COLLEGE OF AGRICULTURAL AND LIFE SCIENCES
Proposed Catalog Changes

Agricultural Economics and Rural Sociology

1. Drop the following courses [Effective: Summer 2014]

   AgEc 361 Farm and Natural Resource Appraisal (3 cr)
   Methods; factors affecting the value of land and related resources; valuations for loans, sale, assessment, condemnation, and other purposes; procedures used by governmental and commercial agencies. One 1-day field trip. Recommended Preparation: AgEc 278 or Econ 202.

   Rationale: This course is currently on the dormant/inactive list, and is not required for either the B.S. Agribusiness degree or the B.S. Ag. Econ. degree. We do not plan on offering the course and prefer to drop it from the catalog. For students interested in appraisal, BUS 362 will serve as an appropriate substitute.

   AgEc 383 Economics for Natural Resource Managers (3 cr)
   Role of economic forces in resource analysis and conservation; planning of forest resource use by the firm and society.
   Prereq: Econ 201 or Econ 202, and Math 143 or Math 160 or Math 170, and For 235; or Permission

   Rationale: This course is currently on the dormant/inactive list, and is not a required course. CSS 383 will serve as an appropriate substitute for this course for interested students.

Animal and Veterinary Science

1. Change the curricular requirements of Animal and Veterinary Science (B.S.A.V.S.) [Effective: Summer 2014]

   Required course work includes the university requirements (see regulation J-3) and:

   AVS 109       The Science of Animals that Serve Humanity (4 cr)
   AVS 209       Science of Animal Husbandry (4 cr)
   AVS 271, AVS 273 Anatomy and Physiology and Lab (4 cr)
   AVS 305       Animal Nutrition (3 cr)
   AVS 371, AVS 373 Anatomy and Physiology and Lab (4 cr)
   AVS 452       Physiology of Reproduction (4 cr)
   Biol 115           Cells and the Evolution of Life (4 cr)
   Chem 111          Principles of Chemistry I (4 cr)
   Comm 101          Fundamentals of Public Speaking (2 cr)
   Stat 251          Statistical Methods (3 cr)

   One of the following (3 cr):
   Engl 313          Business Writing (3 cr)
   Engl 317          Technical Writing (3 cr)

   One of the following (3 cr):
   Math 143          Pre-calculus Algebra and Analytical Geometry (3 cr)
   Math 160          Survey of Calculus (4 cr)
   Math 170          Analytic Geometry and Calculus I (4 cr)

   Complete one of the following four options:

   A. Business Option
   Acct 201          Introduction to Financial Accounting (3 cr)
   Acct 202          Introduction to Managerial Accounting (3 cr)
   AgEc 278          Farm and Ranch Management (4 cr)
   AgEc 289          Agricultural Markets and Prices (3 cr)
   AVS 322           Animal Reproduction and Breeding (3 cr)
   AVS 306          Feeds and Ration Formulation (4 cr)
   AVS 363          Animal Products for Human Consumption (4 cr)
   AVS 450          Issues in Animal Agriculture (1 cr)
   BLaw 265          Legal Environment of Business (3 cr)
   Chem 275          Carbon Compounds (3 cr)
   Econ 201          Principles of Macroeconomics (3 cr)
   Econ 202          Principles of Microeconomics (3 cr)
   Business electives (6 cr)
   6 crs of Upper Division Ag Econ
One of the following (3 cr):
AgEc 301 Managerial Economics: Production (3 cr)
AgEc 302 Managerial Economics: Consumption & Markets (3 cr)

One of the following (3-4 cr):
AVS 222 Animal Reproduction and Breeding (3 cr)
AVS 452 Physiology of Reproduction (4 cr)

One of the following (4 cr):
Chem 101 Introduction to Chemistry I (4 cr)
Chem 111 Principles of Chemistry I (4 cr)

One of the following (3 cr):
AVS 472 Dairy Cattle Management (3 cr)
AVS 474 Beef Cattle Science (3 cr)

One of the following (3 cr):
AVS 466 Equine Science and Management (3 cr)
AVS 468 Companion Animal Biology & Management (3 cr)
AVS 472 Dairy Cattle Management (3 cr)
AVS 474 Beef Cattle Science (3 cr)
AVS 476 Sheep Science (3 cr)

Species Production Courses (6 cr from a., or 3 cr from a. and b.):
a. AVS 472 Dairy Cattle Management, AVS 474 Beef Cattle Science, or AVS 476 Sheep Science (3 cr)
b. AVS 466 Equine Science and Management, or AVS 468 Companion Animal Biology & Management (3 cr)

Courses to total 132-120 credits for this degree

B. Dairy Science Option
AgEc 278 Farm and Ranch Management (4 cr)
AgEc 289 Agricultural Markets and Prices (3 cr)
AVS 172 Principles and Practices of Dairy Science (2 cr)
AVS 222 Animal Reproduction and Breeding (3 cr)
AVS 306 Feeds and Ration Formulation (4 cr)
AVS 330 Genetics of Livestock Improvement (3 cr)
AVS 363 Animal Products for Human Consumption (4 cr)
AVS 411 Ruminant Nutrition (3 cr)
AVS 450 Issues in Animal Agriculture (1 cr)
AVS 463 Growth and Lactation (3 cr)
AVS 471 Animal Disease Management (3 cr)
AVS 472 Dairy Cattle Management (3 cr)
AVS 475 Advanced Dairy Cattle Management (3 cr)
Chem 275 Carbon Compounds (3 cr)
Econ 202 Principles of Microeconomics (3 cr)
FS 429 Dairy Products (3 cr)
FS 430 Dairy Products Lab (1 cr)

One of the following (3-4 cr):
AVS 222 Animal Reproduction and Breeding (3 cr)
AVS 452 Physiology of Reproduction (4 cr)

One of the following (4 cr):
Chem 101 Introduction to Chemistry I (4 cr)
Chem 111 Principles of Chemistry I (4 cr)

One of the following (3 cr):
MMBB 154 Introductory Microbiology (3 cr)
MMBB 250 General Microbiology (3 cr)

One of the following (1-2 cr):
MMBB 155 Introductory Microbiology Laboratory (1 cr)
MMBB 255 General Microbiology Lab (2 cr)

Courses to total 132-120 credits for this degree

C. Production Option
AgEc 278 Farm and Ranch Management (4 cr)
AgEc 289 Agricultural Markets and Prices (3 cr)
AVS 222 Animal Reproduction and Breeding (3 cr)
AVS 306 Feeds and Ration Formulation (4 cr)
AVS 330 Genetics of Livestock Improvement (3 cr)
AVS 363 Animal Products for Human Consumption (4 cr)
AVS 411 Ruminant Nutrition (3 cr)
AVS 450 Issues in Animal Agriculture (1 cr)
AVS 471 Animal Disease Management (3 cr)
Chem 275 Carbon Compounds (3 cr)
Econ 202 Principles of Microeconomics (3 cr)
REM 151  Rangeland Principles (2 cr)
REM 221 or Ecology (3 cr)

For 221

300 or 400 level Life science elective (chosen from Biol, Ent, Fish, MMBB, PIsc, REM, Soil, or WLF) (3 cr)

One of the following (4 cr):
Chem 101  Introduction to Chemistry I (4 cr)
Chem 111  Principles of Chemistry I (4 cr)

One of the following (3-4 cr):
AVS 222  Animal Reproduction and Breeding (3 cr)
AVS 452  Physiology of Reproduction (4 cr)

One of the following (3 cr):
MMBB 154  Introductory Microbiology (3 cr)
MMBB 250  General Microbiology (3 cr)

One of the following (1-2 cr):
MMBB 155  Introductory Microbiology Laboratory (1 cr)
MMBB 255  General Microbiology Lab (2 cr)

One of the following (2-3 cr):
REM 151  Rangeland Principles (2 cr)
REM 456  Integrated Rangeland Management (3 cr)

One of the following (3 cr):
AVS 472  Dairy Cattle Management (3 cr)
AVS 474  Beef Cattle Science (3 cr)

One of the following (3 cr):
AVS 466  Equine Science and Management (3 cr)
AVS 468  Companion Animal Biology & Management (3 cr)
AVS 472  Dairy Cattle Management (3 cr)
AVS 474  Beef Cattle Science (3 cr)
AVS 476  Sheep Science (3 cr)

Species Production Courses (6 cr from a., or 3 cr from a. and b.):
a. AVS 472 Dairy Cattle Management, AVS 474 Beef Cattle Science, or AVS 476 Sheep Science (3 cr)
b. AVS 466 Equine Science and Management, or AVS 468 Companion Animal Biology & Management (3 cr)

Courses to total 132-140 credits for this degree

D. Science/Preveterinary Option
AVS 452  Physiology of Reproduction (4 cr)
Biol 116  Organisms and Environments (4 cr)
Chem 111  Principles of Chemistry I (4 cr)
Chem 277, Chem 278  Organic Chemistry I and Lab (4 cr)
Phys 111, Phys 111L  General Physics I and Lab (4 cr)
Phys 112, Phys 112L  General Physics II and Lab (4 cr)

One of the following (3-4 cr):
Biol 310  Genetics (4 cr)
Gene 314  General Genetics (3 cr)

One of the following (3 cr):
MMBB 154  Introductory Microbiology (3 cr)
MMBB 250  General Microbiology (3 cr)

One of the following (1-2 cr):
MMBB 155  Introductory Microbiology Laboratory (1 cr)
MMBB 255  General Microbiology Lab (2 cr)

One of the following (3-4 cr):
MMBB 300  Survey of Biochemistry (3 cr)
MMBB 380  Introductory Biochemistry (3 cr)

Select 3 cr from a., or 3 cr from a. and b.:
a. AVS 472 Dairy Cattle Management, AVS 474 Beef Cattle Science, or AVS 476 Sheep Science (3 cr)
b. AVS 466 Equine Science and Management, or AVS 468 Companion Animal Biology & Management (3 cr)

First Year in Veterinary School (32 cr) or the following courses:
AVS 306  Feeds and Ration Formulation (4 cr)
AVS 330  Genetics of Livestock Improvement (3 cr)
AVS 450  Issues in Animal Agriculture (1 cr)
AVS 471  Animal Disease Management (3 cr)
Chem 372  Organic Chemistry II (3 cr)
Biol or MMBB elective, 300-level or above (3 cr)

One of the following (3 cr):
- AVS 451: Endocrine Physiology (3 cr)
- AVS 463: Growth and Lactation (3 cr)
- Biol 423: Comparative Vertebrate Physiology (3 cr)
- Biol 432 or MMBB 409: Immunology (3 cr)
- Biol 447 or MMBB 432: Virology (3 cr)
- Biol 474 or MMBB 460: Microbial Physiology (3 cr)

One of the following (3 cr):
- AVS 472: Dairy Cattle Management (3 cr)
- AVS 474: Beef Cattle Science (3 cr)

Courses to total 132-140 credits for this degree

Rationale:
1. AVS 222 or AVS 452: AVS 222 (reproduction and breeding) was a required course for the AVS Business option. AVS 452 (Physiology of Reproduction) is a more advanced course for animal reproduction. By making it available to the students, in this particular option, we provide more flexibility for students, who are more interested in physiology or reproduction and want to know the subject more in-depth. This flexibility provides opportunity (should they choose) for students in Pre-Veterinary option (who must take AVS 452) to easily add AVS business option to their degree without needing to take AVS 222.
2. Chem 101 or Chem 111: Chem 101, Introduction to Chemistry I, is an appropriate level of knowledge for our Business, Dairy Science and Beef Production Options. Chem 111, Principles of Chemistry I, is a more advanced course and a required course for our Pre-Vet option as an advanced knowledge of chemistry is required for them to apply for Veterinary School. By offering either Chem 101 or Chem 111 we provide more options for our students to succeed.
3. AVS 472, 474, 466, 468, 476: We have cleaned up the options for species production courses compared to the previous university catalog. The students are still required to take 6 credits, but 3 of these credits have to be either AVS 472 or AVS 474 (Dairy or Beef Cattle Management, respectively). These production courses part of the AVS signature program, which was identified several years ago through the college strategy planning. The dairy and beef industry are the two top agricultural commodities in the state of Idaho and department believes that student in animal science must have some knowledge about one of these two species.
4. AVS 371 & 373: Due to the rigor of this course we believe the students will have a better understanding of the amount of material covered and the depth of coverage of physiological and anatomical details if the number is moved to 371. By making the students better aware of the expectations and level of instruction we strongly believe they will perform much more in line with their academic abilities. We further expect students to be more successful if they take this class in their Junior year after prior exposure to biology and nutrition.
5. FS 429 and 430: Dairy Products lecture and lab has been taught sporadically for the last several years. Since 4 years ago we have incorporated information and materials on dairy products in AVS existing course i.e. AVS 363 (Animal Products for Human Consumption). The information about dairy products in AVS 363 is adequate and students in dairy option will obtain satisfactory information. Therefore the FS 429/430 is no longer a required course. Students in the Dairy Option still can take FS as an elective.
6. REM 151 or REM 456: REM 151, Rangeland Principles, provides an appropriate level of basic range knowledge for our Production option. REM 456, Integrated Rangeland Management, is a more intensive course that benefits our Production majors who intend to manage livestock in range conditions. The latter course offers additional scheduling flexibility for our students who select the Production option after their second year, since REM 151 is offered at the same time as two other required courses for the option, AGEC 278 and AVS 305.
7. Chem 372 or other options – Some, not all, Veterinary Schools require Chem 372, Organic Chemistry II, since this isn’t a requirement for all Veterinary schools, we’d like our Pre-Vet students to have the flexibility to take a specialized class of their interest that may be of beneficial to them in Veterinary School.
Family and Consumer Sciences

1. Change the following courses [Effective: Summer 2014]

Note: The department has been notified that statements like “Clothing, Textiles and Design majors must complete this course with a grade of ‘C’ or higher to continue in the program” included in the course description are unenforceable in the registration system. The department has been advised to update the requirements of the CTD majors to enforce this requirement.

FCS 119 Introduction to Fashion and the Apparel Industry (3 cr)
Introduction to the sewn product manufacturing and merchandising industry; overview of socio-cultural, historic, aesthetic, design, business, and economic factors; emphasis on careers in the sewn products industry. **Clothing, Textiles and Design majors must complete this course with a grade of ‘C’ or higher to continue in the program**. (Fall only)
**Prereq:** Clothing, Textiles and Design major; or Child, Family, and Consumer Studies major; or Permission
Rationale: The requirement of a C or higher assures that CTD students possess the necessary understanding of the content presented in this foundation course. This course is our introduction course to our degree program, and we have both majors and non-majors enrolled in it. The addition of “or permission” allows us to add students from outside the Clothing, Textiles and Design major who may benefit from this course.

FCS 224 Apparel Construction and Assembly Processes (3 cr)
Design conception, fabric characteristics, garment construction and assembly, principles of fitting, quality control for the apparel industry. Two 3-hour studios a week and assigned work. **Clothing, Textiles and Design majors must complete this course with a grade of ‘B’ or higher to continue in the program**. (Spring only)
**Prereq:** FCS 123 with a grade of ‘B’ or better; and Clothing, Textiles, and Design; or Child, Family, and Consumer Sciences/Family Life major; or Permission
Rationale: The requirement of a B or higher assures that CTD students possess the necessary understanding of the content presented in this course. The course covers basic garment construction that is necessary for FCS324 Patternmaking. This knowledge is also used for garment costing, building production timelines, and presentation of any apparel line. Upper division courses build on this course content. Prereq description update as a result of our program name change. The prereq requirement of a B or higher in FCS 123 assures that CTD students possess the necessary understanding of the content to continue on in FCS224.

FCS 235 Principles and Methods of Child Observation (3 cr)
Development of skills necessary to observe, record, and interpret child behavior; observations to be arranged. (Fall only)
**Prereq:** FCS 234 with a grade of ‘C’ or better or Permission (Fall only)
Rationale: The developmental content knowledge gained in FCS 234 provides the foundation to extend knowledge of child developmental and develop skills in observing and documenting development. Basic understanding of development is necessary to carry out lab assignments in FCS 235 field placements. A grade of C or better will indicate that the student has achieved a solid knowledge base to build new skills and competencies in FCS 235.

FCS 323 Apparel Product Development (3 cr)
Analysis of textile and apparel products and processes relative to design, development, and production methods, including evaluation of consumer value. **Clothing, Textiles and Design majors must complete this course with a grade of ‘C’ or higher to continue in the program.**
**Prereq:** FCS 123 with a grade of ‘B’ or better and FCS 224 with a grade of ‘B’ or better; or Permission
Rationale: The requirement of a C or higher assures that CTD students possess the necessary understanding of the content presented in this course. This is a rigorous on-line course and the final grade of a C is a sufficient indicator of content knowledge and application. Upper division courses build on this course content. The prereq requirement of a B or higher in FCS 123 assures that CTD students possess the necessary understanding of that content to continue on in FCS323. The prereq requirement of a B or higher in FCS224 assures that CTD students possess the necessary understanding of that content to continue on in FCS323.

FCS 324 Patternmaking (3 cr)
Methods and principles of flat pattern and draping design; use of pattern making skills and advanced construction skills in apparel product development; developing specifications for apparel production. Two 3-hour studios a week and assigned work. **Clothing, Textiles and Design majors must complete this course with a grade of ‘C’ or higher to continue in the program.**
**Prereq:** FCS 224 with a grade of ‘B’ or better and Clothing, Textiles, and Design major; or Permission
Rationale: The requirement of a C or higher assures that CTD students possess the necessary understanding of the content presented in this course. Upper division courses build on this course content. This is a required course for all CTD majors regardless of area of emphasis (Design, Merchandising, Technical Design) and a C is a sufficient indicator of understanding. Prereq description update as a result of our program name change. The prereq requirement of a B or higher in FCS224 assures that CTD students possess the necessary understanding of that content to continue on in FCS324.
FCS 333 Developmental Curriculum for Young Children (4 cr)

Principles and practices of a developmentally based curriculum, assessment, intervention, and evaluation. Three hrs of lec and two hrs of lab a wk. (Spring only)

**Prereq:** FCS 235 with a grade of 'C' or better or Permission

Rationale: The enhanced understanding of development and the observation and assessment knowledge gained in FCS 235 provides the foundation to extend knowledge of child developmental and develop skills in creating developmentally appropriate curriculum for young children. Basic understanding of development and observation are necessary to carry out lab assignments in FCS 333 field placements. A grade of C or better will indicate that the student has achieved a solid knowledge base to build new skills and competencies in FCS 333.

FCS 395 Career Development in Apparel & Textiles (1 cr, max 2)

Preparation for professional internship and job search experiences, including identifying goals, skills, opportunities and strategies, fine-tuning resumes, the application processes, preparing for interviews, analyzing the internship, and introductory portfolio preparation. (Fall only)

**Prereq:** Cloth, Textiles and Design major or Permission

Rationale: The addition of "or permission" allows us to add students from outside the Clothing, Textiles and Design major who may benefit from this course.

FCS 497 Practicum/Internship Preschool (cr arr)

On- or off-campus supervised applied experience in family and consumer sciences major areas—child development and family relations, clothing, textiles, and home design; food and nutrition; consumer education; and cooperative extension. The field experience offers opportunity for students to learn about working in settings for children and families.

**Prereq:** FCS 234 with a grade of 'C' or better, FCS 235 with a grade of 'C' or better, FCS with a grade of 'C' or better, and Permission

Rationale: FCS 497 is a capstone course that is designed to provide students a practical application experience in supporting children and families in an early childhood setting. FCS 234 Infancy & early childhood development, FCS 235 Principles & Methods of Observation, and FCS 333 Developmental Curriculum for Young Children are the foundational courses that provide the student with the necessary knowledge and basic skills to participate in an early childhood setting. Earning a "C" or higher in these courses will indicate understanding of content required to participate in FCS 497. This course is taken by Early Childhood Development and Education students (ECDE). ECDE are certified to work with children age 0 – 8 years. The ECDE program includes two other internships and moving FCS 497 from Practicum to Internship: Preschool brings this course into alignment with the other courses. Transcripts will now reflect internships at age 0-3, 3-5, and K-12.

2. Change the curricular requirements of Child, Family, and Consumer Studies (B.S.F.C.S.)

**Effective:** Summer 2014

The minimum credits required for graduation are 128, including at least 36 credits at the 300-level or above. Required course work includes the university requirements (see regulation J-3) and one of the following options:

A. Child Development/Family Relations Option

The CDFR option allows students to develop individualized programs to meet personal and career goals. Careers include opportunities to provide direct services to children and families through teaching or child care, to fill advocacy roles, or to be involved with parent education.

Comm 101 Fundamentals of Public Speaking (2 cr)

EDCI 201 Contents of Education (2 cr)

EDSP 300 Educating for Exceptionalities (2 cr)

FCS 105 Individual and Family Development (3 cr)

FCS 205 Concepts in Human Nutrition (3 cr)

FCS 234 Infancy and Early Childhood (3 cr)

FCS 235 Principles and Methods of Child Observation (3 cr)

FCS 240 Intimate Relationships (3 cr)

FCS 333 Developmental Curriculum for Young Children (3 cr)

FCS 334 Middle Childhood-Adolescence (3 cr)

FCS 340 Parent-Child Relationships in Family and Community (3 cr)

FCS 346 Personal and Family Finance and Management (4 cr)

FCS 436 Theories of Child and Family Development (3 cr)

FCS 440 Contemporary Family Relationships (3 cr)

FCS 445 Issues in Work and Family Life (3 cr)

FCS 497 Internship Preschool Practicum (9 cr)

H&S 288 First Aid: Emergency Response (2 cr)

**General Education Mathematics:** Math 130 or higher; or Stat 251 or higher (3 cr)

Courses to total 128 credits for this degree

Rationale: The overall credit load is being reduced to 128 credits. This adjustment addresses the university move towards lowering credit requirements without impacting the foundational content knowledge required for working with children and families in a variety
of community settings. This credit level will still allow students the flexibility to add electives to enhance and extend their expertise or add a minor to support their work with children and families. EDCI 201 course content has been revised over the past two years and no longer meets the needs of Child Development and Family Relations (CDFR) students. EDSP 300 will add to the overall content knowledge of the CDFR major by providing foundational special education content. FCS 497 name is being changed to more accurately reflect the course associated with this course number. Currently any core mathematics course will satisfy the university core requirement and the CDFR major requirements. Although CS 101, CS 112, and Math 123 are core mathematics courses, the content and rigor of mathematical skills and application are not adequate for preparing CDFR students for work in the field.

B. Family Life Option
The Family Life Option provides a general preparation in family science. Students may select to pursue course preparation for Accredited Financial Counselor or Certified Family Life Educator. Career options include jobs in business firms, government agencies, and nonprofit organizations. Students could also declare a minor in Aging. See Advisor for specific coursework to pursue these options.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>FCS 105</td>
<td>Individual and Family Development (3 cr)</td>
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<td>FCS 123</td>
<td>Textiles (3 cr)</td>
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<td>FCS 205</td>
<td>Concepts in Human Nutrition (3 cr)</td>
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<tr>
<td>FCS 234</td>
<td>Infancy and Early Childhood (3 cr)</td>
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<td>FCS 240</td>
<td>Intimate Relationships (3 cr)</td>
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<tr>
<td>FCS 251</td>
<td>Survey of FCS Professions (1 cr)</td>
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<td>FCS 323</td>
<td>Apparel Product Development (3 cr)</td>
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<td>FCS 329</td>
<td>History of Western Dress (3 cr)</td>
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<td>FCS 334</td>
<td>Middle Childhood-Adolescence (3 cr)</td>
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<td>FCS 346</td>
<td>Personal and Family Finance and Management (4 cr)</td>
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<td>FCS 349</td>
<td>Apparel Product Development (3 cr)</td>
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<td>FCS 419</td>
<td>Dress and Culture (3 cr)</td>
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<td>FCS 428</td>
<td>Housing America's Families (3 cr)</td>
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<td>FCS 434</td>
<td>Adulthood and Aging Within the Context of Family (3 cr)</td>
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<td>FCS 445</td>
<td>Work and Family Issues (3 cr)</td>
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<td>FCS 448</td>
<td>Consumer Economic Issues (3 cr)</td>
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<tr>
<td>Stat 251</td>
<td>Statistical Methods (3 cr)</td>
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One of the following (3 cr):
- FCS 340 Parent-Child Relationships in Family & Community (3 cr)
- FCS 440 Contemporary Family Relationships (3 cr)

Courses to total 128 credits for this degree

Rationale: The overall credit load is being reduced to 128 credits. This adjustment addresses the university move towards lowering credit requirements without impacting the foundational content knowledge required for working with children and families in a variety of community settings. This credit level will still allow students the flexibility to add electives to enhance and extend their expertise or add a minor to support their work with children and families. FCS 251 is no longer offered and will not be replaced with another course. FCS 323 no longer meets the needs of the Family Life students. FCS 329 or FCS 419 are good options from the Clothing, Textile, and Design major to replace FCS 323 and meet the foundational needs of the Family Life students. Currently any core mathematics course will satisfy the university core requirement and the Family Life option requirements. STATS 251 is necessary for Family Life students to understand basic research.

3. Change the curricular requirements of Food and Nutrition (B.S.F.C.S.) [Effective: Summer 2014]

Required course work includes the university requirements (see regulation J-3) and one of the following options.

A. Coordinated Program in Dietetics
Upon acceptance to the professional phase of the CPD during the second semester of the sophomore year, students must maintain a cumulative grade-point average of at least 2.80 to remain in and graduate from the program. Students must also obtain at least a B (80%) in all CPD courses required by the American Dietetic Association.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>Biol 120</td>
<td>Human Anatomy (4 cr)</td>
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<tr>
<td>Biol 121</td>
<td>Human Physiology (4 cr)</td>
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<tr>
<td>Chem 275</td>
<td>Carbon Compounds (3 cr)</td>
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<td>FCS 105</td>
<td>Individual and Family Development (3 cr)</td>
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<td>FCS 170</td>
<td>Introductory Foods (3 cr)</td>
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<td>FCS 175</td>
<td>Introductory Foods Laboratory (1 cr)</td>
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<td>FCS 205</td>
<td>Concepts in Human Nutrition (3 cr)</td>
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<td>FCS 270</td>
<td>Intermediate Foods (3 cr)</td>
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<td>FCS 301</td>
<td>Professional Skills in Dietetics I (1 cr)</td>
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<td>FCS 302</td>
<td>Professional Skills in Dietetics II (1 cr)</td>
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<td>FCS 361</td>
<td>Advanced Nutrition (3 cr)</td>
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<td>FCS 362</td>
<td>Introduction to Clinical Dietetics (3 cr)</td>
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<td>FCS 363</td>
<td>Medical Nutrition Therapy (4 cr)</td>
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<td>FCS 364</td>
<td>Clinical Dietetics I (4 cr)</td>
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<td>FCS 365</td>
<td>Advanced Nutrition Lab (1 cr)</td>
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<td>FCS 384</td>
<td>Quantity Food Production and Equipment (3 cr)</td>
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<td>FCS 385</td>
<td>Intro Dietetics Supervised Practice I (2 cr)</td>
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<tr>
<td>FCS 387</td>
<td>Food Systems Management (3 cr)</td>
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</table>
FCS 388  Food Systems Management Lab (1 cr)
FCS 411  Global Nutrition (3 cr)
FCS 463  Helping Skills in Dietetics (2 cr)
FCS 472  Clinical Dietetics II (8 cr)
FCS 473  Community Nutrition (3 cr)
FCS 486  Nutrition in the Life Cycle (3 cr)
FCS 487  Community Nutrition Supervised Practice (4 cr)
FCS 488  Management Supervised Practice (8 cr)
FCS 491  Research Methods in Food Nutrition (3 cr)
FCS 492  Nutrition Education in the Life Cycle (2 cr)
Math 143  Pre-calculus Algebra and Analytic Geometry (3 cr)
MMBB 154, 155  Introductory Biology of Bacteria and Viruses and Lab (4 cr)
Stat 251  Statistical Methods (3 cr)

<table>
<thead>
<tr>
<th>One of the following (3 cr):</th>
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<tbody>
<tr>
<td>Acct 201  Introduction to Financial Accounting (3 cr)</td>
</tr>
<tr>
<td>Acct 202  Introduction to Managerial Accounting (3 cr)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>One of the following (3 cr):</th>
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<tbody>
<tr>
<td>Chem 101  Intro to Chemistry I (4 cr)</td>
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<tr>
<td>Chem 111  Principles of Chemistry I (4 cr)</td>
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</tbody>
</table>

2 credits selected from the following:
- FCS 305  Nutrition Related to Fitness and Sport (2 cr)
- FCS 435  Feeding Young Children in Group Settings (1 cr)
- FCS 462  Eating Disorders (2 cr)
- FCS 475  Food Preservation (1 cr)

Courses to total 132 credits for this degree

**B. Nutrition Option**

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Rationale: FCS 302 is being eliminated from the dietetics option curriculum so students have credits available to take an ISEM 301 Great Issues course.

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**Plant, Soil, and Entomological Sciences**

1. Drop the following course [Effective: Summer 2014]

**PlSc 302  Golf and Sports Turf Management (3 cr)**

Turfgrass science, cultivation and management for a wide variety of commercial applications. Recommended Preparation: Majoring in Horticultural Sciences or Crop Sciences, or Professional Golf Management.

*Prereq: Junior standing*

Rationale: This course is no longer taught here at the UI since the instructor left the university for another job.

4. Change the curricular requirements of **Sustainable Crop and Landscape Systems (B.S.Ag.L.S.)** [Effective: Summer 2014]

Required course work includes the university requirements (see regulation J-3) and:

**Agricultural and Life Science Core**

| ASM 305  | GPS and Precision Agriculture (3 cr) |
|----------------------------|
| AgEd 406  | Exploring International Agriculture (3 cr) |
| Biol 115  | Cells and the Evolution of Life (4 cr) |
| Comm 101  | Fundamentals of Public Speaking (2 cr) |
| Soil 205  | The Soil Ecosystem and Lab (2-4 cr) |
|         | Stat 251  Statistical Methods (3 cr) |

<table>
<thead>
<tr>
<th>One of the following (2-3cr):</th>
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<tbody>
<tr>
<td>ASM 305</td>
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<tr>
<td>ASM 412</td>
</tr>
<tr>
<td>PlSc 207</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>One of the following (4cr):</th>
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</thead>
<tbody>
<tr>
<td>Chem 101</td>
</tr>
</tbody>
</table>
One of the following (4 cr):
Chem 112  Principles of Chemistry II (5 cr)
Ent 440  Insect Identification (4 cr)
Ent 441  Insect Ecology (3 cr)
Ent 446  Host Plant Resistance to Insects and Pathogens (3 cr)

One of the following (3-4 cr):
Biol 310  Genetics (4 cr)
Gene 314  General Genetics (3 cr)

Rationale: An Ed 406 is being added to the ALS core. ASM 412 and PIsc 207 are added to the ALS core to provide more options for ALS degree students. Soils 206 is added to the ALS core. Engl 207 and 316 were added to the core to provide more options for ALS degree students. Bio 115 was moved from the ALS core to the major core to provide more choices to students in the other ALS majors. Math 130 was dropped from the degree core since students need to have Math 143 or higher to get into Stat 251. MMBB 154 and 155 were moved from the required horticulture emphasis area to the major core to provide horticulture students with more options. The various changes to the curriculum were made to reflect the catalog changes and provide students with more flexibility to meet degree requirements.

And one of the following emphases:

A. Insects and Society
Biol 116  Organisms and Environments (4 cr)
Biol 312  Molecular and Cellular Biology (3 cr)
Biol 313  Molecular and Cellular Laboratory (1 cr)
Biol 314  Ecology and Population Biology (4 cr)
Chem 112  Principles of Chemistry II (5 cr)
Ent 440  Insect Identification (4 cr)
Ent 441  Insect Ecology (3 cr)
Ent 446  Host Plant Resistance to Insects and Pathogens (3 cr)

One of the following (3-4 cr):
Biol 310  Genetics (4 cr)
Gene 314  General Genetics (3 cr)

Biotechnology Electives (3 cr)
Entomology Electives (5 cr)
Life Science Electives (6 cr)
Mathematics Electives (4 cr)
Physics Electives (4 cr)

Courses to total 128 credits for this degree
B. Soil and Land Use
Chem 112 Principles of Chemistry II (5 cr)
Geol 101 Physical Geology and Lab or
Geol 101L
Geol 111, Physical Geology for Science Majors and Lab (4 cr)
Geol 111L
Phys 111, General Physics I and Lab (4 cr)
Phys 111L
Phys 112, General Physics II and Lab (4 cr)
Phys 112L
Soil 206 The Soil Ecosystem Lab (1 cr)
Soil 415 Soil and Environmental Physics (3 cr)
Soil 422 Physical Geology for Science Majors and Lab (4 cr)
Soil 425 or Microbial Ecology (3 cr)
MMBB 425
Soil 446 Soil Fertility (3 cr)
Soil 454 Pedology (3 cr)/Soil Development and Classification (3 cr)
Soil 499 Directed Study (1 cr)

One of the following (3 cr):
CS 101 Introduction to Computer Science (3 cr)
CS 112 Introduction to Problem Solving and Programming (3 cr)

One of the following (3 cr):
Soil 425 Microbial Ecology (3 cr)
Soil 437 Soil Biology (3 cr)

Courses to total 128 credits for this degree

Rationale: The form requests changes to the Soil and Land Use emphasis area to be consistent with the changes mentioned above and to update the catalog based on changes in course offerings. Specifically, Soil 437 was dropped because it is no longer being taught. Soil 425 was moved to emphasis requirements because it is now the only soil science course that is focused on soil biology and all students need to be exposed to the topic. Soil 206 is being dropped from the emphasis area since it now appears in the core. The name has been changed for soil 454 from Soil Development and Classification to Pedology.

C. Sustainable Cropping Systems
Gene 314 General Genetics (3 cr)
MMBB 154, Introductory Microbiology and Lab (4 cr)
MMBB 155
PlSc 338 Weed Control (3 cr)
PlSc 401 Plant Physiology (3 cr)
PlSc 407 Field Crop Production (3 cr)
PlSc 446 Plant Breeding (3 cr)
PlSc 480 Field Trip (1 cr)
Soil 206 The Soil Ecosystem Lab (1 cr)
Soil 446 Soil Fertility (3 cr)

One of the following (1 cr):
Chem 276 Carbon Compounds Lab (1 cr)
Chem 278 Organic Chemistry I: Lab (1 cr)

One of the following (3 cr):
PlSc 398 Internship (3 cr)
PlSc 499 Directed Study (3 cr)

Professional Support Electives (9 cr):
Accounting
Animal and Veterinary Sciences
Agricultural Economics
Biology
Business
Business Law
Chemistry
Computer Science
Economics
Entomology
Foreign Languages (max 4 credits)
Forest Resources
Landscape Architecture
Microbiology, Molecular Biology and Biochemistry
Physics
Plant Science
Rangeland Ecology and Management
Renewable Materials
Soils
Sustainable Cropping Systems Electives (17 cr):
PlSc 408  Cereal Science (3 cr)
PlSc 410  Invasive Plant Biology (3 cr)
PlSc 433  Plant Tissue Culture Techniques (3 cr)
PlSc 490  Potato Science (3 cr)
Stat 431  Statistical Analysis (3 cr)
Courses to total 128 credits for this degree

D. Environmental Horticulture
Gene 314  General Genetics (3 cr)
MMBB 154,  Introductory Microbiology and Lab (4 cr)
MMBB 155
PlSc 201  Principles of Horticulture (3 cr)
PlSc 300  Plant Propagation (3 cr)
PlSc 338  Weed Control (3 cr)
PlSc 401  Plant Physiology (3 cr)
Soil 206  The Soil Ecosystem Lab (1 cr)
Soil 446  Soil Fertility (3 cr)
One of the following (1 cr):
Chem 276  Carbon Compounds Lab (1 cr)
Chem 278  Organic Chemistry I: Lab (1 cr)
One of the following (3 cr):
PlSc 398  Internship (3 cr)
PlSc 499  Directed Study (3 cr)
Professional Support Electives (9 cr):
Accounting
Animal and Veterinary Sciences
Agricultural Economics
Biology
Business
Business Law
Chemistry
Computer Science
Economics
Entomology
Foreign Languages (max 4 credits)
Forest Resources
Landscape Architecture
Microbiology, Molecular Biology and Biochemistry
Physics
Plant Science
Rangeland Ecology and Management
Renewable Materials
Soils
Environmental Horticulture Electives (15 cr):
PlSc 302  Golf and Sports Turf Management (3 cr)
PlSc 340  Nursery Management (3 cr)
PlSc 341  Nursery Management Laboratory (1 cr)
PlSc 433  Plant Tissue Culture Techniques (3 cr)
PlSc 451  Vegetable Crops (3 cr)
PlSc 464  Landscape Maintenance (3 cr)
PlSc 490  Potato Science (3 cr)
Courses to total 128 credits for this degree
Rationale: PlSc 302 was dropped since the course is no longer taught here at the UI.

E. Plant Biotechnology
Chem 112  Principles of Chemistry II (5 cr)
Chem 278  Organic Chemistry I: Lab (1 cr)
Gene 314  General Genetics (3 cr)
MMBB 486  Plant Biochemistry (3 cr)
MMBB 488  Genetic Engineering (3 cr)
PlSc 401  Plant Physiology (3 cr)
PlSc 433  Plant Tissue Culture Techniques (3 cr)
PlSc 440  Advanced Laboratory Techniques (4 cr)
PlSc 446  Plant Breeding (3 cr)
Soil 206  The Soil Ecosystem Lab (1 cr)

One of the following (3-4 cr):
MAMM 300  Survey of Biochemistry (3 cr)
MMBB 380  Introductory Biochemistry (4 cr)

One of the following (3 cr):
PlSc 398  Internship (3 cr)
PlSc 402  Undergraduate Research in Plant Science (3 cr)
PlSc 499  Directed Study (3 cr)

Professional Support Electives (5 cr):
Accounting
Animal and Veterinary Sciences
Agricultural Economics
Biology
Business
Business Law
Chemistry
Computer Science
Economics
Entomology
Foreign Languages (max 4 credits)
Forest Resources
Landscape Architecture
Microbiology, Molecular Biology and Biochemistry
Physics
Plant Science
Rangeland Ecology and Management
Renewable Materials
Soils

Plant Biotechnology Electives (12 cr):
Biol 312  Molecular and Cellular Biology (3 cr)
Biol 313  Molecular and Cellular Laboratory (1 cr)
Biol 444  Genomics (3 cr)
MMBB 250  General Microbiology (3 cr)
MMBB 255  General Microbiology Lab (2 cr)
MMBB 382  Introductory Biochemistry Laboratory (2 cr)
MMBB 409  Immunology (3 cr)
MMBB 485  Prokaryotic Molecular Biology (3 cr)
MMBB 487  Eukaryotic Molecular Genetics (3 cr)
PlSc 338  Weed Control (3 cr)
PlSc 407  Field Crop Production (3 cr)
PlSc 451  Vegetable Crops (3 cr)
PlSc 490  Potato Science (3 cr)
Soil 446  Soil Fertility (3 cr)

Courses to total 128 credits for this degree