

**MINUTES**  
**KSU Faculty Senate Meeting**  
**Tuesday, April 14, 2009 3:30 pm**  
**K-State Union, Big 12 Room**

Present: Al-Khatib, Allen, Beard, Blair, Bloodgood, Bontrager, Carroll, Cauble, Charney, Devore, Dodd, Donnelly, Eckels, Fairchild, Flaming Jackson, Frieman, Fullmer, Garcia, Gehrt, Genereux, Gould, Graham, Guzek, Hamilton, Haub, Hendrix, Henry, Hohn, Holcombe, Howard, Hsu, Hubler, Hughey, Keen, King, Kirkham, Knopp, LeHew, Lynn-Sherow, Martini, Miller, Moser, Nafziger, Nechols, Nichols, Ransom, Rintoul, Ross, Schapaugh, A. Schultz, Spikes, Spooner, Stadlander, Stewart, Sump, Turvey-Welch, Urton, Vontz, Whitney-Bammerlin

Absent: Aakeroy, Arck, Atkinson, Boyer, Chengappa, Davis, Dhuyvetter, Finkeldei, Harper, Montelone, Nagaraja, Patell, Renberg, Rogers, B. Schultz, Staggenborg, Wang, Weaver, and Zhang

Proxies: Askey, Brigham, Clark, Collins, Condia, Crenshaw, Fox, Hoag, Hosni, Reeck, Roberts, Stoskopf, Turnley, and Warner

Visitors: Al Cochran, Duane Nellis, Sue Peterson, Ellen Reynolds, Bruce Shubert

1. President Fred Fairchild called the meeting to order at 3:34 p.m.
2. Budget Update – Bruce Shubert  
Bruce Shubert, Duane Nellis, and Sue Peterson updated the senate on the current status of the university budget. At this point the shortfall is about \$20.5 million. Shubert believes the Board of Regents will limit the 1% salary increase for FY 2010 only to classified employees. The governor's veto of stimulus funds used solely for deferred maintenance sets the stage again for no tuition increases. The consensus revenue estimating group will provide an updated report on the state revenues for FY2009 and project the FY2010 revenues on April 17. The information from the reports will be used to finalize the budget during the veto session. To summarize, the administration is watching this week for the Regents discussion on tuition increases and the requirement for 1% salary increase as well as the consensus revenue estimations. The fact that Higher Education is connected to K-12 by the legislature is helpful to K-State. Nellis indicated that the \$40 million federal stimulus money was originally targeted by the Regents for both deferred maintenance and tuition mitigation. In worst case, there could be an additional 5% budget reduction based on projected revenues because the federal stimulus requirements do not allow expenditures to be less than in FY 2006. Peterson will provide a list of talking points after this week for faculty, students and others to discuss the budget with their legislators. Spooner expressed concern with how funding deficits will be handled at K-State. Shubert indicated administration knows there will be some additional funds that will need to be found--\$1 million minimum, possibly more. The university will need to decide what we can permanently cut and determine bridge strategies to get us through until permanent cuts can be implemented. Nellis briefly discussed furlough as a possible bridge strategy. Based on the current economic trend we expect to get hit hard. The administration is working with FSCOUP to identify possibilities to meet the budget reductions. Vontz encouraged senators to contact their legislative representatives as well as the students. Fairchild thanked FSCOUP for working closely with the administration on these issues.
3. The March 10, 2009 minutes were approved.
4. Approval of Consent Agenda – Melody LeHew
  - A. Consent Agenda – See pages 5-10  
LeHew asked if any items should be moved to the discussion agenda. Seeing none, LeHew moved to approve the consent agenda. Motion carried.
5. Report from Standing Committees and Student Senate
  - A. Academic Affairs Committee – Doris Carroll
    1. K-State 8 General Education proposal, first reading – **Attachment 1**

Doris Carroll turned the floor over to Karen Myers-Bowman, Chair of the General Education Task Force, for a brief presentation of the proposal. The in-depth process has been going on for about 6 years, involving about 75 key people. The conclusions reached identified challenges to the current system; employers expect a broad knowledge base as well as do accreditation bodies. The end result is the K-State 8 proposal, intended to meet the needs of all K-State undergraduate students. The eight content areas cover the breadth of experiences required for the general education program. The proposal includes tagging the majority of credit-bearing undergraduate courses across all curriculums with up to two categories. A similar oversight structure to the current UGE program will be established to implement and monitor the program. For additional information: <http://www.k-state.edu/catl/GenEd/>. Rintoul reported Academic Affairs discussed the proposal in-depth and then designed an implementation process with the task force as detailed in page 10. Carroll indicated the revised proposal was approved by Academic Affairs on March 24. Spooner inquired if the existence of the program indicates a new administrator to oversee the program. Myers-Bowman said the task force is not recommending a new administrator but rather the oversight duties will be assigned to a current Provost staff member. Carroll indicated K-State will need to maintain a parallel track for general education, continuing the current program until the K-State 8 is fully implemented. The current UGE designated courses will not be grandfathered or transferred into the new program automatically. Once the proposal is passed, an assessment plan will need to be developed. Guzek inquired on the incentive to tag courses as UGE. Tagging should not be a difficult thing and as courses are tagged, more students may become interested in the particular course. The responsibility for tagging will rest with the department head in consultation with the faculty. The input from the instructor is critical to the tagging process. Carroll said the Academic Affairs committee has discussed the implementation process with the iSIS Task Force and also the provost convened a group to begin to determine the details of the implementation. Fairchild requested comments and questions to be directed to Academic Affairs, with a goal of approving this proposal at the May meeting.

B. Faculty Affairs Committee – Jim Nechols

1. University Handbook - Appendix G revisions, action item – **Attachments 2 and 3**

Jim Nechols moved to approve Appendix G, General Grievance revision. Motion carried. On behalf of Faculty Affairs committee Nechols presented Cauble with a flower bouquet and thanked both her and Spikes for their work on the revision.

2. University Handbook - Administrative Evaluation revisions, first reading

Section B123, Academic Administrator Evaluation Procedures – **Attachment 4** (clean version), **Attachment 5** (version with changes)

Section C41.4 Administrative Evaluation Procedures – **Attachment 6** (clean version), **Attachment 7** (version with changes)

Section C157 Dean’s Evaluation Procedures. Five year comprehensive review – **Attachment 8** (clean version) **Attachment 9** (version with changes)

Nechols presented the administrative evaluation revisions of the University Handbook for first reading. He indicated the purposes of the revisions were to clarify the role of persons involved, to clarify processes used to gather feedback, and to re-word the documents for uniformity and clarity.

Frieman inquired on the first sentence of B123.6. This sentence may need additional clarification. Donnelly discussed the intent of B123.11. Particular wording concerns should be directed to the Faculty Affairs.

Frieman expressed concern about whether or not B123.11 implies a vote. Dodd said there appears to be a disconnect between the first two sentences of this section. She pointed out the distinction between department chair and head needs to be considered in the language.

3. University Handbook – Section D70, Emeritus Status revisions, action item – **Attachment 10**

Nechols moved to approve the change to Section D70, Emeritus Status. Motion carried.

4. Center for Childcare Development Resolution, action item – **Attachment 11**

Nechols moved to approve the Center for Childcare Development Resolution. A concern was expressed about the requirement to make this center a priority in light of the severe budget issue. Nechols indicated the committee discussed this point and the intent is to make this a priority as funding allows. Motion carried.

C. Faculty Senate Committee on University Planning – Tom Vontz

Tom Vontz reported the committee has been discussing a series of eight questions sent to the committee by Provost Nellis as a result of the budget forums held earlier this year. The committee also met with the administration about these eight questions and an enabling furlough policy. They will have a couple of weeks to provide input into the furlough enabling policy. Once a policy is agreed upon the committee may consider

bringing forward a similar policy for the University Handbook. If interested in the eight questions or the furlough policy, contact a committee member. On April 23, FSCOUP will conduct the second campus safety forum at 1:30 p.m. in the Big-12 Room, K-State Student Union. Spikes will convene the forum. Vontz indicated that when he receives a set of talking points about the university funding from Sue Peterson, he will share those with the senate. Fairchild indicated we may re-write Appendix B after the current economic situation. Eckels question the need or wisdom for the faculty having a policy on furloughs, too. Ransom commented that Dodd wrote a thoughtful letter regarding furloughs earlier this semester and Vontz indicated he has seen the letter and is considering her comments in the deliberations. Dodd expressed her concern regarding the nature of a furlough being unpaid leave. Fairchild indicated FSCOUP is doing an extremely good job of engagement in this matter. Eckels commented this is really a pay cut so let's just do that. Devore inquired on the employment contract language and Vontz indicated the current contracts mention the policies of the university.

D. Faculty Senate Committee on Technology – Tweed Ross

Tweed Ross announced that the new e-mail system, Zimbra, will be deployed campus-wide the weekend of May 29-31. Hsu inquired whether issues that arose during the migration for early adopters have been resolved and Ross indicated he believed they have been resolved. Gould said that Eudora is not one of the centrally supported e-mail solutions. K-state.edu and ksu.edu will both continue to be valid addresses. The address book in Webmail will not migrate with Zimbra. Carroll inquired on how the distance students will be notified of the switch. Gould indicated it is already on the top of K-State Online. The committee has been having a working conversation with budget issues related to IT. Ross shared that as required by the university's Electronic Mail Policy, Lynn Carlin, Vice Provost for Information Technology Services, reported during 2008 there were eight cases that required her to allow access to e-mail or data stored on university computers; six cases regarding investigations and four cases regarding legal action. The number of cases is similar to previous years.

E. Report from Student Senate

Schultz introduced Dalton Henry, new student body president. Schultz reported the new Student Senate term began April 2. The Student Senate has a resolution in progress supporting increases in Pell Grant funding. Last term they passed resolutions for continuing the university shuttle service; support of the child development center; and regarding faculty evaluations. They are looking at recommending expansion of residence tuition to students from border states. Students want to be involved in the process of land sell-off because of NBAF. Cauble thanked Schultz for her efficient report and recommended she be allowed to go first next month on the agenda.

6. Announcements

A. Presidential announcements/Faculty Senate Leadership Council

Fairchild announced he has been asked to nominate one faculty member to serve on the K-State Olathe campus committee; interested individuals should contact him.

He announced we still need a parliamentarian for Faculty Senate meetings. Please send him recommendations. Elections will be held next month and candidates for secretary and president-elect are still needed.

Faculty Senate Leadership Council will be meeting with president-elect Schulz later this month.

Dr. Wefald will briefly speak at the beginning of next month's meeting and will be presented with a plaque.

B. Kansas Board of Regents

Fairchild announced that KU has proposed a decrease in the total number of days required in the academic year and the Council of Faculty Senate Presidents will discuss this week. The proposal has been approved by the Council of Chief Academic Officers.

The Board will appoint two new members to the Retirement Fund Plan committee and will approve recommendations for some fund line-up changes in the mandatory retirement plan.

7. New Business

A. Rental Inspections Resolution – **Attachment 12**

Fairchild discussed the Rental Inspection Resolution brought forward by six faculty members. Hubler indicated the resolution is intended to support the resolution passed by Student Senate earlier this semester. Dodd moved to approve the resolution with the updates in new commissioner names. Motion seconded and carried.

8. For the Good of the University - none

9. Meeting was adjourned at 5:25 p.m.

Submitted by Jennifer Gehrt, Faculty Senate Secretary

May 12, 2009 events:

New Faculty Senator Orientation: 2:00 p.m.; Big 12 room

Current and new faculty senator reception: 3:00 p.m.; Big 12 room

Senate meeting: 3:30 p.m.; Big 12 room

## CONSENT AGENDA

### Academic Affairs:

- ❖ Undergraduate course additions approved by the College of College of Veterinary Medicine on February 20, 2009 (see approval sheets for further details):

#### Department of Anatomy and Physiology

Add:

AP 730 Cross-Course Integration I  
AP 640 Cross-Course Integration II  
AP 780 Electives in Anatomy & Physiology

#### Department of Clinical Sciences

Add:

CS 611 Cow-Calf Health Systems  
CS 777 Practicing Veterinary Medicine in a Multicultural Society  
CS 778 The Basics of Bovine Theriogenology

#### Dean's Office

Add:

DVM 700 Veterinary Orientation

- ❖ Undergraduate course additions approved by the College of Engineering on February 27, 2009 (see approval sheets for further details):

#### Department of Computing and Information Sciences

Add:

CIS 551 Introduction to Computer and Information Security

#### General Engineering – Dean's Office

Add:

DEN 050 Conditional Admittance Support for Transfer Students  
DEN 060 Reinstatement Support

#### Department of Electrical and Computer Engineering

Add:

ECE 582 Wind Energy Research

- ❖ Undergraduate course and curriculum changes approved by the College of Agriculture on March 11, 2009 (see approval sheets for further details):

#### COURSE CHANGES

##### *Department of Horticulture, Forestry and Recreation Resources*

Add:

HORT 405 Water Issues in the Lawn and Landscape

#### CURRICULUM CHANGES

##### *Department of Food Science and Industry*

Change to Food Science and Industry B.S. Professional and Processing Electives (see pages 5-7 of this agenda)

*Department of Horticulture, Forestry and Recreation Resources*  
 Changes to the Horticulture Major: Landscape Design Option

FROM:

TO:

Landscape Design Option  Pest Management Elective-----2 HORT 583 Survey of Hort. Ornamental & Food Crop Pests                  1 HORT 587 Turfgrass Diseases & Their Mgt 1 HORT 588 Turfgrass Weeds & Their Mgt. 1 HORT 589 Turfgrass Insects & Their Mgt. 1  Biology Elective-----3-4 <del>BIOL 320 Economic Botany                  3</del> <del>BIOL 529 Fundamentals of Ecology          3</del> <del>BIOL 551 Taxonomy of Flowering Plants  4</del>	Landscape Design Option  Pest Management Elective-----2 HORT 583 Survey of Hort. Ornamental & Food Crop Pests                  1 HORT 587 Turfgrass Diseases & Their Mgt 1 HORT 588 Turfgrass Weeds & Their Mgt. 1 HORT 589 Turfgrass Insects & Their Mgt. 1 <u>PLPTH 590 Landscape Diseases          2</u>  Biology Elective-----3-4 <u>Any BIOL course numbered 300 or higher.</u>
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**RATIONALE:** Course was inadvertently omitted from Pest Management Elective list when the Landscape Design Curriculum was modified for Fall 2008. We wish to correct this. Desire to broaden the choice of courses for the students in the Biology Elective category.

**IMPACT:** The Division of Biology has been notified, and they have indicated they have no concerns about the changes. The Department of Plant Pathology supports this change.

**EFFECTIVE DATE:** Fall 2009

- ❖ Graduate course and curriculum changes as approved by the Graduate Council on March 3, 2009 (see Grad Council agenda for further details):

**COURSE ADDITIONS**

*College of Human Ecology (11-20-08 approval sheets)*

- FSHS 660 Marriage Preparation and Enrichment
- FSHS 800 Introduction to Family Studies and Human Services Graduate Program
- FSHS 806 Statistical Methods in Family Studies and Human Services I
- FSHS 825 Family Resource Management
- FSHS 902 Qualitative Research Methods in FSHS
- FSHS 906 Statistical Methods in Family Studies and Human Services II
- FSHS 907 Advanced Family Research Methods

*College of Arts and Sciences (2-5-09 approval sheets)*

- POLSC 985 Readings in Security Studies
- POLSC 999 PhD Research in Security Studies

**CURRICULUM CHANGES**

*College of Arts and Sciences- Department of English (2-5-09 approval sheets)*

Changes to the Technical Writing and Professional Communication Graduate Certificate Program (Pages 30-31 of GC agenda)

*College of Engineering (11-14-08 approval sheets-modified at final approval of Grad Council)*

*Department of Civil Engineering*

Add:

Graduate Certificate Program in Transportation Engineering (Pages 32-41 of GC agenda)

- ❖ General Education course changes as approved by the UGE Council:

Add: (*College of Architecture*)

◆IAPD 300 Design and Material Culture

Change: (*College of Education*)

◆EDCEP 120 Academic and Career Decisions (existing course submitted for UGE status)

- ❖ Graduation Additions:

Robert B. Landon, Bachelor of Science, College of Arts and Sciences – August 1973

Background: After his final semester here, Robert left for the military and neglected to check on his degree status. After the military he started his own business and again failed to follow up on the status. The request has been made now, and after review of his course work, it was found he met all requirements for the degree.

Debra A. Munoz-Bratina, Bachelor of Science, College of Education – May 1996

Background: Debra had an Incomplete in one class from Summer 95. She took the class and the Incomplete was changed to a grade. All requirements were then met for the '96 degree.

Rebekah Lauren Phillips, Bachelor of Science, College of Arts and Sciences – May 2008

Julius Dominique Bell, Bachelor of Science, College of Arts and Sciences – August 2008

Emily B Wilson, Bachelor of Fine Arts, College of Arts and Sciences – December 2008

Sarah Anne Taylor, Bachelor of Science, College of Arts and Sciences – December 2008

Jessica Taphorn, Bachelor of Science in Business Administration, College of Business Administration – December 2008

Posthumous Degree:

Mauritius Arnoldus Meyer, Bachelor of Science, College of Engineering – May 2009

## Food Science and Industry B.S. Professional and Processing Electives

From:

### FOOD SCIENCE ELECTIVES

ASI	303	Hist & Attitudes Animal Ag	3
ASI	315	Livestock and Meat Evaluation	3
ASI	490	Micro Computer Applications	3
ASI	500	Genetics	3
ASI	533	Anatomy & Physiology	4
ASI	595	Contemp Issues in An Sci & Ag	3
ASI	645	Poultry Management	3
AGRON	335	Environmental Quality	3
FDSCI	430	Food Products Evaluation	3
FDSCI	603	Food Science Internship	1-6
FDSCI	630	Food Science Problems	1-3
FDSCI	713	Rapid Methods and Auto in Micro	2
FDSCI	791	Adv Application of HACCP Prin	3
GNHE	310	Human Needs	3
HN	352	Personal Wellness	3
HN	413	Science of Food	4
HN	701	Sensory Analysis	2-3
GRSC	602	Cereal Science	3
GRSC	651	Food and Feed Prod Protection	4
GRSC	661	Quality of Feed & Food Ingrdnts	3
STAT	341	Biometrics II	3

### NUTRITION ELECTIVES

HN	400	Human Nutrition	3
HN	600	Public Health Nutrition	3
HN	610	Lifespan Nutrition	3
HN	620	Nutrient Metabolism	4
HN	630	Clinical Nutrition	5
HN	635	Nutrition and Exercise	3

### COMMUNICATIONS

AGCOM	210	Communications in Ag Ind	3
AGCOM	400	Ag Business Comm	3
ENGL	300	Expository Writing III	3
ENGL	516	Written Communication for Sci.	3
MKTG	542	Prof Selling and Sales Mngnt	3
MC	110	Mass Comm in Society	3
MC	120	Principles of Advertising	3
MC	180	Fund of Public Relations	3
SOCWK	310	Fund Comm for Ag & Food Sci	3
SPCH	311	Bus and Professional Speaking	3
SPCH	321	Public Speaking II	3
SPCH	322	Interpersonal Communication	3
SPCH	326	Small Group Discussion Methods	3

### ANY FOREIGN LANGUAGE

**Completion of ASI 395- Meat Judging**

### TECHNOLOGY ELECTIVES

ATM	160	Engineered Systems & Tech	3
ATM	450	Sensors/Control Ag Biol Systems	3
ATM	455	Engines and Power Transfer	3
ATM	661	Watershed Management	3
BAE	345	Properties of Biological Materials	2
GRSC	540	Engr Appl Grain/Food Processing	3
GRSC	541	Engr Appl Grain/Food Proc Lab	1

### PROCESSING ELECTIVES

ASI	310	Poultry Products Evaluation	2
ASI	350	Meat Science	3
ASI	361	Meat Animal Processing	2
ASI	370	Principles of Meat Evaluation	2
ASI	405	Fundamentals of Milk Processing	3
ASI	495	Advanced Meat Evaluation	2
ASI	608	Dairy Food Processing & Technol	3
ASI	610	Processed Meat Operations	2
ASI	640	Poultry Products Technology	3
ASI	671	Meat Selection and Utilization	2
ASI	777	Meat Technology	4
GRSC	101	Intro to Grain Science and Industry	3
GRSC	150	Principles of Milling	3
GRSC	505	Cereal & Feed Analysis	3
GRSC	625	Flour and Dough Testing	3
GRSC	635	Baking Science I	2
GRSC	636	Baking Science I Lab	2
GRSC	737	Baking Science II	3
GRSC	738	Baking Science II Lab	1

### BUSINESS/MANAGEMENT ELECTIVES

ACCTG	231	Accounting Business Operations	3
ACCTG	241	Accounting Investing & Financing	3
MANGT	420	Management Concepts	3
MKTG	400	Marketing	3
FINAN	450	Principles of Finance	3
AGEC	120	Ag Econ & Agribusiness	3
AGEC	308	Farm and Ranch Management	3
AGEC	318	Food & Agribusiness Management	3
AGEC	410	Agricultural Policy	3
AGEC	415	Global Ag Econ, Hunger & Poverty	3
AGEC	420	Commodity Futures	3
AGEC	505	Agricultural Market Structures	3
AGEC	515	Food and Agribusiness Marketing	3
AGEC	520	Market Fund & Futures Opt Trad	3
AGEC	570	Food Mfg, Distribution & Retailing	3
AGEC	623	International Agriculture Trade	3
AGEC	632	Agribusiness Logistics	3
CIS	101	Intro to Information Technology	1
CIS	102	Intro to PC Spreadsheet Applications	1
CIS	103	Intro to PC Database Applications	1
CIS	104	Intro to PC Word Processing	1
CIS	105	Intro to Computer Programming	1
ECON	120	Prin Micro Economics	3
ECON	520	Intermediate Micro Economics	3
MANGT	300	Intro to Total Quality Management	1
MANGT	366	Management Info Systems	3
MANGT	390	Business Law I	3
MANGT	421	Intro to Operations Management	3
MANGT	530	Industrial & Labor Relations	3
MANGT	531	Personnel & Human Resource Mgmt.	3
MKTG	450	Consumer Behavior	3
MKTG	541	Retailing	3
MKTG	542	Prof Selling and Sales Management	3

To:

**FOOD SCIENCE ELECTIVES**

ASI 303	Hist & Attitudes Animal Ag	3
ASI 315	Livestock and Meat Evaluation	3
ASI 500	Genetics	3
ASI 533	Anatomy & Physiology	4
ASI 595	Contemporary Issues in An Sci & Ag	3
ASI 645	Poultry Management	3
ASI 660	International Study Experience in ASI 0-6	
AGRON335	Environmental Quality	3
BIOL 340	Human Body	8
BIOL 450	Modern Genetics	4
BIOL 541	Cell Biology	3
CHM 550	Organic Chemistry II	3
CHM 551	Organic Chemistry II Lab	2
FDSCI 430	Food Products Evaluation	3
FDSCI 603	Food Science Internship	1-6
FDSCI 630	Food Science Problems	1-3
FDSCI 713	Rapid Methods and Auto in Microbiol	2
FDSCI 730	Food Safety and Security	2
FDSCI 791	Adv Application of HACCP Prin	3
GENAG505	Comparative Agriculture	2-4
GNHE 310	Human Needs	3
HN 352	Personal Wellness	3
HN 400	Human Nutrition	3
HN 413	Science of Food	4
HN 600	Public Health Nutrition	3
HN 610	Lifespan Nutrition	3
HN 620	Nutrient Metabolism	4
HN 630	Clinical Nutrition	5
HN 635	Nutrition and Exercise	3
HN 701	Sensory Analysis	2-3
GRSC 602	Cereal Science	3
GRSC 651	Food and Feed Prod Protection	4
GRSC 661	Quality of Feed & Food Ingredients	3
PHYS 114	General Physics II	4
STAT 341	Biometrics II	3

**COMMUNICATIONS**

AGCOM400	Ag Business Communications	3
AGCOM590	New Media Technology	3
AGCOM610	Crisis Communication	3
COMM 311	Bus and Professional Speaking	3
COMM 321	Public Speaking II	3
COMM 322	Interpersonal Communication	3
COMM 326	Small Group Discussion Methods	3
COMM 535	Communication Leadership	3
ENGL 300	Expository Writing III	3
ENGL 516	Written Communication for Sci.	3
GENAG450	Citizenship and Ethics in Ag	3
MKTG 542	Prof Selling and Sales Management	3
MC 110	Mass Comm in Society	3
MC 120	Principles of Advertising	3
MC 180	Fund of Public Relations	3
SOCWK310	Fund Comm for Ag & Food Sci	3

**■ ANY FOREIGN LANGUAGE**

**Completion of ASI 495- Meat Judging**

**TECHNOLOGY ELECTIVES**

ASI 490	Micro Computer Applications	3
ATM 160	Engineered Systems & Tech	3
ATM 450	Sensors/Control Ag Biol Systems	3
ATM 455	Engines and Power Transfer	3
ATM 661	Watershed Management	3
BAE 345	Properties of Biological Materials	2
CIS 101	Intro to Information Technology	1

CIS 102	Intro to PC Spreadsheet Applications	1
CIS 103	Intro to PC Database Applications	1
CIS 104	Intro to PC Word Processing	1
CIS 105	Intro to Computer Programming	1
GRSC 540	Engr Appl Grain/Food Processing	3
GRSC 541	Engr Appl Grain/Food Proc Lab	1

**PROCESSING ELECTIVES**

ASI 310	Poultry Products Evaluation	2
ASI 350	Meat Science	3
ASI 361	Meat Animal Processing	2
ASI 370	Principles of Meat Evaluation	2
ASI 405	Fundamentals of Milk Processing	3
ASI 495	Advanced Meat Evaluation	2
ASI 608	Dairy Food Processing & Technology	3
ASI 610	Processed Meat Operations	2
ASI 640	Poultry Products Technology	3
ASI 671	Meat Selection and Utilization	2
ASI 777	Meat Technology	3
FDSCI660	International Study Experience Food Sci0-6	
GRSC 101	Intro to Grain Science and Industry	3
GRSC 150	Principles of Milling	3
GRSC 505	Cereal & Feed Analysis	3
GRSC 625	Flour and Dough Testing	3
GRSC 635	Baking Science I	2
GRSC 636	Baking Science I Lab	2
GRSC 737	Baking Science II	3
GRSC 738	Baking Science II Lab	1

**BUSINESS, MANAGEMENT & ECON ELECTIVES**

ACCTG231	Accounting Business Operations	3
ACCTG241	Accounting Investing & Financing	3
MANGT420	Management Concepts	3
MKTG400	Marketing	3
FINAN450	Principles of Finance	3
AGEC 120	Ag Econ & Agribusiness	3
AGEC 308	Farm and Ranch Management	3
AGEC 318	Food & Agribusiness Management	3
AGEC 410	Agricultural Policy	3
AGEC 415	Global Ag Econ, Hunger & Poverty	3
AGEC 420	Commodity Futures	3
AGEC 505	Agricultural Market Structures	3
AGEC 515	Food and Agribusiness Marketing	3
AGEC 516	Ag Law and Economics	3
AGEC 520	Market Fund & Futures Opt Trad	3
AGEC 570	Food Mfg, Distribution & Retailing	3
AGEC 599	Food and Agribusiness Strategies	3
AGEC 605	Price Analysis and Forecasting	3
AGEC 623	International Agriculture Trade	3
AGEC 632	Agribusiness Logistics	3
AGEC 680	Risk Management	3
ECON 120	Prin Micro Economics	3
ECON 520	Intermediate Micro Economics	3
MANGT300	Intro to Total Quality Management	1
MANGT366	Management Info Systems	3
MANGT390	Business Law I	3
MANGT421	Intro to Operations Management	3
MANGT530	Industrial & Labor Relations	3
MANGT531	Personnel & Human Resource Mgmt.	3
MKTG450	Consumer Behavior	3
MKTG541	Retailing	3
MKTG542	Prof Selling and Sales Management	3

**RATIONALE:** The department annually updates the professional and processing electives list to incorporate new courses and remove those no longer being taught. The list is a suggested electives list that allows for specialization and flexibility to reflect the professional goals of students. The list is not inclusive of all possible professional and processing electives, but is an updated guide of suggested electives and those that have been commonly used.

**IMPACT:** The Division of Biology, Department of Chemistry, and Department of Communication Studies, Theater and Dance have been notified. The Department of Chemistry and the Department of Communication Studies, Theater and Dance have indicated no concerns with the changes. A response has not been received from the Division of Biology.

**EFFECTIVE DATE:** Fall 2009