required Courses ( <u>19 hours</u> ) + <u>5 hours</u> from Specialization
Electives List	Electives List
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
BIOL-455 Gen Microbiology (w/ lab)..... 4	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>
GENAG-390 Ag. Employment..... 1	GRSC-590 Grain Science Problem ..... 1-3
GRSC-720 Extrusion Proc. Fd & Fd Ind..... 4	GRSC- 691 Faculty-Led Study Abroad ..... 1-3
GRSC 785 Advanced Flour & Feed Tech .....3	AGEC-410 Ag Policy..... 3
GRSC-790 Grain Science Problems..... 2-3	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>1<sup>st</sup> Semester            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>2<sup>nd</sup> Semester            *CHM 230 Chemistry II.....4            GRSC 110 Flow Sheets.....2            BIOL 198 Principle of Biology.....4            SPCH 105 Public Speaking IA.....2            Soc. Science Electives.....3            TOTAL 15</p> <p>SOPHOMORE</p> <p>1<sup>st</sup> Semester            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>2<sup>nd</sup> Semester            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>1<sup>st</sup> Semester            AGRON 340 Grain Grading.....2            GRSC 602 Cereal Sci.....3            GRSC 730 Milling Science II Lec.....2            GRSC 731 Milling Science II Lab.....2            Opt. A, B, or C.....8</p>	<p>FRESHMAN</p> <p>1<sup>st</sup> Semester            CHEM 210 Chemistry I.....4            ENGL 100 Expo Writing I.....3            GENAG 101 Ag Orientation.....1            GRSC 101 Intro. to Grain Sci. and Tech.....3            Social Science Elective .....3            TOTAL 14</p> <p>2<sup>nd</sup> Semester            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>1<sup>st</sup> Semester            AGECE 120 Ag Econ &amp; Ag Bus.....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</p> <p>2<sup>nd</sup> Semester            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>1<sup>st</sup> Semester            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</p>
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TOTAL	47	BIOCH 521/522 Gen. Biochem.....5	
2 <sup>nd</sup> Semester		TOTAL	<u>19</u>
GRSC 405 Cer./ Feed Anal.....2		2 <sup>nd</sup> Semester	
GRSC 630 Mgmt. App Gr. Proc. ....3		ACCTG 231 Accounting Bus Opr.....3	
Soc. Science Electives.....3		CHEM 500 Gen Phys Chem.....3	
*Free Elective.....3		GRSC 712/713 Vib. Spect. & Chrom.....2	
Opt. A, B or C.....6		GRSC 651 Food/Feed Prod Prot .....4	
TOTAL	47	Social Science Elective.....3	
		TOTAL	<u>15</u>
SENIOR		SENIOR	
1 <sup>st</sup> Semester		1 <sup>st</sup> Semester	
GRSC 625 Flour and Dough Testing.....3		GRSC 625 Flour and Dough Testing.....3	
GRSC 635 Bake Sci. I.....2		GRSC 635/36 Bake Science I .....4	
GRSC 636 Bake Sci. I Lab.....2		GRSC <u>684</u> Mill Proc. Tech. Mgmt.....3	
Opt. A, B or C.....8		CHEM 531/532 Organic Chem.....5	
TOTAL	15	TOTAL	15
2 <sup>nd</sup> Semester		2 <sup>nd</sup> Semester	
GRSC 651 Fd. Fd. Prod. Prot.....4		GRSC 630 Mgmt Appl Grain Proc Ind.....3	
GRSC <del>734</del> Mill Proc. Tech Mgmt.....3		CHEM 550 Organic Chem.....3	
GRSC 610 Elec/Grain Proc. Ind.....3		Free Elective.....3	
Opt. A, B or C.....8		Social Science Elective.....3	
TOTAL	48	Specialization Elective.....3	
		TOTAL	<u>15</u>
Minimum Requirement number of hours is: 129		Minimum Requirement number of hours is: 129	
Specialization Electives		Specialization Electives	
OPTION C (Chemistry) REQUIRED COURSES			
BIOCH 521 Gen. Biochem..... 3		ACCTG 241 Acctg. Invest.and Finan.....3	
BIOCH 522 Gen. Biochem. Lab.....2		ACCTG 331 Acctg. Proc & Cont.....4	
CHM 500 Gen. Phys. Chem. ....3		AGEC 318 Food & Agribus Mangt.....3	
CHM 531 Org. Chem. I .....3		AGEC 420 Comm Futures Mrkt .....3	
CHM 532 Org. Chem. I Lab.....2		AGEC 513 Ag Finance.....3	
CHM 550 Org. Chem. II .....3		AGEC 515 Food & Agric Bus Marketing.....3	
MATH 220 Anal Geom. & Calc. I .....4		AGEC 520 Market Fund & Ftr Op Trad.....3	
MATH 221 Anal Geom. & Calc. II .....4		AGEC 632 Agri Bus Logic.....3	
PHYS 213 Eng. Phys. I .....5		CHEM 371 Chemical Analysis.....4	
PHYS 214 Eng. Phys. II .....5		ENGL 516 Written Comm. For Sci.....3	
Specialization Electives.....3		GRSC <del>720</del> Extrusion proc Fd & Fd.....4	
SPECIALIZATION ELECTIVES		GRSC 691 Faculty Led Study Abraod..... 1-3	
GRSC 712 Vibrational Spect. Analysis .....1		GRSC 745 Fund. Bioprocessing.....3	
GRSC 713 Chromatography† .....1		MANGT 390 Bus law I .....3	
GRSC <del>720</del> Extrusion Proc. in the Fd & Fd.....4		MANGT 420 Mgmt Conc.....3	
GRSC 745 Fund. of Bioprocessing.....3		MANGT 530 Ind. Labor Relations .....3	
ACCTG 331 Acttg Proc. & Cont.....4		MANGT 531 Pers & Human Res. Man.....3	
AGEC 513 Ag Finance.....3		SPCH 311 Bus & Prof. Speaking.....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			

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 course listed for other units have been previously used as required or elective courses.

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>1<sup>st</sup> Semester</p> <p>GEN AG 101 Ag Orientation.....1</p> <p>GRSC 150 Principles of Milling.....3</p> <p>ENGL 100 Exp. Writing I.....3</p> <p>CHEM 210 Chemistry I.....4</p> <p>*ECON 110 Prin. Macro Econ.....3</p> <p style="text-align: right;">TOTAL 14</p> <p>2<sup>nd</sup> Semester</p> <p>*CHM 230 Chemistry II.....4</p> <p>GRSC 110 Flow Sheets.....2</p> <p>BIOL 198 Principle of Biology.....4</p> <p>SPCH 105 Public Speaking IA.....2</p> <p>Soc. Science Electives.....3</p> <p style="text-align: right;">TOTAL <del>15</del></p> <p>SOPHOMORE</p> <p>1<sup>st</sup> Semester</p> <p>AGEC 120 Ag. Econ. &amp; Ag. Bus.....3</p> <p>ENGL 200 Exp. Writing II.....3</p> <p>CHM 350 Gen. Organic Chemistry.....3</p> <p>CHM 351 Gen, Organic Chemistry Lab.....2</p> <p>Soc. Science Electives.....3</p> <p>Opt. A, B or C.....4</p> <p style="text-align: right;">TOTAL <del>18</del></p> <p>2<sup>nd</sup> Semester</p> <p>GRSC 500 Milling Sci. I.....4</p> <p>BIOL 455 Gen. Micro.....4</p> <p>*STAT 325 Elem. Stat.....3</p> <p>Opt. A, B or C.....4</p> <p style="text-align: right;">TOTAL <del>15</del></p>	<p>FRESHMAN</p> <p>1<sup>st</sup> Semester</p> <p>CHEM 210 Chemistry I.....4</p> <p>ENGL 100 Expo Writing I.....3</p> <p>GENAG 101 Ag Orientation.....1</p> <p>GRSC 101 Intro. to Grain Sci. and Tech.....3</p> <p>Social Science Elective.....3</p> <p style="text-align: right;">TOTAL 14</p> <p>2<sup>nd</sup> Semester</p> <p>BIOL 198 Principles of Biology.....4</p> <p>CHEM 230 Chemistry II.....4</p> <p>ECON 110 Principles of Macro Econ.....3</p> <p>GRSC 150 Principles of Milling.....3</p> <p>MATH 220 Calculus I.....4</p> <p style="text-align: right;">TOTAL <u>18</u></p> <p>SOPHOMORE</p> <p>1<sup>st</sup> Semester</p> <p>AGEC 120 Ag Econ &amp; Ag Bus.....3</p> <p>AGRON 340 Grain Grading.....2</p> <p>COMM 105 Public Speaking.....2</p> <p>ENGL 200 Expo Writing II.....3</p> <p>GRSC 210 Flow Sheets.....3</p> <p>PHYS 113 General Physics I.....4</p> <p style="text-align: right;">TOTAL <u>17</u></p> <p>2<sup>nd</sup> Semester</p> <p>BIOCH 265 Intro. Organic and Biochem.....5</p> <p>GRSC 310 Material Handling.....3</p> <p>GRSC 500 Milling Science I.....4</p> <p>PHYS 114 General Physics II.....4</p> <p style="text-align: right;">TOTAL <u>16</u></p> <p>JUNIOR</p>
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<b>JUNIOR</b>			
1 <sup>st</sup> Semester		1 <sup>st</sup> Semester	
AGRON 340 Grain Grading.....	2	BIOL 455 General Microbiology.....	4
GRSC 602 Cereal Science.....	3	STAT 325 Elementary Statistics.....	3
<del>GRSC 730</del> Milling Science II Lec.....	2	GRSC 602 Cereal Science.....	3
<del>GRSC 731</del> Milling Science II Lab.....	2	<u>GRSC 680</u> Milling Science II Lec.....	2
Opt. A, B, or C.....	8	<u>GRSC 681</u> Milling Science II Lab.....	2
<b>TOTAL</b>	<b>47</b>	GRSC 656 Pneumatic Conv.....	2
		<b>TOTAL</b>	<b>16</b>
2 <sup>nd</sup> Semester		2 <sup>nd</sup> Semester	
GRSC 405 Cer./ Feed Anal.....	2	ACCTG 231 Accounting Bus Opr.....	3
GRSC 630 Mgmt. App Gr. Proc. ....	3	GRSC 405 Food&Feed Analysis.....	2
Soc. Science Electives.....	3	GRSC 540/41 Engl Appl. Grain/Food Pro.....	4
*Free Elective.....	3	GRSC 651 Food/Feed Prod Prot .....	4
Opt. A, B or C.....	6	Social Science Elective.....	3
<b>TOTAL</b>	<b>47</b>	<b>TOTAL</b>	<b>16</b>
<b>SENIOR</b>		<b>SENIOR</b>	
1 <sup>st</sup> Semester		1 <sup>st</sup> Semester	
GRSC 625 Flour and Dough Testing.....	3	GRSC 625 Flour and Dough Testing.....	3
GRSC 635 Bake Sci. I.....	2	GRSC 635/36 Bake Science I .....	4
GRSC 636 Bake Sci. I Lab.....	2	GRSC 655 Cer. Food Plant Design.....	3
Opt. A, B or C.....	8	GRSC <u>684</u> Mill Proc. Tech. Mgmt.....	3
<b>TOTAL</b>	<b>45</b>	Specialization Elective.....	5
		<b>TOTAL</b>	<b>18</b>
2 <sup>nd</sup> Semester		2 <sup>nd</sup> Semester	
GRSC 651 Fd. Fd. Prod. Prot.....	4	GRSC 630 Mgmt Appl Grain Proc Ind.....	3
<del>GRSC 734</del> Mill Proc. Tech Mgmt.....	3	GRSC 610 Elec/Grain Proc. Ind.....	3
GRSC 610 Elec/Grain Proc. Ind.....	3	GRSC 640 Advanced Flowsheets.....	2
<del>Opt. A, B or C.....</del>	<del>8</del>	Free Elective.....	3
<b>TOTAL</b>	<b>48</b>	Social Sci Elective.....	3
		<b>TOTAL</b>	<b>14</b>
Minimum Requirement number of hours is: 129		Minimum Requirement number of hours is: 129	
<b>OPTION A (Management) REQUIRED COURSES</b>			
*ACCTG 231 Acctg. Bus. Operations.....	3	Specialization Electives	
*ACCTG 241 Acctg. For Invest, & Finan.....	3	ACCTG 241 Acctg. Invest.and Finan.....	3
AGEC 318 Food & Agribusiness Management.....	3	ACCTG 331 Acctg. Proc & Cont.....	4
*AGEC 420 Commodity Futures Mkts.....	3	AGEC 318 Food & Agribus Mangt.....	3
AGEC 520 Market Fund & Ftr Op Trad .....	3	AGEC 420 Comm Futures Mkts .....	3
MATH 205 Gen. Calc. & Lin. Alg.....	3	AGEC 513 Ag Finance.....	3
PHYS 113 Gen Physics I.....	4	AGEC 515 Food & Agric Bus Marketing.....	3
PHYS 114 Gen. Physics II.....	4	AGEC 520 Market Fund & Ftr Op Trad.....	3
Specialization Electives.....	11	AGEC 632 Agri Bus Logic.....	3
		CHEM 371 Chemical Analysis.....	4
<b>OPTION B (Operations) REQUIRED COURSES</b>		ENGL 516 Written Comm. For Sci.....	
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		
GRSC 785 Advanced Flow and Feed Tech.....	3		
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>SPECIALIZATION ELECTIVES</b>			
GRSC 712 Vibrational Spect. Analysis .....	1		

GRSC 713 Chromatography† .....1	<u>GRSC 620</u> Extrusion Proc. in the Fd & Fd .....4
<del>GRSC 720</del> Extrusion Proc. in the Fd & Fd.....4	GRSC 691 Faculty Led Study Abroad.....1-3
GRSC 745 Fund. of Bioprocessing.....3	GRSC 712 Vib. Spect. Anal.....1
ACCTG 331 Acttg Proc. & Cont.....4	GRSC 713 Chromatography.....1
AGEC 513 Ag Finance.....3	GRSC 745 Fund. Bioprocessing.....3
AGEC 515 Food & Agri. Bus. Mktg.....3	MANGT 390 Bus law I .....3
AGEC 632 Agri. Bus. Logic.....3	MANGT 420 Mgmt Conc.....3
ENGL 516 Writ. Comm. for the Sciences.....3	MANGT 530 Ind. Labor Relations .....3
MANGT 390 Bus. Law I.....3	MANGT 531 Pers & Human Res. Man.....3
MANGT 420 Mgmt. Conc.....3	SPCH 311 Bus & Prof. Speaking.....3
MANGT 530 Ind. Labor Relations.....3	
MANGT 531 Pers. & Human Resources Mgmt.....3	
*SPCH 311 Bus & Prof. Speaking.....3	
† Chemistry Option students	

**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

**GRADUATE COURSE CHANGES AND CURRICULUM ADDITIONS**

Graduate course and curriculum changes approved by the Graduate Council on April 6, 2010 (parentheses indicate page number the change can be located on in the grad council agenda):

**GRADUATE COURSE ADDITIONS:**

*College of Veterinary Medicine (February 4, 2010 approval sheets)*

- CS 782 Equine Medicine Elective (11)
- CS 784 Advanced Soft Tissue Surgery (11)
- CS 785 Veterinary Care and Management of South American Camelids (11)
- CS 786 The Learning Curve of Equine Practice (11)
- CS 826 Contemporary Issues in Veterinary Medicine (11)
- CS 827 Health and Management of Llamas and Alpacas (11)
- CS 880 Design and Interpretation of Production Livestock Field Trials (12)
- CS 881 Veterinary Ophthalmic Surgery Techniques (12)
- DMP 730 Cross-Course Integration III (12)
- DMP 740 Cross-Course Integration IV (12)
- DMP 804 Ecotoxicology (13)
- DMP 845 Food Safety Risk Analysis (13)

## **GRADUATE CURRICULUM ADDITIONS**

*Graduate School – Master of Public Health (March 11, 2010 approval sheets)*

Concurrent BS/MPH (or BA/MPH) degree programs (14)

*College of Agriculture (October 19, 2009 approval sheets-GC agenda has revised version)*

Graduate Certificate in Agricultural Resources & Environmental Management (15-25)

## **GRADUATION LIST ADDITIONS AND POSTHUMOUS DEGREE:**

December 2006

Rebecca Jean Townsend, Bachelor of Science, College of Arts and Sciences

August 2009

Natalie Marie Francel-Stone, Bachelor of Music, College of Arts and Sciences

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.