TO: MEMBERS OF THE UNIVERSITY OF IDAHO FACULTY

The items listed below, approved by the University Curriculum Committee, will be considered to have the necessary faculty approvals unless a petition requesting further consideration of specific items is signed by five faculty members and submitted to the chair of the Faculty Senate within 14 calendar days after the date of circulation. If no petition is received within 14 days, the entire report will be submitted to the president for approval and transmittal to the regents, if regents’ action is required. If a petition is received, the items in the report for which further consideration is requested will be referred to the Faculty Senate and the remainder of the report will move forward. On items referred to it, the council may: (1) affirm the action and report it to a meeting of the university faculty, (2) amend the action and report it to a meeting of the university faculty, or (3) rescind the action. Note: If a petition concerns courses or curricula in the College of Letters, Arts and Social Sciences or in the College of Agricultural and Life Sciences, and is signed by five faculty members of the respective college, those items will be returned to the college concerned for further consideration.

All Items below are considered effective Summer 2016 unless otherwise noted with the approved item.

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AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

1. Add the following course

   AgEc 489L Applied Commodity Market Analysis Lab (1 cr)
   Short course title: COMMUNITY MARKETS LAB
   The lab builds upon agricultural marketing risk-management concepts introduced in AgEc 489 – "Understanding and Using Futures and Options Markets". Students will develop spreadsheets containing historical supply and demand data along with actual cash and futures price series on chosen commodity sectors. Appropriate tools and methodologies will then be applied to analyze historical patterns, parameters, basis, seasonality and charting techniques. Lab material coverage will coincide with homework assigned in AgEc 489. Dataset, analytical tools, and actual futures trading platform will then be utilized to develop an applied risk-management hedging program.
   Coreq: AgEc 489

2. Change the following course

   AgEc 414 Financial Analysis of Agricultural Firms (43 cr)
   Short course title: FINANCIAL ANALYSIS AG
   Applying cost analysis and three financial statement analysis to the management of an agricultural business. Evaluating relative performance of agricultural firms by using financial ratios, ride-on investment evaluation (by employing NPV and IRR), leasing vs buying, and financial modelling (proforma statement) for agricultural firms. Examination of cost and accrual based income statement for tax and management decisions. Create a cash flow statement for agricultural firms based on the income and balance sheet statements. Five week course. Three hours of lec per week. (Fall only)
   Prereq: Acct 201 and AgEc 278; or Permission
AGRICULTURAL AND EXTENSION EDUCATION

1. Add the following courses

AgEd 258 Experiential Learning and SAE Programs (1 cr)
Short course: EXPER LEARN & SAE PROGRAMS
This course addresses the role of experiential learning in Agricultural Education programs. A sound understanding and application of these programs is essential to the success of the local program. The emphasis of the course will be to provide students with supervised experience in agriculture. Record keeping skills will be developed to assist the student in planning, decision-making, and reporting.

AgEd 561 Beginning Teacher Induction in Agricultural Education II (1 cr)
Short course: BEG TEACHER INDUCTION II
This course is designed to develop an understanding and application of teaching agriculture using the three-circle model. The course is taught using on-site clinical supervision, technical assistance, leadership, follow-up and support to beginning teachers of secondary agricultural education program. (Spring only)

AgEd 564 Curriculum Development in Agricultural Education (3 cr)
Short course: CURRICULUM DEVELOPMENT IN AGED
Design and development of data based curriculum and curriculum evaluation procedures in agricultural and extension education. Critique of curriculum development models, contemporary trends and issues, curriculum resources and accountability tools. Analysis of the use of national and state standards as well as local community needs in curriculum development.

AgEd 565 Program Planning and Evaluation in Agricultural Education (3 cr)
Short course: PROG PLANNING & EVAL IN AGED
This course is designed to develop an understanding of Program Planning and Evaluation relevant to secondary agricultural education. Theories of program planning, evaluation principles, models, and procedures used in developing and analyzing agricultural education programs, conducting needs assessments, and the marketing of outcomes to major stakeholders.

AgEd 566 Advanced Philosophies of Teaching & Learning in Agricultural Education (3 cr)
Short course: ADV PHIL OF TEACH/LRN IN AGED
Foundations and theories of teaching and learning with emphasis on applications in the secondary agricultural education classroom. Emphasis will be placed upon behavioral, social cognitive, cognitive, information processing, brain-based, constructivist, developmental, motivational, and transformational theories as they apply in contemporary agricultural education settings. Advanced teaching methods and pedagogies based on researched best-practices.

2. Change the following courses

AgEd 560 Beginning Teacher Induction in Agricultural Education I (1-21 cr)
Short course: BEG TEACHER INDUCTION AGED I
On-site clinical supervision, technical assistance, and leadership to beginning teachers of secondary agricultural education programs.
This course is designed to develop an understanding and application of teaching agriculture using the three-circle model. The course is taught using on-site clinical supervision, technical assistance, leadership, follow-up and support to beginning teachers of secondary agricultural education program. (Fall only)
ANIMAL AND VETERINARY SCIENCE

1. Add the following courses

**AVS 517 Macronutrient Metabolism (3 cr)**
Upon completion of this class students will be familiarized with many aspects of digestion, absorption and metabolism of macronutrients in a detailed level. The emphasis will be on interrelationship and regulation of macronutrients utilization at cellular and organ levels. It is assumed that graduate students have a good knowledge of physiology and biochemistry. Pertinent research manuscripts will be discussed in a round-table fashion.
**Prereq:** AVS 305, or AVS 411, or similar course

**AVS 531 Practical Methods in Analyzing Animal Science Experiments (3 cr)**
Short course: Analyzing Animal Experiments
Upon completion of this class students will be able to manage and analyze data obtained from animal experimentations. This is a "hands-on" type of training, specifically designed for AVS graduate students and intends to provide our graduate students with a better understanding of designs commonly used in animal science experiments, advantages and potential pitfalls associated with each design, data processing and analysis, data tabulation, and graphic illustration, and data interpretation.
**Prereq:** 400 level statistics course

2. Change the following courses

**AVS 248 Artificial Insemination and Pregnancy Detection (3 cr)**
Short course: AI & PREGNANCY DETECTION
Anatomy and physiology of pregnant and non-pregnant reproductive systems; artificial insemination; male reproduction; pregnancy detection in domestic livestock.
**Prereq:** AVS 109; and AVS 222 or AVS 452, Junior/Senior Standing OR instructor permission

**AVS 452 Physiology of Reproduction (4 cr)**
Physiology of reproduction; growth, structure, development, endocrinology, and control of reproductive function with emphasis on farm animals. Three lec and one 2-hr lab a wk.
Cooperative: open to WSU degree-seeking students.
**Prereq:** AVS 109 and Biol 115 or equivalent

**AVS 463 Growth and Lactation (3 cr)**
Principles of growth and lactation. Hormonal, nutritional, and metabolic control of bone, muscle, adipose, and mammary tissue development; regulation of lactation.
**Prereq:** AVS 109 and Biol 115
**Coreq:** AVS 305

3. Make the following changes to the Animal and Veterinary Science Major (B.S.A.V.S.)

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

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AVS 109</td>
<td>The Science of Animals that Serve Humanity (4 cr)</td>
</tr>
<tr>
<td>AVS 209</td>
<td>Science of Animal Husbandry (4 cr)</td>
</tr>
<tr>
<td>AVS 305</td>
<td>Animal Nutrition (3 cr)</td>
</tr>
<tr>
<td>AVS 371, AVS 373</td>
<td>Anatomy and Physiology and Lab (4 cr)</td>
</tr>
<tr>
<td>Biol 115</td>
<td>Cells and the Evolution of Life (4 cr)</td>
</tr>
<tr>
<td>Comm 101</td>
<td>Fundamentals of Public Speaking (2 cr)</td>
</tr>
<tr>
<td>Stat 251</td>
<td>Statistical Methods (3 cr)</td>
</tr>
</tbody>
</table>
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 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 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):
### General Curriculum Report #281
**UNIVERSITY OF IDAHO – OFFICE OF THE REGISTRAR**

**December 21, 2015**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AVS 472</td>
<td>Dairy Cattle Management (3 cr)</td>
</tr>
<tr>
<td>AVS 474</td>
<td>Beef Cattle Science (3 cr)</td>
</tr>
</tbody>
</table>

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)

Courses to total 120 credits for this degree

### B. Dairy Science Option

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>AgEc 278</td>
<td>Farm and Ranch Management (4 cr)</td>
</tr>
<tr>
<td>AgEc 289</td>
<td>Agricultural Markets and Prices (3 cr)</td>
</tr>
<tr>
<td>AVS 172</td>
<td>Principles and Practices of Dairy Science (2 cr)</td>
</tr>
<tr>
<td>AVS 306</td>
<td>Feeds and Ration Formulation (4 cr)</td>
</tr>
<tr>
<td>AVS 330</td>
<td>Genetics of Livestock Improvement (3 cr)</td>
</tr>
<tr>
<td>AVS 363</td>
<td>Animal Products for Human Consumption (4 cr)</td>
</tr>
<tr>
<td>AVS 411</td>
<td>Ruminant Nutrition (3 cr)</td>
</tr>
<tr>
<td>AVS 450</td>
<td>Issues in Animal Agriculture (1 cr)</td>
</tr>
<tr>
<td>AVS 463</td>
<td>Growth and Lactation (3 cr)</td>
</tr>
<tr>
<td>AVS 471</td>
<td>Animal Disease Management (3 cr)</td>
</tr>
<tr>
<td>AVS 472</td>
<td>Dairy Cattle Management (3 cr)</td>
</tr>
<tr>
<td>AVS 475</td>
<td>Advanced Dairy Cattle Management (3 cr)</td>
</tr>
<tr>
<td>Chem 275</td>
<td>Carbon Compounds (3 cr)</td>
</tr>
<tr>
<td>Econ 202</td>
<td>Principles of Microeconomics (3 cr)</td>
</tr>
</tbody>
</table>

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):
- Biol 154 Introductory Microbiology (3 cr)
- Biol 250 General Microbiology (3 cr)

One of the following (1-2 cr):
- Biol 255 General Microbiology Lab (2 cr)
- **MMBB-Biol** 155 Introductory Microbiology Laboratory (1 cr)
Courses to total 120 credits for this degree

C. Production Option

<table>
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<td>Farm and Ranch Management</td>
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<td>AVS 222</td>
<td>Animal Reproduction and Breeding</td>
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</tr>
<tr>
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<td>AVS 363</td>
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<td>Econ 202</td>
<td>Principles of Microeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>REM 221</td>
<td>Ecology</td>
<td>3 cr</td>
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<td></td>
<td>or For 221</td>
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<td></td>
<td>300 or 400 level Life science elective (chosen from Biol, Ent, Fish, MMBB, PIsC, REM, Soil, or WLF)</td>
<td>3 cr</td>
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</table>

One of the following (3-4 cr):

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One of the following (4 cr):

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

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<tbody>
<tr>
<td>Biol 154</td>
<td>Introductory Microbiology</td>
<td>3 cr</td>
</tr>
<tr>
<td>Biol 250</td>
<td>General Microbiology</td>
<td>3 cr</td>
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One of the following (1-2 cr):

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<tbody>
<tr>
<td>Biol 255</td>
<td>General Microbiology Lab</td>
<td>2 cr</td>
</tr>
<tr>
<td>MMBB</td>
<td>Biol 155</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

One of the following (2-3 cr):

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>REM 151</td>
<td>Rangeland Principles</td>
<td>2 cr</td>
</tr>
<tr>
<td>REM 456</td>
<td>Integrated Rangeland Management</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

One of the following (3 cr):

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<td>AVS 472</td>
<td>Dairy Cattle Management</td>
<td>3 cr</td>
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<tr>
<td>AVS 474</td>
<td>Beef Cattle Science</td>
<td>3 cr</td>
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</table>

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)**

Courses to total 120 credits for this degree

**D. Science/Pre-veterinary Option**

AVS 452  Physiology of Reproduction (4 cr)
Biol 114  Organisms and Environments (4 cr)
Chem 111  Principles of Chemistry I (4 cr)
Chem 112  Principles of Chemistry II (5 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, Biol 315  Genetics and Lab (4 cr)
Gene 314  General Genetics (3 cr)

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

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

One of the following (3-4 cr):
Biol 300  Survey of Biochemistry (3 cr)
Biol 380  Biochemistry I (4 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)

**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  Principles of Developmental Biology (3 cr)
Biol 483  Mammalogy (3 cr)
Chem 372  Organic Chemistry II (3 cr)
MMBB 460  Microbial Physiology (3 cr)
AVS 411  Ruminant Nutrition (3 cr)
AVS 475  Advanced Dairy Cattle 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)

Courses to total 120 credits for this degree

4. Make the following curricular changes to the Animal Science Minor

AVS 109  The Science of Animals that Serve Humanity (4 cr)
AVS 209  Science of Animal Husbandry (4 cr)

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

Six credits from the following AVS 300-level or higher courses:
AVS 305  Animal Nutrition (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 471  Animal Disease Management (3 cr)

Three credits of the following:
AVS 466  Equine Science and Management (3 cr)
AVS 472  Dairy Cattle Management (3 cr)
AVS 474  Beef Cattle Science (3 cr)
AVS 476  Sheep Science (3 cr)

Courses to total 20 credits for this minor
ART AND ARCHITECTURE

1. Add the following courses

   **Arch 415 Instructional Assistant (1-3 cr, max 6)**
   Assist instructors in delivering courses including classroom and teaching technology set up, taking roll, and other administrative or logistical tasks. Assistants may also (at instructor direction) work with students on design studio critiques, discussions or other related activities. Instructional assistants cannot award or enter grades.
   **Prereq:** Fourth year standing in architecture program

   **Arch 516 Graduate Instructional Assistant (1-3 cr, max 6)**
   Assist instructors in delivering undergraduate courses including classroom and teaching technology set up, taking roll, and other administrative or logistical tasks. Assistants may also (at instructor direction) work with students on design studio critiques, discussions or other related activities. Graduate Instructional assistants may also contribute to the evaluation and grading process, but final grade is the responsibility of the instructor of record.
   **Prereq:** Graduate standing in architecture program.

2. Change the following courses

   **Arch 385 Global History of Architecture I (3 cr)**
   A survey of global architecture and urban design through the seventeenth century, considered within its diverse climatic, ecological, technological, socioeconomic, public health, and cultural contexts. A global survey of architecture and urban design from its beginnings through the seventeenth century, considered within the social, cultural, religious, and political contexts that shape it. Recommended Preparation: Arch 151.

   **Arch 386 Global History of Architecture II (3 cr)**
   A historical survey of global modern architecture from the late Eighteenth and Nineteenth centuries to the development of the Modern Movement in the Twentieth-Century in relation to rapid industrialization and the intellectual culture of the Enlightenment, Romanticism, Historicism, Modernism, and Post-Modernism. Topics include: the architecture of Neoclassicism, Victorian Gothic, industrial technology, the Arts & Crafts movement, and the Modern Movement. A global survey of architecture and urban design from the Enlightenment to the present, considered within the social, cultural, political and technological contexts that shape it.

   **Arch 410 Sketching for Architecture (23 cr)**
   Instruction in intermediate through advanced architectural sketching, painting, and place-recording techniques. A variety of media techniques will be employed, including graphite, charcoal, colored pencil, pen & ink, and watercolor. The majority of work will be completed in class, with additional homework assignments outside class and on field trips. Recommended Preparation: Basic sketching abilities, as developed in Arch 154 and subsequent architectural design studios.

   **Arch 431 Rome Design History (23 cr)**
   Lecture course conducted in Rome, Italy, focused on the essential eras of Roman history related to design (art, architecture, urban planning, etc.): Republican & Imperial Rome; Early Christian Rome; Renaissance & Baroque Rome; the “Third Rome” of the Risorgimento and Mussolini; Contemporary Rome of the late-20th and early-21st Centuries.
   **Prereq:** Arch 430

   **Arch J454/J554 Architectural Design VI Architectural Design: Vertical Studio (6 cr)**
   Large Architectural and/or urban design projects are developed to explore and integrate urban theory sustainable design, construction & environmental control systems technology,
experimental design approaches, human and cultural factors, and construction assemblies. Design projects completed individually or in team/collaborative settings encouraged. Three 3-hr studios a week and assigned work. Field trips at student expense are required and meet outside scheduled hours; some class critique sessions meet outside of scheduled hours. Additional projects/assignments required for graduate credit.  
**Prereq:** Arch 353 and Arch 354; or Permission

Arch 552 Alternative Graduate Design Experience (4-6 cr)  
Independent exploration of specific issues in architecture and/or urban design, including off-site, national or international educational or professional experiences, for qualified students. An application, including Independent study plans and credits must be approved by the Department during the semester before the proposed study. May be substituted for Arch 554. Recommended Preparation: Bachelor of Science in Architecture.  
**Prereq:** B.S. Architecture

Arch 553 Integrated Architectural Design VII (6 cr)  
Comprehensive integrative design of an architectural project including all phases of the design process: pre-design, schematic design and design development with particular emphasis on schematic design and design development. Demonstration of ability to develop spatial details, and construction systems concepts in support of design goals. Three 3-hr studios a week and assigned work; field trips reqd at student expense outside of scheduled hours; some class critique sessions will meet outside of scheduled hours.  
**Coreq:** Arch 568

Arch 554 Architectural Design VIII Architectural Design: Vertical Studio (6 cr)  
See J454/J554.

Arch 556 Architectural Design IX Graduate Project (6 cr)  
Graduate terminal project - a self-directed architectural design study with faculty consultation within a studio context. Students demonstrate their capacity to apply appropriate programming and research methods in pursuit of a focused design topic. The project culminates with a project book prepared by the student.  
**Prereq:** Arch 510, and Arch 553, and Arch 554

Arch 568 Technical Integration in Design (23 cr)  
Strategies for integrating structure, enclosure, services, site and interior systems in the design and development of an architectural concept. Recommended preparation: completion of required building and environmental technologies courses.  
**Prereq or Coreq:** Arch 553  
**Prereq:** Arch 461, 463, 464 or equivalent

Art 497 (s) Practicum in Tutoring Instruction (4 cr, max 21-3 cr, max 6)  
Tutorial and/or instructional services performed by advanced students under faculty supervision. Graded P/F.  
**Prereq:** Permission

3. Make the following changes to the M.Arch. in Architecture

Master of Architecture. Major in Architecture. Candidates must fulfill the requirements of the College of Graduate Studies and the Architecture and Interior Design program. Twenty-four of the 45 credits required for this degree must be at the 500 level, including the following courses: Arch 510 Graduate Seminar (2 cr), Arch 553 Architectural Design VII (6 cr), Arch 554 Architectural Design VIII (6 cr), and Arch 556 Architectural Design IX (6 cr). The remaining courses required to complete credits for this degree may be 400- or 500-level architecture courses or 300- or 400-level courses in supporting areas.
Required courses include:
Arch 510 Graduate Seminar (3 cr)
Arch 553 Architectural Design VII (6 cr)
Arch 554 Architectural Design VIII (6 cr)
Arch 556 Architectural Design IX (6 cr)
Arch 568 Technical Integration in Design (2 cr)
Arch 575 Professional Practice (3 cr)

Graduate architecture electives selected from the following (6 cr):
Arch 502/504 Graduate Seminars and Special Topics (e.g., Urban Morphology, Non-Western Architecture, Urban Design [Boise] and Environment and Behavior) (cr arr)
Arch 511 Native American Architecture (3 cr)
Arch 512 Identity and Place in Global Space (3 cr)
Arch 513 Architectural Theory: Modernism into Postmodernism (3 cr)
Arch 520 Architecture Research Methods (3 cr)
Arch 521 China Program Preparation Seminar (2 cr)
Arch 522 China’s Urbanization Seminar (2 cr)
Arch 523 Cultural & Ethical Issues in Global Architectural Practice (2 cr)
Arch 570 Natural Lighting (3 cr)
Arch 571 Building Performance Evaluation (3 cr)
Arch 572 Integrated Design Seminar (1 cr, max 4)
Arch 573 Daylight Design and Simulation (3 cr)
Arch 574 Building Performance Simulation for Integrated Design (3 cr)
Arch 580 British Green Architecture (2 cr)
Arch 581 Eco Urban Design (3 cr)
Arch 582 Housing Typologies and Issues (3 cr)
Arch 583 Sustainable Development (3 cr)
Arch 584 Urban Design and Morphology (3 cr)
Arch 585 Urban Design Seminar (3 cr)
Arch 599 Non-Thesis Research (5 cr)

Equivalents must be approved by the graduate program coordinator. Graduate students without an undergraduate architecture degree may also earn an accredited M.Arch. degree. Those students are placed in the program according to their academic qualifications, and depending on the background of the transfer student applicant, up to six years of study may be required to complete the degree requirements. Candidates must fulfill the requirements of the College of Graduate Studies and the Architecture program. Master of Architecture degree requirements are listed above.

BIOLOGICAL ENGINEERING
1. Add the following courses

BE 411 (s) Industrial Energy Efficiency (1 cr, 6 cr max)
This course will provide students an understanding of major industrial energy consuming equipment, diagnostics of energy inefficiencies, and instrumentation for baselining energy efficiency. Students will learn energy auditing and report writing with improvement recommendations including cost analysis. Each semester will cover a specific topic such as "process heating and refrigeration" or "motors and air compressors". As topics change by semester, prerequisites may be only a subset of those listed. Contact instructor for details.

Prereq: ((ENGR 320 or ME 322) and ENGR 240) or permission
2. Change the following courses

**BAE J494/J594 Thermochemical Technologies for Biomass Conversion (3 cr)**
Introduce the fundamentals of biomass conversion technologies for biofuels and bioenergy. Specific topics include biomass preparation / pretreatment, pyrolysis, gasification, direct liquefaction, and economic factors in thermochemical conversion of biomass. Advances of the technologies will be brought to current through literature reviews. A semester long course project is required if taken as a graduate level course. Recommended Preparation: Organic Chemistry, Chemical Reaction Engineering, Engineering Thermodynamics. *(Fall, odd-numbered/years)*

**Prereq:** Chem 277 and Chem 278  
**Coreq:** Engr 320 or Permission

**BIOLOGICAL AND AGRICULTURAL ENGINEERING**

1. Make the following changes to the Agricultural Systems Management Major (B.S.Ag.L.S.)

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

**Agricultural and Life Science Core**
- AgEd 406 Exploring International Agriculture (3 cr)
- Soil 205 The Soil Ecosystem and Lab (4 cr)
- Soil 206
- Stat 251 Statistical Methods (3 cr)

One of the following (2-3 cr):
- ASM 305 GPS and Precision Agriculture (3 cr)
- ASM 412 Agricultural Safety and Health (2 cr)
- PlSc 207 Introduction to Biotechnology (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):
- Comm 101 Fundamentals of Public Speaking (2 cr)*
- Engl 207 Persuasive Writing (3 cr)
- Engl 313 Business Writing (3cr)
- Engl 316 Environmental Writing (3 cr)
- Engl 317 Technical Writing (3 cr)

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

*Agricultural Systems Management majors are required to complete Comm 101.

**Agricultural Systems Management Courses**
- Acct 201 Introduction to Financial Accounting (3 cr)
- Acct 202 Introduction to Managerial Accounting (3 cr)
- AgEc 278 Farm and Agribusiness Management (4 cr)
- AgEc 289 Agricultural Markets and Prices (3 cr)
- AgEc 356 Agricultural and Rural Policy (3 cr)
- ASM 107 Beginning Welding (2 cr)
- ASM 112 Introduction to Agricultural Systems Management (3 cr)
- ASM 2001 Seminar (1 cr)
ASM 202 Agricultural Shop Practices (2 cr)
ASM 305 GPS and Precision Agriculture (3 cr)
ASM 315 Irrigation Systems and Water Management (3 cr)
ASM 331 Electric Power Systems for Agriculture (3 cr)
ASM 409 Agricultural Tractors, Power Units and Machinery Management (4 cr)
ASM 412 Agricultural Safety and Health (2 cr)
ASM 433 Agricultural Processing Systems (3 cr)
BAE 491 Senior Seminar (1 cr)
Biol 102 Biology and Society (3 cr)
Bus 190 Integrated Business and Value Creation (3 cr)
BLaw 265 Legal Environment of Business (3 cr)
Econ 202 Principles of Microeconomics (3 cr)
PISc 102 The Science of Plants in Agriculture (3 cr)

Agricultural and Technical Electives (13 cr)

Life Science Elective (3 cr)

One of the following (2-3 cr):
Engr 105 Engineering Graphics (2 cr)
CTE 267 Computer Aided Drafting/Design (3 cr)

One of the following (4 cr):
Phys 100, Fundamentals of Physics and Lab (4 cr)
Phys 100L

Phys 111, General Physics I and Lab (4 cr)
Phys 111L

Phys 211, Engineering Physics I and Lab (4 cr)
Phys 211L

Three credits from the following (3 cr):
AgEc 411 The World of International Agribusiness (1 cr)
AgEc 413 Management of Human Resources in Agribusiness Firms (1 cr)
AgEc 415 Entrepreneurial Skills in Agribusiness Management (1 cr)
AgEc 418 Developing Negotiation Skills in Agribusiness (1 cr)
AgEc 419 Development and Analysis of Enterprise Budgets (1 cr)

One of the following (3 cr):

Engl 313 Business Writing (3 cr)
Engl 317 Technical Writing (3 cr)

Courses to total 128 credits for this degree

BUSINESS

1. Reactivate the following course

Bus 454 Issues in Information Systems (3 cr)
Discussion of major topics of current importance in information systems.
Prereq: Bus 350, Bus 353, or Bus 355
2. Change the following courses

**Bus 290** Leading Organizations and People (3 cr)
Great leaders are made, not born. This course prepares students to effectively acquire and deploy human capital, lead individuals and teams, inspire and motivate people to perform the tasks needed to achieve ambitious goals, and inspire innovation. Includes international and ethical issues. May involve evening exams and presentation practices.

*Prereq: Acct 201, Bus 190, Econ 201, or Econ 272; and Sophomore Standing*

**Bus 370** Process Management (3 cr)
This course examines the concepts and tools used to design, implement, manage, evaluate and improve the business processes used to create and deliver value to customers. International and ethical issues associated with process management will also be considered. May involve evening exams.

*Prereq: Acct 202, Bus 252, and Bus 290; and Stat 251 or Stat 301 or Math 330
Prereq or Coreq: Bus 301, Bus 321, and Bus 350*

**Bus 490** Strategic Management (3 cr)
*Gen Ed: Senior Experience*
Capstone, integrative senior experience course focusing on the formulation and implementation of competitive strategy in both domestic and international contexts. Emphasizes approaches that executives take to provide ethical and strategic leadership to an organization as well as approaches used to achieve alignment of strategy with action across the various functional areas of the business. Application of strategy concepts in practice will be stressed. May involve evening exams.

*Prereq: Bus 390, Bus 290, Bus 301, Bus 321, Bus 350, Bus 370; and Engl 207 or Engl 208 or Engl 313 or Engl 317 or Phil 201; and Senior standing*

3. Make the following curricular changes to the **Business Economics Major (B.S.Bus.)**

This program is offered through the College of Business and Economics.

Students preparing for professional careers as economists in private business, government service, or careers where a broad knowledge of economics is useful should elect this curriculum.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Econ 351</td>
<td>Intermediate Macroeconomic Analysis (3 cr)</td>
</tr>
<tr>
<td>Econ 352</td>
<td>Intermediate Microeconomic Analysis (3 cr)</td>
</tr>
<tr>
<td>Econ 453</td>
<td>Econometrics (3 cr)</td>
</tr>
<tr>
<td>Econ 490</td>
<td>Economic Theory and Policy (3 cr)</td>
</tr>
</tbody>
</table>

And one of the following options:

**A. General Option**
Additional upper-division credits in economics (9 cr)

*Upper-division courses in related field areas, with approval of department (9 cr)*

**Additional upper-division University of Idaho course (3 cr)**

**Courses to total 120 credits for this degree**
B. Financial Economics Option
Bus 302    Intermediate Financial Management (3 cr)
Bus 407    Financial Institutions (3 cr)
Econ 343    Money and Banking (3 cr)

At least one of the following (3 cr):
Bus 381    International Finance (3 cr)
Bus 408    Security Analysis (3 cr)
Bus 463    Portfolio Management (3 cr)
Bus 464    Derivatives and Risk Management (3 cr)

Additional upper-division credits in economics (63 cr)

Courses to total 120 credits for this degree

4. Make the following curricular changes to the Finance Major (B.S.Bus.)

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

Acct 315    Corporate Accounting and Reporting I (3 cr)
Bus 302    Intermediate Financial Management (3 cr)

One of the following (3 cr):
Bus 407    Financial Institutions (3 cr)
Bus 483    Topics in Financial Analysis (3 cr)

One of the following (3 cr):
Bus 409    Problems in Financial Management (3 cr)
Bus 469    Risk and Insurance (3 cr)

Finance electives, select two of the following (6 cr):
Bus 408    Security Analysis (3 cr)
Bus 463    Portfolio Management (3 cr)
Bus 464    Derivatives and Risk Management (3 cr)
Bus 465    Introduction to Market Trading (3 cr)

Supporting electives, select two of the following (6 cr):
Acct 325    Intermediate Financial Accounting II (3 cr)
Acct 385    Cost and Management Accounting (3 cr)
Acct 415    Advanced Financial Accounting and Reporting (3 cr)
Acct 483    Fundamentals of Federal Taxation (3 cr)
Bus 378    Project Management (3 cr)
Bus 381    International Finance (3 cr)
Bus 414    Entrepreneurship (3 cr)
Bus 415   New Venture Creation (3 cr)
Bus 421   Marketing Research and Analysis (3 cr)
Bus 427   Services Marketing (3 cr)
Bus 439   Systems and Simulation (3 cr)
Bus 456   Quality Management (3 cr)
Bus 466   Market Trading Strategies (3 cr)
Bus 495   Product Development and Brand Management (3 cr)
Econ 343   Money and Banking (3 cr)
Econ 351   Intermediate Macroeconomic Analysis (3 cr)
Econ 352   Intermediate Microeconomic Analysis (3 cr)
Econ 407   Public Finance (3 cr)
Econ 453   Econometrics (3 cr)
Stat 431   Statistical Analysis (3 cr)

Two of the following may be used if not used to satisfy the above Finance elective:
Bus 408   Security Analysis (3 cr)
Bus 463   Portfolio Management (3 cr)
Bus 464   Derivatives and Risk Management (3 cr)
Bus 465   Introduction to Market Trading (3 cr)

Courses to total 120 credits for this degree

5. Make the following curricular changes to **all majors within the B.S.Bus. Degree**:

**University Requirements.** See regulation J-3 for requirements that all students in the university must meet.

**College Requirements.** Before proceeding to upper-division work, students majoring in the College of Business and Economics (CBE) must have junior standing and have good academic standing.

Undergraduate students enrolled as majors in the College of Business and Economics may not take any course required for the major on a pass/fail basis, with the exception of those courses offered only on a P/F basis.

Courses completed at a two-year college for transfer into the CBE core or major must be validated before they will be accepted for upper-division course requirements. Validation procedures are established by the faculty members of the CBE department offering these courses. Validation techniques include a proficiency examination, CLEP testing, or successful completion of an additional advanced course in the given field.

Candidates for the B.S.Bus. degree must be accepted officially as majors in the College of Business and Economics for at least their last two semesters before graduation, excluding summer sessions, and complete at least the last 24 credit hours applicable toward their degree during this period.
At least 27 upper division College of Business and Economics credits applied to a B.S. Bus. Degree must be earned in residence on the University of Idaho campus. In addition, at least 12 upper division credit hours of the course requirement in the major must be earned on the UI campus.

All majors require the completion of at least 120 credit hours with the exception of the Marketing, PGA Golf Management Option Major which requires completion of at least 128 credit hours. The required program of study includes: (A) 58-6054-57 credit hours in the CBE Common Requirements, and (B) the major-specific required credit hours in the selected CBE major field. Additional undesignated electives are included in the 120 required credit hours (or 128 required credit hours in the case of the Marketing, PGA Golf Management Option major).

A. CBE Common Requirements:
Communication (5 cr):
Comm 101    Fundamentals of Public Speaking (2 cr)

One of the following (3 cr):
Engl 207    Persuasive Writing (3 cr)
Engl 208    Personal and Exploratory Writing (3 cr)
Engl 313    Business Writing (3 cr)
Engl 317    Technical Writing (3 cr)
Phil 201    Critical Thinking (3 cr)

Mathematics and Statistics (6-7 cr):
One of the following courses (3-4 cr):
Math 160    Survey of Calculus or
Math 170    Analytic Geometry and Calculus I (4 cr)
Math 175    Analytic Geometry and Calculus II (4 cr)
Math 275    Analytic Geometry and Calculus III (3 cr)

One of the following (3 cr):
Stat 251    Statistical Methods (3 cr)
Stat 301    Probability and Statistics (3 cr)

Economics (7-9cr):
Econ 201    Principles of Macroeconomics (3 cr)
Econ 202    Principles of Microeconomics (3 cr)
OR
Econ 272    Foundations of Econ Analysis (4 cr)

AND
Upper-Division Economics Elective (3 cr)

Humanities (3 cr):
Phil 103    Ethics (3-cr)
Phil 208    Business Ethics (3 cr)

Accounting and Business Law (9 cr):
Acct 201    Introduction to Financial Accounting (3 cr)
Acct 202    Introduction to Managerial Accounting (3 cr)
Integrated Business Core (27 24 cr):

BLaw 265  Legal Environment of Business (3 cr)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>Bus 190</td>
<td>Integrated Business and Value Creation (3 cr)</td>
</tr>
<tr>
<td>Bus 252</td>
<td>Introduction to Business Analytics (3 cr)</td>
</tr>
<tr>
<td>Bus 290</td>
<td>Leading Organizations and People (3 cr)</td>
</tr>
<tr>
<td>Bus 301</td>
<td>Financial Resources Management (3 cr)</td>
</tr>
<tr>
<td>Bus 321</td>
<td>Marketing (3 cr)</td>
</tr>
<tr>
<td>Bus 350</td>
<td>Managing Information (3 cr)</td>
</tr>
<tr>
<td>Bus 370</td>
<td>Process Management (3 cr)</td>
</tr>
<tr>
<td>Bus 390</td>
<td>Integrated Topics in Business (3 cr, max 6)</td>
</tr>
<tr>
<td>Bus 490</td>
<td>Strategic Management (3 cr)</td>
</tr>
</tbody>
</table>

B. Requirements in Major (major-specific required credits)

CHEMICAL AND MATERIALS ENGINEERING

1. Make the following curricular changes to the Materials Science and Engineering Minor:

(Note: If completing both the Materials Science and Engineering major or minor and the Metallurgical Engineering minor, students must have 6 unique credits towards each minor)

MSE 201  Elements of Materials Science (3 cr)

And 17 cr from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>Engr 350</td>
<td>Engineering Mechanics of Materials (3 cr)</td>
</tr>
<tr>
<td>MSE 313</td>
<td>Physical Metallurgy I (4 cr)</td>
</tr>
<tr>
<td>MSE 340</td>
<td>Transport and Rate Processes I (4 cr)</td>
</tr>
<tr>
<td>MSE 341</td>
<td>Particulate Materials Processing (4 cr)</td>
</tr>
<tr>
<td>MSE 412</td>
<td>Mechanical Behavior of Materials (3 cr)</td>
</tr>
<tr>
<td>MSE 423</td>
<td>Corrosion (3 cr)</td>
</tr>
<tr>
<td>MSE 427</td>
<td>Ceramic Materials (3 cr)</td>
</tr>
<tr>
<td>MSE 432</td>
<td>Fundamentals of Thin Film Fabrication (3 cr)</td>
</tr>
<tr>
<td>MSE 434</td>
<td>Fundamentals of Polymeric Materials (3 cr)</td>
</tr>
<tr>
<td>MSE 438</td>
<td>Fundamentals of Nuclear Materials (3 cr)</td>
</tr>
<tr>
<td>MSE 456</td>
<td>Metallic Materials (3 cr)</td>
</tr>
<tr>
<td>MSE 464</td>
<td>Materials Physics and Engineering (3 cr)</td>
</tr>
<tr>
<td>Phys 212</td>
<td>Engineering Physics II (3 cr)</td>
</tr>
<tr>
<td>Phys 212L</td>
<td>Engineering Physics II lab (1 cr)</td>
</tr>
</tbody>
</table>

Courses to total 20 credits for this minor
COMPUTER SCIENCE

1. Change the following courses

| CS 112 Computational Thinking and Problem Solving |
| CS112 carries no credit after CS120. | Introduction to computational thinking and problem solving, including elementary computing concepts such as variables, loops, functions, lists, conditionals, concurrency, data types, simple object oriented concepts, I/O, events, syntax, structured programming, basic concepts of computer organization, editing and the influence of computers in modern society. |
| Prereq: | Math 108 with grade of C or better or sufficiently high ACT, SAT, or Math Placement Test score to qualify for Math 143 |
| CS 120 Computer Science I (4 cr) |
| Fundamental programming constructs, algorithms and problem-solving, fundamental data structures, overview of programming languages, virtual machines, introduction to language translation, declarations and types, abstraction mechanisms, object-oriented programming. This course includes a lab. |
| Prereq: | Math 143 with a grade of 'C' or higher or CS 112 with a grade of 'CB' or higher; or sufficiently high ACT, SAT, or Math Placement Test score to qualify for Math 170 |

ELECTRICAL AND COMPUTER ENGINEERING

1. Change the following course

| ECE 427 Power Electronics (3 cr) |
| Characteristics, limitations, and application of solid state power devices; practical aspects of power electronic converters, including rectifiers and inverters; choppers, AC phase control, and device gating techniques. Cooperative: open to WSU degree-seeking students. |
| Prereq: Coreq: | ECE 420 |

ENGLISH

1. Add the following courses

| Engl 524 Descriptive Linguistics (3 cr) |
| Examines the methods linguists use to describe human languages and focuses on the study of phonetics, phonology, morphology, syntax, semantics, and pragmatics. |
| Engl 545 Discourse Analysis (3 cr) |
| Introduces students to the major concepts and methods of discourse analysis, including the ethnography of communication, pragmatics, conversational analysis, and speech act theory. |
| Engl 551 Theories of Second/Additional Language Acquisition (3 cr) |
| Examines how languages are learned by young adults in naturalistic and instructional settings. |

2. Change the following course

| Engl 510 (s) Studies in Linguistics (3 cr, max 12) |
| Topics such as phonology, morphology, syntax, linguistic history, computer assisted language learning, material development, corpus linguistics, or the application of linguistics to the teaching of English literature or composition. |
| Prereq: 6 credits in the following, Engl 241, Engl 442, Engl 496, Engl 506, or Permission |

3. Make the following curricular changes to the B.A. in English

| A. Literature Emphasis |
Foundations (9 cr):
- Engl 215 Introduction to English Studies (3 cr)
- Engl 230 Introduction to Film Studies (3 cr)
- Engl 310 Literary Theory (3 cr)

Literary History (15 cr):
- Engl 345 Shakespeare or a 400-level course in literature before 1800 (3 cr)
- One upper-division course in literature before 1900 (3 cr)

One course from the following (3 cr):
- Engl 221 History of World Cinema I (3 cr)
- Engl 222 History of World Cinema II (3 cr)
- Engl 257 Literature of Western Civilization (3 cr)
- Engl 258 Literature of Western Civilization (3 cr)

Two courses from the following (6 cr):
- Engl 341 Survey of British Literature (3 cr)
- Engl 342 Survey of British Literature (3 cr)
- Engl 343 Survey of American Literature (3 cr)
- Engl 344 Survey of American Literature (3 cr)

Linguistics (3 cr):
- Engl 241 Introduction to the Study of Language (3 cr)
- Engl 496 History of the English Language (3 cr)

Cultural Diversity (One course in non-canonical or underrepresented literatures) (3 cr):
- AIST 320 The Celluloid Indian: American Indians in Popular Film (3 cr)
- Engl 380 Introduction to U.S. Ethnic Literatures (3 cr)
- Engl 481 Women's Literature (3 cr)
- Engl 483 African American Literature (3 cr)
- Engl 484 American Indian Literature (3 cr)
- Engl 485 Global Literature in English (3 cr)

Or an adviser-approved special topics or extra-departmental course (3 cr)

Electives (12 cr):
- Four 400-level courses in literature

Electives (9 cr):
- Three 400-level courses in literature

Electives (3 cr): An additional 400-level literature course, or Engl 322, 375, or 380

Capstone (3 cr):
- Engl 490 Senior Seminar (3 cr)

B. Creative Writing Emphasis

Foundations (3 cr):
- Engl 215 Introduction to English Studies (3 cr)

Literary History (12 cr):
- Engl 257 or Engl 258 Literature of Western Civilization (3 cr)
- Engl 345 Shakespeare or another course in literature before 1800 (3 cr)

Two courses from the following (6 cr):
- Engl 341 Survey of British Literature (3 cr)
- Engl 342 Survey of British Literature (3 cr)
- Engl 343 Survey of American Literature (3 cr)
Engl 344  Survey of American Literature (3 cr)
Genre Craft/Workshop Courses (Students must take a full numerical sequence in their major
genre (ex. 291/391/491), plus two additional creative writing courses in a sequence in one other
genre for a minor genre and either a beginning writing course in a third genre or an advanced
writing course in the minor genre.) (18 cr):

Engl 291  Beginning Poetry Writing (3 cr)
Engl 292  Beginning Fiction Writing (3 cr)
Engl 293  Beginning Nonfiction Writing (3 cr)
Engl 391  Intermediate Poetry Writing (3 cr)
Engl 392  Intermediate Fiction Writing (3 cr)
Engl 393  Intermediate Nonfiction Writing (3 cr)
Engl 491  Advanced Poetry Writing (3 cr)
Engl 492  Advanced Fiction Writing (3 cr)
Engl 493  Advanced Nonfiction Writing (3 cr)

Cultural Diversity (One course in non-canonical or underrepresented literatures) (3 cr):
Engl 380  Introduction to U.S. Ethnic Literatures (3 cr)
Engl 481  Women's Literature (3 cr).
Engl 483  African American Literature (3 cr).
Engl 484  American Indian Literature (3 cr).
Or an adviser-approved special topics or extra-departmental course (3 cr)

**Electives (6 cr):**
Two literature courses at the 400-level

**Electives (3 cr):**
One literature course at the 400-level.

**Electives (3 cr):**
An additional 400-level literature course; or, Engl 322, 375, or 380 may be used, with advisor
approval.

Capstone (3 cr):
Engl 490  Senior Seminar (3 cr)

4. Make the following curricular changes to the **M.A. in English**

Of the minimum of 33 credits required for the degree, at least 24 credits must be earned in the
Department of English at the University of Idaho, and of these no more than nine credits earned
at the Grace Nixon Summer English Institute may be applied to the degree; included in the total
credits required, 3 credits are to be taken in a theory course (which may include Engl 506, Engl
511, or a theory course approved by the department’s director of graduate studies) and 3 credits in pre-1900 literature. Course work for the M.A. in English is normally at the 500s
level; however, up to six credits of work at the 400s level may be included, but only with the
approval of the student’s major professor and the department’s director of graduate studies.
Students are allowed to take 3 credits maximum in practica applying toward the degree.

5. Make the following curricular changes to the **M.A. in Teaching English as a Second Language**

The M.A. in TESL is intended for students who are interested in learning to teach English as a
second language at the post-secondary level. The students take courses in linguistics and in
language teaching pedagogy. This curriculum provides them with theoretical background and
practical training in the areas of second language acquisition.
Of the minimum of 33 credits required for the degree, at least 24 must be earned while enrolled in residence at UI, and at least 21 credits must be earned in courses numbered 500 and above. The 33 credits are to include the following courses (18 credits):

- Engl 510 Studies in Linguistics (6 cr) (Descriptive Linguistics and Second Language Acquisition)
- Engl 524 Descriptive Linguistics (3 cr)
- Engl 551 Theories of Second/Additional Language Acquisition (3 cr)
- Engl 513 ESL Methods I: Basic Oral/Aural Skills (3 cr)
- Engl 515 ESL Teaching Practicum (3 cr)
- Engl 517 Introduction to Applied Linguistics (3 cr)
- Engl 544 Sociolinguistics (3 cr)

The remaining 15 credits are to be taken in approved electives in the Department of English, which may include thesis credits.

The M.A. in TESL offers a thesis option. Students who choose to complete the thesis option will write a thesis which may be up to 6 credits of their required 33 credits. Students who do not elect to write a thesis must complete their non-thesis option in the form of a comprehensive examination.

Native speakers of English in the TESL program must complete or have completed two years of college work (or its equivalent) in a modern foreign language. They must have studied a foreign language for at least one semester (or equivalent) within the preceding five years. Non-native speakers of English are excused from this requirement.

**FAMILY AND CONSUMER SCIENCES**

1. Add the following courses

   - **FCS 484 Vegetarian Food and Nutrition (3 cr)**
     Vegetarian food and nutrition principles with their application to health benefits and life cycles stages. (online only)
     **Prereq:** FCS 205

2. Change the following courses

   - **FCS 324 Patternmaking (34 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. Students must complete this course with a grade of ‘C’ or higher as a prerequisite to future Apparel, Textiles and Design courses.
     **Prereq:** FCS 224 with a grade of ‘C’ or better and Apparel, Textiles, and Design major; or Permission

   - **FCS 424 Apparel Product Line Development (34 cr)**
     **Gen Ed: Senior Experience**
     Advanced patternmaking, draping, and construction skills, combined with aesthetic principles of design, prepare students to create apparel lines. A senior capstone to design and product development studies. Two 3-hour studios a week and assigned work.
     **Prereq:** FCS 119, **FCS 319**, FCS 323, FCS 324, or Permission

3. Make the following curricular changes to the **Apparel, Textiles, and Design Major (B.S.F.C.S.)**

   This major considers apparel, textiles and design as basic human needs, consumer products, historical and cultural artifacts, and communication tools. Students who wish to graduate in
Apparel, Textiles and Design (ATD) must earn a grade of "C" or higher in all required ATD coursework.

Students are required to complete an advisor-approved focus area of 18 credits. Students select their focus area at the end of their Sophomore year. Standard program focus areas are Design, Marketing/Merchandising, and Product Development. Students may choose a related focus area by submitting a proposal to ATD Faculty clearly showing the relationship between Apparel, Textiles and Design and their proposed area of focus relative to the industry, career goals, and emerging opportunities. Other focus areas may include Costume Design, Advertising, Business, or International Studies. Upon approval a double major or minor could also be used instead as long as the other content area is relative to Apparel, Textiles and Design.

Required course work includes the university requirements (see regulation J-3) and:
- **Art 100**  World Art and Culture (3 cr)
- **Bus 321**  Marketing (3 cr)
- **Comm 101**  Fundamentals of Public Speaking (2 cr)
- **FCS 105**  Individual and Family Development (3 cr)
- **FCS 119**  Introduction to Fashion and the Apparel Industry (3 cr)
- **FCS 123**  Textiles (3 cr)
- **FCS 224**  Apparel Construction and Assembly Processes (3 cr)
- **FCS 319**  Digital Illustration for the Apparel Industry (3 cr)
- **FCS 323**  Apparel Product Development (3 cr)
- **FCS 324**  Patternmaking (3 cr)
- **FCS 329**  History of Western Dress (3 cr)
- **FCS 395**  Career Development in Apparel and Textiles (1 cr)
- **FCS 419**  Dress and Culture (3 cr)
- **FCS 424**  Apparel Product Line Development: Senior Capstone (3 cr)
- **FCS 448**  Consumer Economic Issues (3 cr)

One of the following (3 cr):
- **Psyc 101**  Intro to Psychology (3 cr)
- **Soc 101**  Intro to Sociology (3 cr)

One of the following (3-4 cr):
- **Econ 201**  Principles of Macroeconomics (3 cr)
- **Econ 202**  Principles of Microeconomics (3 cr)
- **Econ 272**  Foundations of Economic Analysis (4 cr)

**Anthropology elective (3 cr)**

**Computer applications elective (2-3 cr)**

**Additional FCS credits outside of the CTD curriculum (6 cr)**

An area of emphasis selected with the guidance of an advisor (18 cr)

**Courses to total 128 credits for this degree**

4. Make the following curricular changes to the **Food and Nutrition Major (B.S.F.C.S.)**

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 Accreditation Council for Education in Nutrition and Dietetics.

Acct 201 Introduction to Financial Accounting (3 cr)
Biol 120 Human Anatomy (4 cr)
Biol 121 Human Physiology (4 cr)
Biol 300 Survey of Biochemistry (3 cr)
FCS 205 Concepts in Human Nutrition (3 cr)
FCS 270 Scientific Principles of Food Preparation (3 cr)
FCS 275 Experimental Foods (2 cr)
FCS 301 Professional Skills in Dietetics I (1 cr)
FCS 361 Advanced Nutrition (3 cr)
FCS 362 Introduction to Clinical Dietetics (3 cr)
FCS 363 Medical Nutrition Therapy (4 cr)
FCS 364 Clinical Dietetics I (4 cr)
FCS 365 Advanced Nutrition Lab (1 cr)
FCS 384 Quantity Food Production and Equipment (3 cr)
FCS 385 Intro Dietetics Supervised Practice I (2 cr)
FCS 387 Food Systems Management (3 cr)
FCS 388 Intro Dietetics Supervised Practice II (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 (3 cr)
Psyc 101 Introduction to Psychology (3 cr)
Soc 101 Introduction to Sociology (3 cr)
Stat 251 Statistical Methods (3 cr)

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

One of the following (3 cr):
Chem 275 Carbon Compounds (3 cr)
Chem 277 Organic Chemistry I (3 cr)

One of the following (3 cr):
FCS 105 Individual and Family Development (3 cr)
Psyc 305 Developmental Psychology (3 cr)

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

One of the following (4-5 cr):
Biol 154, Introductory Microbiology and Lab (4 cr)
Biol 155
Biol 250, General Microbiology and Lab (5 cr)
Biol 255
At least 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)
FCS 484 Vegetarian Food and Nutrition (3 cr)

Courses to total 128 credits for this degree

**FOOD SCIENCE**

1. Add the following courses

**FS 401 Industrial Fermentations (3 cr)**
Science and technology associated with industrial-scale food fermentations. Cooperative: open to WSU degree-seeking students.
**Prereq:** Biol 250 and Biol 300

**FS 402 Ciders and Other Fermented Foods (3 cr)**
Short course: CIDERS & OTHER FERMENTED FOODS
Chemistry, microbiology, and technology associated with the production of cider, beer, and other food fermentations. Two half-day field trips required. Cooperative: open to WSU degree-seeking students.
**Prereq:** FS 304; FS 465

**FS 514 Starch Chemistry (3 cr)**
The course will provide insight into structure-function relationship of starch through case study-teaching in a student-centered classroom. Cooperative: open to WSU degree-seeking students.
**Prereq:** Chem 275 & 276 or Chem 277 & 278, Biol 380 or 300, or permission from instructor

2. Reactivate the following courses

**FS 516 Food Laws (2 cr)**
Become familiar with government statutes and regulations that contribute to a safe, nutritious, and wholesome food supply. Understand more about the law and the US legal system relevant to the regulation of the manufacture and sale of food and supplements, including jurisdictional issues, administrative law, and tort, contract, corporate, environmental, labor and criminal law issues. Senior or Graduate student standing recommended. Cooperative: open to WSU degree-seeking students.

**FS 522 Sensory Evaluation of Food and Wine (3 cr)**
Short course: SENSORY EVAL OF FOOD & WINE
See FS 422.

**FS 529 Dairy Products (3 cr)**
See FS 429.

**FS 530 Dairy Products Lab (1 cr)**
See FS 430.

**FS 565 Wine Microbiology and Processing (3 cr)**
Short course: WINE MICROBIOLOGY & PROCESSING
See FS 465.
3. Reactivate and change the following courses

FS 583 Advances in Cereal Science and Technology (23 cr)
Short course: ADVANCES IN CEREAL CHEM & TECH
Chemistry and functionality of cereal grains as related to their processing and product quality. This course provides in-depth information on wheat chemistry and technology as well as chemistry and uses of other cereal grains and legumes. Emphasis will be given to composition and functionality of wheat as related to processing and product quality, along with reviews of recent advances in cereal chemistry and technology. Cooperative: open to WSU degree-seeking students.

4. Change the following courses

FS J429/J529 Dairy Products (3 cr)
Dairy chemistry, microbiology, sanitation, product development and processing from cow to consumer. Cooperative: open to WSU degree-seeking students.
Prereq: Biol 250, Biol 300, and FS 303

FS 432 Food Engineering (3 cr)
Fundamentals of food engineering for improving the efficiency of food processing operations and the quality of processed food. Principles of heat transfer, steam, air-vapor mixtures, refrigeration and fluid flow as applied to food processing and storage. Recommended preparation: Phys 111. Cooperative: open to WSU degree-seeking students.
Prereq: FS 302 and FS 303
Coreq: FS 433

FS 433 Food Engineering Lab (1 cr)
To enhance the learning experience of the students taking FS 432 through laboratories, problem sessions and group discussions. Field Trip Required. Cooperative: open to WSU degree-seeking students.
Prereq or Coreq: FS 432

FS J470/J570 Advanced Food Technology (3 cr)
Physical principles of food preservation and recent advances in food technology including process control and control systems. Recommended Preparation: FS 432, and FS 460. Additional projects/assignments required for graduate credit. Cooperative: open to degree-seeking students.
Prereq: FS 302 and/or FS 303

INTERNATIONAL STUDIES
1. Make the following curricular changes to the International Studies Major:

Required course work includes the university requirements (see regulation J-3), the general requirements for the B.A. degree, and:

IS 495 International Studies Senior Seminar (3 cr)
Stat 251 Statistical Methods (3 cr)

One of the following groups of courses (4-6 cr):
Group A:
Econ 201 Principles of Macroeconomics (3 cr)
Econ 202 Principles of Microeconomics (3 cr)
or
Econ 272 Foundations of Economic Analysis (4 cr)

One of the following (3 cr):
IS 310 The United Nations (3 cr)  
PolS 235 Political Research Methods and Approaches (3 cr)  

One of the following (3 cr):  
- Geog 260 Introduction to Geopolitics (3 cr)  
- PolS 205 Introduction to Comparative Politics (3 cr)  
- PolS 237 International Politics (3 cr)  

Six credits chosen from:  
- Anth 220 Peoples of the World (3 cr)  
- Engl 485 Global Literatures in English (3 cr)  
- EnvS 225 International Environmental Issues Seminar (3 cr)  
- Geog 200 World Regional Geography (3 cr)  
- IS 195 International Studies Freshman Seminar (3 cr)  
- JAMM 490 Global Media (3 cr)  
- Soc 350 Food, Culture, and Society (3 cr)  

At least 12 cr from one of the following issue emphases: international relations, international economics and business, global resources and development (see courses below)  

At least 12 cr from one of the following regional emphases: Latin America, Europe, Asia (see courses below)  

Demonstrated proficiency in a modern foreign language correlating with the region of emphasis and equivalent to that gained from six semesters of university study. Exceptions include any class taught in English. (0-22 cr)  

In addition, international experience in the student's region of emphasis is required for all students in this major. The experience must extend consecutively for at least 10-12 weeks, be qualified for at least 12 credits, and include an academic project or assignment and immersion in the culture of the country. All costs associated with the international experience are the responsibility of the student.  

The requirement of international experience will normally be fulfilled by completing a registered credit program such as study abroad, student exchange, student teaching, or internship. In general, credits are registered on the UI campus; course work and field experience are taken abroad.  

In some cases, permission may be granted to complete noncredit work experience that places the student abroad for a contracted length of time. Normally this work assignment will be completed during the degree program. In some instances, prior work experience may be accepted based on the following criteria: verification, length, nature, recentness, and relevancy of experience.  

Issue Emphases in International Studies  
Recommended courses for completion of requirement (special topic courses may be used when approved by the director).  

A. International Relations  
- Geog 365 Political Geography (3 cr)  
- Hist 430 U.S. Diplomatic History (3 cr)  
- Hist 458 Military History (3 cr)  
- IS 320 Model United Nations (2 cr)  
- IS 321 UN and Related Agencies (1 cr)  
- IS 350 Sport and International Affairs (3 cr)  
- PolS 338 American Foreign Policy (3 cr)  
- PolS 440 International Organizations and International Law (3 cr)  
- PolS 449 World Politics and War (3 cr)  
- PolS 487 Political Violence and Revolution (3 cr)  
- Soc 335 Terrorism, Society and Justice (3 cr)
B. International Economics and Business
AgEc 481 Agricultural Markets in a Global Economy (3 cr)
Bus 381 International Finance (3 cr)
Bus 482 International Marketing (3 cr)
Econ 446 International Economics (3 cr)
Econ 447 International Development Economics (3 cr)
Geog 345 Global Economic Geography (3 cr)
IS 323 International Monetary and Trade Organizations (3 cr)

C. Global Resources and Development
AgEc 481 Agricultural Markets in a Global Economy (3 cr)
Anth 462 Human Issues in International Development (3 cr)
CSS 493 International Land Preservation and Conservation Systems (3 cr)
FCS 411 Global Nutrition (3 cr)
FS 436 Principles of Sustainability (3 cr)
Geog 313 Global Climate Change (3 cr)
Geog 350 Geography of Development (3 cr)
Geog 360 Population Dynamics and Distribution (3 cr)
Geog 409 Rural Development (3 cr)
IS 322 International Environmental Organizations (3 cr)
IS 410 NGOs in the International Systems (3 cr)
PolS 480 Politics of Development (3 cr)
Soc 340 Social Change & Globalization (3 cr)

Courses to total 120 credits for this degree
Other courses with an international component may be used as electives with permission of the school director.

2. Make the following curricular changes to the International Studies Minor:

   In consultation with the school director, students electing this academic minor submit an individual study plan emphasizing (a) international relations, (b) international economics and business, or (c) global resources and development.

   1. Basic Credit Requirements. At least 21 credits selected from the list of courses approved by the Martin School of International Studies, consisting of the following:

      - a minimum of 6 credits chosen from Anth 220, EnvS 225, Engl 485, Geog 200, IS 195, IS 310, JAMM 490, PolS 205*, PolS 237*, or Soc 350
      - a minimum of 6 credits from one of the following issue emphases: international relations, international economics and business, global resources and development (see courses above)
      - a minimum of 6 credits from one of the following regional emphases: Latin America, Europe, Asia (see courses above)

   2. Limitations. No course to be counted toward the minor may be taken by directed study without prior approval by the ISC.

Global Theme courses chosen from the following (6-9 cr)

Anth 220 Peoples of the World
Engl 485  Global Literatures
EnvS 225  International Environmental Issues
Geog 200  World Regional Geography
Geog 260  Introduction to Geopolitics
JAMM 490  Global Media
PolS 205  Comparative Politics
PolS 237  International Politics
Soc 350  Food, Culture, and Society

International Studies (IS) courses (9-12 cr)

Courses to total 24-18 credits for this minor. **At least 9 credits must be upper division.**

*Note: Student may take PolS 205 or PolS 237, but not both, to satisfy the requirements of this minor*

### MECHANICAL ENGINEERING

1. Change the following course

**ME 541 Mechanical Engineering Analysis (3 cr)**
Mathematical modeling and solutions to mechanical engineering problems; analytical solutions to linear heat and mass diffusion, waves and vibrations; introduction to approximate techniques.
**Prereq:** ME 345, Engr 350, Math 330 & Math 310 or Equivalent

1. Make the following courses cooperative and update their descriptions (Effective Spring 2016)

**ME J414/J514 HVAC Systems (3 cr)**
Application of thermodynamics, heat transfer, and fluid flow to understanding the psychrometric performance of systems and equipment; evaluating the performance characteristics, advantages, and disadvantages of the various types of HVAC systems including large tonnage refrigeration/chiller equipment, cooling coils, cooling towers, ducts, fans, and heat pump systems; economics of system and equipment selection. **Cooperative: open to WSU degree seeking students.**
**Prereq:** ME 345

**ME J450/J550 Computational Fluid Dynamics (3 cr)**
Governing equations of fluid flow; fundamentals of turbulence modeling; accuracy and stability of discretization schemes; verification and validation; boundary and initial conditions; grid generation; CFD post-processing. Application of CFD software (ANSYS FLUENT) through five hands-on CFD Labs including internal viscous pipe flows, external flows over a 2D airfoil and a circular cylinder, and flows in a 2D driven cavity. Additional projects/assignments required for graduate credits. **Cooperative: open to WSU degree seeking students.**
**Prereq:** Engr 335 and Math 330

**ME 540 Continuum Mechanics (3 cr)**
Stress and deformation of continua using tensor analysis; relationship between stress, strain, and strain rates in fluids and solids; applications. **Cooperative: open to WSU degree seeking students.**
**Prereq:** Permission

**ME 549 Finite Element Analysis (3 cr)**
Same as CE 546. Formulation of theory from basic consideration of mechanics; applications to structural engineering, solid mechanics, soil and rock mechanics; fluid flow. **Cooperative: open to WSU degree seeking students.**
**Prereq:** ME 341 or CE 342
MODERN LANGUAGES AND CULTURES

1. Add the following courses

- **Fren 105 Beginning French Conversation Lab (1 cr, max 2)**
  Short course: BGN FRENCH CONVERSATION LAB
  Practice in listening comprehension and conversational skills at the beginning French level.
  Graded P/F.

- **Fren 205 Intermediate French Conversation Lab (1 cr, max 2)**
  Short course: INTR FRENCH CONVERSATION LAB
  Practice in listening comprehension and conversational skills at the intermediate French level.
  Graded P/F.

- **Span 105 Beginning Spanish Conversation Lab (1 cr, max 2)**
  Short course: BGN SPANISH CONVERSATION LAB
  Practice in listening comprehension and conversational skills at the beginning Spanish level.
  Graded P/F.

- **Span 205 Intermediate Spanish Conversation Lab (1 cr, max 2)**
  Short course: INTR SPANISH CONVERSATION LAB
  Practice in listening comprehension and conversational skills at the intermediate Spanish level.
  Graded P/F.

2. Change the following courses

- **Fren 101 Elementary French I (4 cr)**
  *Gen Ed: International*
  Pronunciation, vocabulary, reading, spoken French, and functional grammar. *Students with two or more years of high school French may not enroll in Fren 101. Students with French experience who place higher than Fren 101 on the placement exam may not enroll in Fren 101, but may earn credit for Fren 101 by successfully completing a higher vertically-related course.*
  *Coreq:* Fren 101L

- **Fren 102 Elementary French II (4 cr)**
  *Gen Ed: International*
  Pronunciation, vocabulary, reading, spoken French, and functional grammar.
  *Coreq:* Fren 102L
  *Prereq:* Fren 101 or placement exam

- **Fren 201 Intermediate French I (4 cr)**
  *Gen Ed: International*
  Reading, grammar review, speaking, and writing. *Recommended Preparation:* Fren 102.
  *Coreq:* Fren 201L
  *Prereq:* Fren 102 or placement exam

- **Fren 202 Intermediate French II (4 cr)**
  *Gen Ed: International*
  Reading, grammar review, speaking, and writing. *Recommended Preparation:* Fren 201.
  *Prereq:* Fren 201 or placement exam

- **Fren 301 Advanced French Grammar (3 cr)**
  *Gen Ed: International*
  Comprehensive review of French grammar. Recommended for students who wish to continue in upper-division French courses and for prospective teachers of French. *Recommended Preparation:* Fren 202. *(Fall, alt/hrs.)*
Prereq: Fren 202 or placement exam

Span 101 Elementary Spanish I
Gen Ed: International
Credit not given for Span 101 after 104 with the exception of vertical credit (see Regulation I-2-d). Pronunciation, vocabulary, reading, spoken Spanish, and functional grammar. Students who have completed one or more high school units in Spanish. Students with Spanish experience who place higher than Span 101 on the placement exam may not enroll in Span 101 but may earn credit for Span 101 by successfully completing a higher vertically related course.
Coreq: Span 101L

Span 102 Elementary Spanish II (4 cr)
Gen Ed: International
Credit not given for Span 102 after 104. Pronunciation, vocabulary, reading, spoken Spanish, and functional grammar.
Coreq: Span 102L
Prereq: Span 101 or placement exam

Span 201 Intermediate Spanish I (4 cr)
Gen Ed: International
Reading, grammar review, speaking, and writing. Recommended Preparation: Span 102.
Coreq: Span 201L
Prereq: Span 102 or placement exam

Span 202 Intermediate Spanish II (4 cr)
Gen Ed: International
Reading, grammar review, speaking, and writing. Recommended Preparation: Span 201.
Prereq: Span 202 or placement exam

Span 301 Advanced Grammar (3 cr)
Gen Ed: International
Recommended for prospective teachers of Spanish. Recommended preparation: Span 202 or equivalent experience.
Prereq: Span 202 or placement exam

3. Make the following curricular changes to the Modern Languages & Cultures Minor:

Students must complete 20 credits for the Asian Studies, French, German, or Spanish minor, of which at least 9 must be upper-division. Vertical credits may be acquired per Regulation I for the 101/101L, 102/102L, 201/201L, and 202 courses as part of the 20 credits, but vertical credits may not be acquired per Regulation I for 300/400-level courses. It is not possible to challenge any upper-division courses for the minor. Study abroad credits with the number 404 and University of Idaho credits with the number 449, 498, or 499 will not automatically count toward the minor; they will be evaluated by a Modern Languages & Cultures advisor and may be used to complete the minor only upon approval.

Transfer credits may be applied toward a minor with the approval of the department offering the minor; however, the last nine credits applied to completion of the minor must be earned in 1) UI courses, 2) through UI study abroad, or 3) through student exchange programs, and may not include credits earned through correspondence study.

Students must complete at least 6 credits of the 9 credits of upper-division course work at the University of Idaho to complete the Asian Studies, French, German or Spanish minor.
A student must receive a C or better in any course to count for the Asian Studies, French, German, or Spanish minor.

4. Make the following curricular changes to the **Modern Language Business Major**:

   Designed to provide the student of modern languages with a liberal arts education and a core of business courses that will open doors to a career in international business.

   Required course work includes the university requirements (see [regulation J-3](#)), the general requirements for the B.A. degree, and:

   In addition to the course work specified for this major, an international experience is required. This requirement will normally be fulfilled by completing a program of studies abroad which takes place after the student has finished language study through the intermediate (200) level. The specific program must receive prior approval from the student’s MLC advisor and must be one that lasts a minimum of 12-15 weeks. The classes taken must earn a minimum of 12 upper-division (300/400 level) academic credits and be in subjects pertinent to the student’s language option. Such credits may be obtained by two consecutive summer programs.

   One modern language (Chinese, French, German, Japanese, or Spanish), elementary and intermediate (19-16 cr)

   Approved upper-division courses in the same language (including one business course or approved alternative in the target language) (21 cr)

   (...)

**MOVEMENT SCIENCES**

1. Change the following courses

   **AT 520 Clinical Education I (2 cr)**
   Practice of athletic training clinical skills under the direct supervision of an Approved Clinical Instructor a Preceptor with emphasis on the Level I clinical educational competencies. 4 hours lab.

   **AT 521 Clinical Experience I (4 cr)**
   Clinical practice in athletic training under the direct supervision of a Preceptor an Approved Clinical-Instructor/ Clinical Instructor with emphasis on patient care and the safe and appropriate use of skills and techniques.

   **AT 522 Clinical Education II (2 cr)**
   Practice of athletic training clinical skills under the direct supervision of a Preceptor an Approved Clinical-Instructor with emphasis on the Level I clinical educational competencies. 4 hours lab.

   **AT 523 Clinical Experience II (4 cr)**
   Clinical practice in athletic training under the direct supervision of a Preceptor an Approved Clinical-Instructor/ Clinical Instructor with emphasis on patient care and the safe and appropriate use of skills and techniques.

   **AT 550 Clinical Education III (2 cr)**
   Practice of athletic training clinical skills under the direct supervision of a Preceptor an Approved Clinical-Instructor with emphasis on the Level II clinical educational competencies. 4 hours lab.
AT 551 Clinical Experience III (4 cr)
Clinical practice in athletic training under the direct supervision of a Preceptor an Approved Clinical Instructor/ Clinical Instructor with emphasis on patient care and the safe and appropriate use of skills and techniques. 4 credits.

AT 552 Clinical Education IV (2 cr)
Practice of athletic training clinical skills under the direct supervision of a Preceptor an Approved Clinical Instructor with emphasis on the Level II clinical educational competencies. 4 hours lab.

AT 553 Clinical Experience IV (4 cr)
Clinical practice in athletic training under the direct supervision of a Preceptor an Approved Clinical Instructor/ Clinical Instructor with emphasis on patient care and the safe and appropriate use of skills and techniques.

2. Make the following curricular changes to the Master of Athletic Training (M.S.A.T.)

The M.S.A.T. in Athletic Training requires the following courses:

AT 506 Clinical Anatomy I (3 cr)
AT 507 Care and Prevention of Injuries and Illnesses (3 cr)
AT 508 Evaluation and Diagnosis of Injuries and Illnesses I (4 cr)
AT 509 Principles of Rehabilitation (3 cr)
AT 510 Therapeutic Modalities (2 cr)
AT 511 Ethics and Administration in Athletic Training (3 cr)
AT 512 Research Methods & Statistics I (3 cr)
AT 513 General Medicine for Athletic Trainers (3 cr)
AT 514 Psychology of Injury and Referral (3 cr)
AT 515 Research Proposal (3 cr)
AT 520 Clinical Education I (2 cr)
AT 521 Clinical Experience I (4 cr)
AT 522 Clinical Education II (2 cr)
AT 523 Clinical Experience II (4 cr)
AT 531 Clinical Anatomy II (3 cr)
AT 532 Evaluation and Diagnosis of Injuries and Illnesses II (4 cr)
AT 533 Applied Rehabilitation Techniques (3 cr)
AT 534 Therapeutic Modalities II (2 cr)
AT 535 Seminar in Athletic Training (1 cr)
AT 536 Research Methods & Statistics II (3 cr)
AT 538 Advanced Human Biomechanics (3 cr)
AT 539 Advanced Exercise Physiology (3 cr)
AT 540 Pharmacology for Athletic Trainers (3 cr)
AT 541 Seminar in Athletic Training II (2 cr)
AT 542 Research Presentation (1 cr)

AT 543 Neuroscience for Athletic Trainers
AT 547 Critical Issues in Athletic Training Clinical Practice (3 cr)
AT 550 Clinical Education III (2 cr)
AT 551 Clinical Experience III (4 cr)
AT 552 Clinical Education IV (2 cr)
3. Make the following curricular changes to the **Doctor of Athletic Training (D.A.T.)**

**Requirements for Doctoral Degrees**

Credit Requirements. For the Ph.D. and Ed.D., a minimum of 78 credits beyond the bachelor's degree is required; of these, at least 52 credits must be at the 500 level or above and at least 33 of the 78 credits must be in courses other than 600 (Doctoral Research and Dissertation). A maximum of 45 credits in dissertation and 5 credits of 599 (Non-thesis Research) may be used toward the degree. For the D.A.T., a minimum of 66 credits are required (including all dissertation work). Courses numbered below 300 may not be used to fulfill the requirements for a doctoral degree; courses numbered 300-399 may be used only in supporting areas. Individual programs may require additional course work. Applicants having a doctoral degree may obtain a second doctoral degree subject to the approval of the Graduate Council. The Graduate Council will establish the requirements for the second degree.

**Procedures for Doctor of Athletic Training**

**Dissertation Hours.** The D.A.T. has been designed to allow the students to complete their dissertation as efficiently and efficaciously as possible. All components of the dissertation are developed within specific didactic, research and clinical courses that are integrated throughout the curriculum. Therefore, formal "dissertation hours" are not required as these "hours" are already contained in the curriculum design. Requires 12 credit hours of dissertation (AT 600) to be eligible for graduation. These dissertation hours are to be completed after the completion of the academic coursework.

**NATURAL RESOURCES AND SOCIETY**

1. Reactivate and Change the following course

**CSSNRS 565 Advanced Instructional Strategies in Environmental Education Science Communication and the Environment** (3 cr)

Short course: COMM AND THE ENVIRONMENT

Expand on student knowledge of the components of lesson planning (thematic statements, goals, performance objectives, assessment, and state standards) and take lesson planning to a more sophisticated level, to introduce forms of authentic assessment, to increase student familiarity of the variety and quality of Env. Ed. curricula, and to explore various theories on learning and student development, to understand how they relate to lesson planning and teaching students.

Examines the flow of scientific information between experts and non-experts, with emphasis on educational settings. Project-based and includes practice in digital storytelling, documentary film, blogs, podcasts, public talks, and field experiences. McCall Field Campus. (Spring Only)

**PSYCHOLOGY AND COMMUNICATION STUDIES**

1. Change the following course

**COMM 433 355 Organizational Communication: Theory, Research, and Application** (3 cr)

Overview of current theory and research in organizational communication; interpretive and critical perspectives on examining organizational structure, organizational culture, leadership, organizational change, organization and environment relationships, management systems and power relationships. Recommended Preparation: Comm 235.

Equivalent Courses: Comm 235 and Comm 433
2. Drop the following course:

   **Comm 235 Organizational Communication (3 cr)**
   Philosophy, methods, and designs for studying communication system of a complex organization.

3. Make the following curricular changes to the Communicate studies minor:

   Comm 111 Introduction to Communication Studies (3 cr)
   Comm 233 Interpersonal Communication (3 cr)
   **Comm 235 Organizational Communication (3 cr)**
   Comm 335 Intercultural Communication (3 cr)
   **Comm 355 Organizational Communication (3 cr)**
   Comm 410 Conflict Management (3 cr)

   At least one of the following (3 cr):
   Comm 332 Communication and the Small Group (3 cr)
   Comm 340 Family Communication (3 cr)
   Comm 347 Persuasion (3 cr)
   Comm 404 Special Topics (3 cr)
   Comm 431 Applied Business and Professional Communication (3 cr)
   Comm 432 Gender and Communication (3 cr)
   **Comm 433 Organizational Communication Theory, Research, and Application (3 cr)**
   Comm 456 Nonprofit Fundraising (3 cr)
   Comm 491 Communication and Aging (3 cr)
   Comm 492 Dark Side of Communication (3 cr)

   **Courses to total 18 credits for this minor**

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**OTHER INFORMATIONAL CHANGES:**
Approve the following USAC Specialty Program Site *(Effective Spring 2016)*

Valencia, Spain