General Curriculum Report #266

UNIVERSITY OF IDAHO - REGISTRAR'S OFFICE
October 12, 2012

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.

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Aerospace Studies

1. Drop the following course [**Effective**: Summer 2013]

Aero 291 Four-Week Field Training Course (2 cr)
Intensive study of military education, experience in leadership, and management at an active Air Force installation.
Prereq: *Aero 101-102, 201-202, and perm of dept (by interview)*

Recommended Substitutions: None

Agricultural Economics and Rural Sociology

1. Change the following course [**Effective**: Summer 2013]

AgEc 301 ~~Agricultural~~ Managerial Economics: Production ~~I~~ (3 cr)
Microeconomic principles applied to agricultural production and the management of agribusiness firms with an introduction to spreadsheet based statistical, mathematical and optimization techniques for analyzing and solving real world management problems.
Prereq: *Econ 202 or 272; and Math 143 with a grade of 'C' or better*

Short Course Title: Managerial Econ:Production

AgEc 302 ~~Agricultural~~ Managerial Economics: Consumption & Markets ~~II~~ (3 cr)
Microeconomic principles applied to agricultural markets and consumer demand, with an introduction to spreadsheet based statistical and forecasting tools for analyzing associated real world pricing and consumer demand concerns facing managers of agribusiness firms.
Prereq: *Econ 202 or 272; and Math 143*

Short Course Title: Managerial Econ:Cons & Markets

AgEc 587 Regional Economic Development Methods (3 cr)
Methods course in the tools of regional economics and community development. Topics include Community Economic Profiling, Input-Output Analysis, Social Accounting, General Equilibrium Analysis, Social Benefit-Cost Analysis, and Non-Market Valuation. This is a cooperative course available to WSU degree-seeking students. (Fall only)
Prereq: *AgEc 586 or Permission*

Short Course Title: Regional Econ Dev Methods

AgEc 597 ~~(s) Graduate~~Applied Economics Teaching Practicum (~~1~~-3 cr ~~arr~~)
Graded Pass/Fail. The teaching practicum is an opportunity for students to improve teaching methods and techniques, and expand professional skills under the guidance of mentors from the AERS faculty. The teaching practicum may include classroom lectures, demonstrations, grading assistance, or other related activities.

Short Course Title: Applied Econ Teaching Practm

2. Change the curricular requirements of **Agribusiness** (B.S.Ag.Econ.) [**Effective**: Summer 2013]

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

Acct 482	Enterprise Accounting (3 cr)
AgEc 478	Advanced Agribusiness Management (3 cr)
AgEc 481	Agricultural Markets in a Global Economy (3 cr)

Select from the following (3 cr):

AgEc 451	Applied Environmental and Natural Resource Economics (3 cr)

AgEc 477 Law, Ethics, and the Environment (3 cr)

Select two of the following (6 cr):
AgEc 333 Introduction to Sales (3 cr)
BLaw 265 Legal Environment of Business (3 cr)
Bus 321 Marketing (3 cr)
Bus 413 Organizational Behavior (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)
Ag economics, economics, accounting, or business electives (12 cr)
Technical agriculture electives (12 cr)
Courses to total ~~128~~ 120 credits for this degree

3. Change the curricular requirements of **B.S.Ag.Econ Core** and **Agricultural Economics** (B.S.Ag.Econ.) [**Effective**: Summer 2013]

Core courses for B.S.Ag.Econ.

Acct 201 Introduction to Financial Accounting (3 cr)
Acct 202 Introduction to Managerial Accounting (3 cr)
AgEc 101 The Business of Agriculture (1 cr)
AgEc 278 Farm and Agribusiness Management (4 cr)
AgEc 289 Agricultural Markets and Prices (3 cr)
AgEc 301 Managerial Economics: Production ~~Agricultural Economics I~~ (3 cr)
AgEc 302 Managerial Economics: Consumption & Markets ~~Agricultural Economics II~~ (3 cr)
AgEc 356 Agricultural and Rural Policy (3 cr)
Chem 101 Introduction to Chemistry I **or**
Chem 111 Principles of Chemistry I (4 cr)
Comm 101 Fundamentals of Public Speaking (2 cr)
Econ 201 Principles of Economics (3 cr)
Econ 202 Principles of Economics (3 cr)
Engl 317 Technical Writing
(agribusiness majors may substitute Engl 313) (3 cr)
Stat 251 Statistical Methods (3 cr)

One of the following (4-5 cr):
Biol 102, Biol 102L Biology and Society and Lab(4 cr)
Biol 115 Cells and the Evolution of Life (4 cr)
MMBB 250, MMBB 255 General Microbiology and Lab (5 cr)

Agricultural Economics (B.S.Ag.Econ.)

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

AgEc 451 Applied Environmental and Natural Resource Economics (3 cr)

AgEc 478 Advanced Agribusiness Management (3 cr)
AgEc 481 Agricultural Markets in a Global Economy (3 cr)
Econ 351 Intermediate Macroeconomic Analysis (3 cr)
Econ 352 Intermediate Microeconomic Analysis (3 cr)
Math 160 Survey of Calculus **or**
Math 170 Analytic Geometry and Calculus I (4 cr)

~~Select from the following (3 cr):~~
~~AgEc 383 Economics for Natural Resource Managers (3 cr)~~
~~AgEc 451 Applied Environmental and Natural Resource Economics (3 cr)~~
~~Econ 385 Environmental Economics (3 cr)~~
Agricultural economics electives (3 cr)
Economics electives (6 cr)
Technical agriculture electives (12 cr)
Courses to total ~~128~~ 120 credits for this degree

Animal and Veterinary Science

1. Change the following courses [**Effective**: Summer 2013]

AVS 330 Genetics of Livestock Improvement (3 cr)
Genetic principles applied to breeding of farm animals. This is a cooperative course available to WSU degree-seeking students.
Prereq: *AVS 109~~Gene 314, Stat 251, and AVS 222~~*

AVS 363 Animal Products for Human Consumption (4 cr)
Same as FS 363. The meat, dairy, and egg industries, including product produced, processed, safety (HACCP), nutrition, distribution, quality, quantity, palatability, health, cooking, home storage, and consumer concerns. Special clothing and equipment required. Three lecture credits and one 3-hour lab per week. Recommended Preparation: Biol 115. This is a cooperative course available to WSU degree-seeking students.

2. Change the curricular requirements of **Animal Science** (Minor) [**Effective**: Summer 2013]

AVS 109	The Science of Animals that Serve Humanity (4 cr)
AVS 209	Science of Animal Husbandry (4 cr)
AVS 222	Animal Reproduction and Breeding **or** ~~(3 cr)~~
AVS 452	Physiology of Reproduction (3~~-4~~ cr)
~~AVS 305~~	~~Animal Nutrition (3 cr)~~
~~AVS 306~~	~~Feeds and Ration Formulation (4 cr)~~
~~AVS 363~~	~~Animal Products for Human Consumption (4 cr)~~

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 363	Animal Products for Human Consumption (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)

~~One~~ Three credits of the following ~~(3 cr)~~:

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. Change the following course [**Effective**: Summer 2013]

Art 110 Integrated Art and Design Communication (2 cr)
Introduction to the history, theory, language, principles and processes of art and design. Lectures, readings and writing assignments are connected to the studio experiences in Art 121.
~~***Coreq:*** *Art 121*~~

2. Change the following course [**Effective**: Summer 2013]

Arch 574 Building Performance Simulation for Integrated Design (3 cr)
Same as ME 571. This course focuses on design decisions that impact energy, thermal, visual and acoustic comfort with a strong emphasis on building simulation tools. This course provides students with the understanding of the nature of building thermal comfort, building envelope behavior, ventilation requirements, indoor air quality, passive cooling systems, energy conservation, and the importance of iterative building simulation in achieving high performance buildings. (Spring only)

3. Change the curricular requirements of **Interior Design** (Minor) [**Effective**: Summer 2013]

~~Arch 151~~	~~Introduction to the Built Environment (2 cr)~~
~~FCS 123~~	~~Textiles (3 cr)~~
ID 151	Introduction to Interior Design (3 cr)
ID 281	History of Interiors I (3 cr)
ID 282	History of Interiors II (3 cr)
ID 368	Materials and Specifications (3 cr)
ID 443	Universal Design (3 cr)

Directed electives as approved by ID advisor (~~5~~ 3 cr)
Courses to total ~~20~~ 18 credits for this minor

Biological and Agricultural Engineering

1. Change the following course [**Effective**: Summer 2013]

BAE 458 Open Channel Hydraulics (3 cr)
~~Same as~~See CE 428. ~~Hydraulics of uniform and varied flow in open channels with fixed and movable beds. Recommended Preparation: CE 322.~~

BAE 478 Engineering Design I (3 cr)
May be used as core credit in J-3-d. The capstone design sequence for biological and agricultural engineering majors. Course topics include research, design, experimental methods, specifications, prototyping, and verification; report writing, documentation and oral presentations. Topics, from industrial sponsorship, are considered in the context of a major design project involving a team of students. Projects incorporate realistic engineering constraints including environmental concerns, sustainability, ethical, safety, manufacturability, social and political considerations.~~Intro to design process, CAD/CAM facility, product liability, and project scheduling; formulation of a design problem.~~
Prereq: ~~*Senior standing or Permission*~~*BAE 242, Engr 320, Engr 335, and Engr 350*

BAE 479 Engineering Design II (3 cr)
May be used as core credit in J-3-d. *Continuation of* the capstone design sequence for biological and agricultural engineering majors. Course topics include research, design, experimental methods, specifications, prototyping, and verification; report writing, documentation and oral presentations. Topics, from industrial sponsorship, are considered in the context of a major design project involving a team of students. Projects incorporate realistic engineering constraints including environmental concerns, sustainability, ethical, safety, manufacturability, social and political considerations~~Individual or team design of an agricultural related problem; incl synthesis, analysis, construction, and testing; final report reqd. Two 3-hr labs a wk. Recommended Preparation: BAE 478.~~
Prereq: *BAE 478*

Biological Sciences

1. Add the following course [**Effective**: Spring 2013]

Biol 548 Evolutionary Ecology (3 cr)
This course develops the theoretical underpinnings for the field of evolutionary ecology and illustrates how this conceptual basis is used to address major questions of social and economic importance such as the spread of invasive species and the evolution of infectious disease. This is a cooperative course available to WSU degree-seeking students.

2. Change the curricular requirements of **Biology** (B.A. or B.S.) [**Effective**: Fall 2012]

To graduate in this program, students must earn a minimum grade of C in Biol 115 and Biol 116 and must have a minimum gpa of 2.40 in Biol 115, Biol 116, Biol 212, Biol 213, and Biol 310.

Required course work includes the university requirements, and the following major requirements (electives to be chosen in consultation with the departmental advisor).

Biol 101	Perspectives in Biology (1 cr)
Biol 115	Cells and the Evolution of Life (4 cr)
Biol 116	Organisms & Environments (4 cr)
Biol 212	Molecular and Cellular Biology (4 cr)
Biol 213	Principles of Biological Structure and Function (4 cr)
Biol 310	Genetics (4 cr)
Biol 314	Ecology and Population Biology (4 cr)
Biol 411	Senior Capstone (2 cr)
Biol 421	Advanced Evolutionary Biology (3 cr)
Chem 111	Principles of Chemistry I (4 cr)
Chem 112	Principles of Chemistry II (5 cr)
Chem 275, Chem 276	Carbon Compounds and Lab **or**
Chem 277, Chem 278	Organic Chemistry and Lab (4 cr)
Math 160	Survey of Calculus **or**
Math 170	Analytic Geometry and Calculus I (4 cr)
MMBB 380	Introductory Biochemistry **or**
MMBB 300	Survey of Biochemistry (3-4 cr)
Phys 111, Phys 111L	General Physics I and Lab (4 cr)
Phys 112, Phys 112L	General Physics II and Lab (4 cr)
Stat 251	Statistical Methods (3 cr)

NOTE: Students considering graduate school in biology are strongly encouraged to take Math 170, Chem 277/278, and MMBB 380.
9 credits of approved electives from the following list are required (categories are intended only as a guide for student and advisor use). Additional classes can be substituted with prior approval of adviser and chairperson.

Natural History

Biol 478	Animal Behavior (3 cr)
Biol 481	Ichthyology (4 cr)
Biol 483	Mammalogy (3 cr)
Biol 489	Herpetology (4 cr)

REM 341	Systematic Botany (3 cr)
WLF 482	Ornithology (4 cr)

Anatomy/Physiology

Biol 423	Comparative Vertebrate Physiology (3 cr)
Biol 428	Microscopic Anatomy (4 cr)
Biol 450	Comparative Vertebrate Reproduction (3 cr)
Ent 484	Insect Anatomy and Physiology (3 cr)
MMBB 460	Microbial Physiology (3 cr)
PlSc 415	Plant Pathology (3 cr)

Quantitative/Integrative Biology

Biol 425	ST: Experimental Field Ecology (3 cr)
Biol 448	Plant-Animal Interactions (3 cr)
Biol 456	Computer Skills for Biologists (3 cr)
Ent 441	Insect Ecology (3 cr)
Math 437	Mathematical Biology (3 cr)
MMBB 425	Microbial Ecology (3 cr)
WLF 440	Conservation Biology (3 cr)
WLF 448	Fish and Wildlife Population Ecology (4 cr)

Molecular/Cellular/Developmental (MCD) Biology

Biol 444	Genomics (3 cr)
Biol 461	Neurobiology (3 cr)
Biol 474	Principles of Developmental Biology (3 cr)
Chem 414	Applications of Nanomaterials in Biomolecular Engineering (3 cr)
MMBB 409	Immunology (3 cr)
MMBB 440	Advanced Lab Techniques (4 cr)
MMBB 475	Cell Biology (3 cr)
MMBB 488	Genetic Engineering (3 cr)

In addition to the above electives, Biology majors are encouraged to enroll in at least 3 credits of coursework that emphasizes social, political or philosophical aspects of biology. A list of suggested courses will be provided by the student's advisor and is available on the department's website.

Biology B.A. students must also complete:

6 credits (two courses) in the humanities in addition to the minimum university-wide core requirement of 14 credits in the humanities/social sciences*

3 credits (one course) in the social sciences in addition to the minimum university-wide core requirement of 14 credits in the humanities/social sciences*

Foreign Languages 0-16 credits (zero-four courses) competence in one foreign language equivalent to that gained by the completion of four semesters of college courses through the intermediate level. This requirement may be satisfied by the completion of either of the following options (1) 16 credits or four high-school units in one foreign language, or (2) 12 credits in one foreign language, and one three-credit course in literature translated from the same language. The 12 credits may be satisfied by three high-school units in one foreign language.

**Courses satisfying the humanities requirement are those dealing with the arts, literature, and philosophy. Courses satisfying the social science requirement are those courses dealing with a person's social condition including social relations, institutions, history, and participation in an organized community. Refer to online degree audit system through Web registration system or your academic advisor for a listing of appropriate courses.*

Biology B.S. students must also complete:

3 credits (one course) in the humanities in addition to the minimum university-wide core requirement of 14 credits in the humanities/social sciences*

3 credits (one course) in the social sciences in addition to the minimum university-wide core requirement of 14 credits in the humanities/social sciences*

**Courses satisfying the requirement are those dealing with the arts, literature, and philosophy. Courses satisfying the social sciences requirement are those courses dealing with a person's social condition including social relations, institutions, history, and participation in an organized community. Refer to online degree audit system through Web registration system or your academic advisor for a listing of appropriate courses.*

A student may substitute for these requirements the successful completion of an academic minor or an area of emphasis of at least 18 credits approved by the Biological Sciences Department.

Courses to total ~~128~~ 120 credits for this degree

Chemical and Materials Engineering

1. Add the following courses [**Effective**: Summer 2013]

ChE 210 Integrated Chemical Engineering Fundamentals (1 cr)
Recitation support for fundamental STEM courses and process principles including problem solving and documentation skills. Twice a week, 2 hour recitation sessions. Graded P/F.
***Prereq**: ChE 110 and ChE 123*

Short Course Title: Integrated ChE Fundamentals

ChE 307 Group Mentoring (1 cr, max 3)
Mentoring of student groups in engineering classes where a process education environment is used; students taking this course will improve their engineering skill in the area they are mentoring as well as improving their team, communication, and leadership skills. Students must attend all classes or labs where group activities in the process education environment are done (a minimum of 2 mentoring sessions per week).
Prereq: *Permission*

MSE 393 Materials Engineering Projects (1-3 cr, max 9)
Problems of a research exploratory nature.
Prereq: *Permission*

MSE 507 Microstructures and Defects (3 cr)
This course correlates microstructure and defects with mechanical, physical and chemical properties of engineering materials. The fundamental characteristics of point, line, surface and volume defects in crystals will be elucidated on an advanced level. The essential elements of microstructure and their role in engineering materials will be discussed.
Prereq: *Graduate standing or Permission*

MSE 511 Nuclear Degradation Mechanisms (3 cr)
Topics include various degradation mechanisms as applicable to nuclear structural components, including corrosion, creep, radiation damage etc.
Prereq: *Graduate standing or Permission*

MSE 512 Nuclear Components Inspection (3 cr)
This course will cover various non-destructive testing techniques to evaluate the environmental degradation of the nuclear structural components. Remnant life estimation of structural components exposed to fatigue, creep and stress corrosion cracking service conditions will be discussed.
Prereq: *Graduate standing or Permission*

2. Change the following courses and change them from dormant to active [**Effective**: Summer 2013]

MSE 517 Reaction Kinetics ~~of Metallurgical Reactions~~ (3 cr)
Application of absolute reaction rate theory; time and temperature dependence; kinetics of gas-solid reactions; kinetics of solid-solid reactions; corrosion, diffusion, and recrystallization. (Alt/yrs)
Prereq: *Materials Science Engineering graduate student or Permission*

MSE 525 Electronic Materials (3 cr)
The chemistry, physics, and materials science relating to fabrication and processing steps; materials properties and device properties; structures of electronic materials; electronic energy band; electrical properties of semiconductors; optical properties; interface; thermodynamics of compound semiconductors; semiconductor devices; optoelectronic devices; single crystal growth; amorphous silicon; control of semiconductor conductivity; dielectric materials; piezoelectronic materials; superconducting materials. (Spring only)
Prereq: *Materials Science Engineering graduate student or Permission*

3. Change the following courses [**Effective**: Summer 2013]

MSE 308 Thermodynamics of Materials (3 cr)
First, second, and third laws of thermodynamics. Reaction equilibria. Phase diagrams. Thermodynamics of metallic and ceramic materials.~~Intro; first, second, and third law; auxiliary functions; behavior of solutions; free energy composition and phase diagrams of binary systems; reaction equilibria in systems containing components in condensed solutions; ternary diagrams; thermodynamics of alloys and ceramic materials~~
Prereq: *MSE 201~~, MSE 340, Math 310,~~ and Chem 112*
Coreq: *Math 310*

1. Change the curricular requirements of **Chemical Engineering** (B.S.Ch.E.) [**Effective**: Summer 2013]

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

ChE 110	Introduction to Chemical Engineering (1 cr)
ChE 123	Computations in Chemical Engineering (2 cr)
ChE 210	Integrated Chemical Engineering Fundamentals (1 cr)
ChE 223	Material and Energy Balances (3 cr)
ChE 326	Chemical Engineering Thermodynamics (3 cr)
ChE 330	Separation Processes I (3 cr)
ChE 340	Transport and Rate Processes I (4 cr)
ChE 341	Transport and Rate Processes II (4 cr)
ChE 423	Reactor Kinetics and Design (3 cr)
ChE 433, ChE 434	Chemical Engineering Lab I, II (2 cr)
ChE 444	Process Analysis and Control (3 cr)
ChE 445	Digital Process Control (3 cr)
ChE 453	Process Analysis and Design I (3 cr)

ChE 454	Process Analysis and Design II (3 cr)
ChE 491	Seminar (1 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)
Chem 305, Chem 307	Physical Chemistry and Lab (4 cr)
Chem 372, Chem 374	Organic Chemistry II and Lab (4 cr)
Engr 210	Engineering Statics (3 cr)
Engr 240	Introduction to Electrical Circuits (3 cr)
Engr 320	Engineering Thermodynamics and Heat Transfer (3 cr)
Engr 335	Engineering Fluid Mechanics (3 cr)
Math 170	Analytic Geometry and Calculus (4 cr)
Math 175	Analytic Geometry and Calculus II (4 cr)
Math 275	Analytic Geometry and Calculus III (3 cr)
Math 310	Ordinary Differential Equations (3 cr)
Phys 211	Engineering Physics I (3 cr)
Phys 212	Engineering Physics II (3 cr)

Chemical engineering or Material Science and Engineering numbered 390 or greater technical electives (3 cr)
Chemical/bioscience elective course (3 cr)
Chemical/bioscience elective lab (1 cr)
Computer science elective in a programming language (~~2~~ 3 cr)
Economics elective (3 cr)
Humanities and social sciences ~~electives with one upper-division course~~ (~~12~~ 9 cr)
Communication electives (2 cr)
Mathematics electives numbered 300 or greater (3 cr)
Technical electives in math, science, or engineering numbered 300 or greater (6 cr)
Courses to total ~~128~~ 128 credits for this degree, not counting Engl 101, Math 143, and other courses that might be required to remove deficiencies.

Students majoring in chemical engineering must earn a grade of C or better in each of the following courses before registration is permitted in upper-division chemical engineering courses: Chem 111 and Chem 112; ChE 223; Engr 210, Engr 320, and Engr 335; and Math 275 and Math 310.

Students transferring ChE 223 or its equivalent from a university without an ABET accredited chemical engineering program must pass a test on the subject matter of this course before acceptance of the course for certification.

A passing grade is required in each of the following courses before registration is permitted in upper-division chemical engineering courses: ChE 123, computer science elective, Engl 102, Math 170 and Math 175, and Phys 211 and Phys 212.

Any student majoring in chemical engineering may accumulate no more than four grades of D or F in UI mathematics, science, or engineering courses that are used to satisfy junior certification requirements. Included in this number are multiple repeats in a single class or single repeats in multiple classes. A warning will be issued in writing to students who have accumulated two grades of D or F in UI mathematics, science, or engineering courses used to satisfy curricular requirements.

An average GPA of at least 2.0 is required for all chemical engineering courses used to satisfy the curricular requirements.

Rationale: Clarify the curriculum specifications being enforced by the degree audit program. Adjusting minimum to accommodate State Board Core transfer students while requiring additional changing UI core to not impact degree specifications in future. Adding English 102 to junior certification criteria to begin enforcing long standing UI regulation about continuous enrollment until passing 102.

2. Change the curricular requirements of **Masters Science and Engineering** (B.S.M.S.E.) [**Effective**: Summer 2013]

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

Chem 111	Principles of Chemistry I (4 cr)
Chem 112	Principles of Chemistry II (5 cr)
Chem 305	Physical Chemistry (3 cr)
Chem 307	Physical Chemistry Lab (1 cr)
Engl 317	Technical Writing (3 cr)
Engr 210	Engineering Statics (3 cr)
Engr 240	Introduction to Electrical Circuits (3 cr)
Engr 335	Engineering Fluid Mechanics (3 cr)
Engr 350	Engineering Mechanics of Materials (3 cr)
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)
Math 310	Ordinary Differential Equations (3 cr)
MSE 101	Intro to Metallurgy and Materials Science (2 cr)
MSE 201	Elements of Materials Science (3 cr)
MSE 308	Thermodynamics of Materials (3 cr)

MSE 313	Physical Metallurgy (4 cr)
MSE 340	Transport and Rate Processes I (4 cr)
MSE 412	Mechanical Behavior of Materials (3 cr)
MSE 413	Phase Equilibria in Materials (3 cr)
MSE 417	Instrumental Analysis (3 cr)
MSE 423	Corrosion (3 cr)
MSE 427	Ceramic Materials (3 cr)
MSE 432	Fundamentals of Thin Film Fabrication (3 cr)
MSE 434	Fundamentals of Polymeric Materials (3 cr)
MSE 453	Process Analysis and Design I (3 cr)
MSE 454	Process Analysis and Design II (3 cr)
MSE 456	Metallic Materials (3 cr)
MSE 464	Materials Physics and Engineering (3 cr)
Phil 103	Ethics (3 cr)
Phys 211	Engineering Physics I (3 cr)
Phys 212, Phys 212L	Engineering Physics II and Lab (4 cr)
Stat 301	Probability and Statistics (3 cr)

Computer Science elective in a programming language (3 cr)
Economics Elective (3 cr)
Humanities and Social Science electives ~~with one upper division course~~ (~~9~~ 6 cr)
MSE or ChE elective numbered 300 or greater (3 cr)
Technical electives in math, science, or engineering numbered 300 or greater (3 cr)
Courses to total ~~129~~ 127 credits for this degree, not counting Engl 101 and mathematics courses numbered lower than Math 170.

Students majoring in materials science engineering must earn a grade of C or better in each of the following courses before registration is permitted in upper-division materials science engineering courses: Chem 111 and Chem 112, Engr 210 and Engr 335, Math 275 and Math 310, MSE 201, and Phys 211 and Phys 212.

A passing grade is required in each of the following courses before registration is permitted in upper-division materials science engineering courses: computer science elective, Engl 102, Math 170 and Math 175, and MSE 101.

Any student majoring in materials science engineering may accumulate no more than four grades of D or F in UI mathematics, science, or engineering courses that are used to satisfy junior certification requirements. Included in this number are multiple repeats in a single class or single repeats in multiple classes. A warning will be issued in writing to students who have accumulated two grades of D or F in UI mathematics, science, or engineering courses used to satisfy curricular requirements.

An average GPA of at least 2.0 is required for all materials science engineering courses used to satisfy the curricular requirements.

3. Change the curricular requirements of **Advanced Materials Technology** (GR Certificate) [**Effective**: Summer 2013]

Note: A grade of 'B' or higher is required in all coursework for this academic certificate.

Twelve credits from the following:

MSE 434	Fundamentals of Polymeric Materials (3 cr)
MSE 456	Metallic Materials (3 cr)
MSE 523	Corrosion (3 cr)
MSE 527	Ceramic Materials (3 cr)
MSE 538	Fundamentals of Nuclear Materials (3 cr)
MSE 564	Materials Physics and Engineering (3 cr)

Courses to total 12 credits for this certificate

Chemistry

1. Change the following course [**Effective**: Summer 2012]

Chem J436/J535 ~~Principles of Chemical Instrumentation~~Electronics for Scientists (2-4 cr, max 4)
Theory and application of analog and digital electronics used in scientific instrumentation. Registration for Chem 535 requires completion of an additional term paper or other assignment (Fall, alt/yrs).~~Practical theory and application of modern analog/digital electronics and small computers to chemical measurement and control systems. Registration for Chem 535 requires completion of an additional term paper or other assignment. One hr of lec and one 3 hr lab a wk. (Fall only)~~
Prereq: ~~*Chem 253 or 454, Phys 212, or*~~ *Permission*

Civil Engineering

1. Change the the following course [**Effective**: Summer 2012]

CE 330 Fundamentals of Environmental Engineering (~~4~~ 3 cr)
Principles of engineered environmental systems, including physical, chemical, and microbiological processes; types and effects of pollutants; regulations; treatment of water, wastewater, sludges, and solid waste; control of air and agricultural pollution. ~~Three lec and one 3-hr lab a wk.~~
Prereq: *Engr 335, Chem 111, CE 215 and Math 310*

2. Change the following course [**Effective**: Summer 2013]

CE 428 Open Channel Hydraulics (3 cr)
~~See~~ Same as BAE 458. Hydraulics of uniform and varied flow in open channels with fixed and movable beds. Recommended Preparation: CE 322.This is a cooperative course available to WSU degree-seeking students.

3. Change the curricular requirements of **Structural Engineering** (GR Academic Certificate) [**Effective**: Summer 2013]

Note: A grade of 'B' or higher is required in all coursework for this academic certificate.

CE 546 Finite Element Analysis (3 cr)

One course from the following (3 cr):
CE 542 Advanced Design of Steel Structures (3 cr)
CE 547 Advanced Reinforced Concrete (3 cr)

Electives (6 cr):
CE 504 Special Topics (3 cr)
CE 510 Advanced Mechanics of Materials (3 cr)
CE 541 Reliability of Engineering Systems (3 cr)
CE 542 Advanced Design of Steel Structures (3 cr)
CE 543 Dynamics of Structures (3 cr)
CE 545 Matrix Structural Analysis (3 cr)
CE 547 Advanced Reinforced Concrete (3 cr)

Electives may include one of the following:
CE 521 Sedimentation Engineering (3 cr)
CE 561 Engineering Properties of Soils (3 cr)
CE 562 Advanced Foundation Engineering (3 cr)
CE 566 Geotechnical Earthquake Engineering (3 cr)
CE 575 Advanced Pavement Design and Analysis (3 cr)
Courses to total 12 credits for this certificate

Computer Science

1. Change the following course [**Effective**: Summer 2013]

CS 481 CS Senior Capstone Design II (~~4~~ 3 cr)
Continuation of CS480. Application of formal design techniques to development of a large computer science project performed by students working in teams. Significant lab work required.
Prereq: *CS 480*

Electrical and Computer Engineering

1. Change the following course [**Effective**: Summer 2013]

ECE 210 Electrical Circuits I (3 cr)
Intro to d.c. and transient electrical circuits; mesh and nodal analysis; dependent sources; circuit theorems; transient analysis with differential equations. Three lec and one recitation a wk.
Prereq: Math 175 with a grade of 'C' or better
Coreq: *ECE 211, Math 310 and Phys 212/212L*

ECE 212 Electrical Circuits II (3 cr)
Continuation of ECE 210. Intro to sinusoidal steady state circuits; time and frequency domain analysis; Laplace transforms; Fourier series; transfer functions; Bode plots, filters. Three lec and one recitation a wk.
Prereq: *ECE 210, Math 310, and Phys 212/212L; a grade of 'C' or better is required for all prerequisite courses*
Coreq: *ECE 213*

ECE 420 Energy Systems II (3 cr)
Three-phases, three-phase transformers, winding theory, rotating waves, steady state operation of three-phase synchronous and steady state operation of single and three-phase induction machines, and AC drives. Labs: three-phase measurements, three-phase transformers, synchronous machines, induction machines. ECE 420 cannot be counted as a graduate depth area course.
Prereq: *ECE 320 and ECE 321*

ECE 427 Power Electronics (3 cr)
Characteristics, limitations, and application of solid state power devices; practical aspects of power electronic converters~~ design~~, including rectifiers and inverters; choppers, AC phase control, and device gating techniques. This is a cooperative course available to WSU degree-seeking students.
Prereq: *ECE 420*

ECE 524 Transients in Power Systems (3 cr)
Analysis and simulation of electromagnetic transients on electric power systems; switching transients; lightning transients; mitigation of transient overvoltages; surge protection; modeling power systems apparatus for transient studies.~~Voltage transients; overvoltages during faults; recovery voltage characteristics; arc restrikes, switching surges, ferroresonance, and nonlinear phenomena.~~
Prereq: ~~*ECE 422*~~*ECE 421*

ECE 525 Power System Protection and Relaying (3 cr)
Power systems protection fundamentals; dynamic response of current voltage measurement devices; numerical relay fundamentals; review of symmetrical components; application of overcurrent elements, distance elements and differential elements for the real time protection and monitoring of transmission, distribution and generation apparatus.~~Power system faults and applicable relay systems; review of symmetrical components as applied to fault current and consideration of lightning and voltage surge protection.~~
Prereq: *ECE 422 or Permission*

English

1. Change the curricular requirements of **English** (B.A.) [**Effective**: Summer 2012]

...
D. Teaching Emphasis

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

Literary History (15 cr)
Engl 257 or Literature of Western Civilization (3 cr)
Engl 258
Engl 341 or Survey of British Literature (3 cr)
Engl 342
Engl 343- Survey of American Literature (6 cr)
Engl 344
Engl 345 Shakespeare (3 cr)

Language (10 cr)
Engl 201 English Grammar, Key Concepts and Terms (1 cr)
Engl 441 Intro to the Study of Language (3 cr)
Two linguistics courses from the following (6 cr)
Engl 442 Introduction to English Syntax (3 cr)
Engl 443 Language Variation (3 cr)
Engl 496 History of the English Language (3 cr)

Writing (9 cr)
Engl 309 Advanced Prose Writing (3 cr)
Engl 401 Writing Workshop for Teachers (3 cr)
One course from the following (3 cr):
Engl 208 (s) Personal and Exploratory Writing (3 cr)
Engl 291 Beginning Poetry Writing (3 cr)
Engl 292 Beginning Fiction Writing (3 cr)
Engl 293 Beginning 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)

One 400-level literature course (3 cr)
One 300 or 400-level literature course (3 cr)
One elective course at the 300 or 400-level (3 cr)

Capstone
This requirement is fulfilled for Teaching Emphasis majors by EDCI 485, Internship.
Courses to total 120 credits for this degree

Family and Consumer Sciences

1. Add the following course [**Effective**: Summer 2013]

FCS 446 Financial Counseling and Debt Management (3 cr)

Course content includes an examination of financial counseling and debt management with individuals and families. Topics include principles of financial counseling, budgets, financial statements, credit, debt, collection policies and practices, mortgages, foreclosures, and bankruptcy. After completion, students are eligible to take a national exam towards becoming an Accredited Financial Counselor. Recommended Preparation: FCS 346. (Fall only)

Short Course Title: Financial Couns. & Debt Mgt.

2. Change the following courses [**Effective**: Summer 2013]

FCS 119 Introduction to Fashion and the Apparel Industry ~~from Concept to Consumer~~ (3 cr)
Introduction to the sewn product manufacturing and merchandising industry; ~~focus on~~overview of socio-cultural, ~~social-psychological, cultural,~~ historic, aesthetic, design, business, and economic factors; emphasis on careers in the sewn products industry. (Fall only)

Short Course Title: Intro Fashion/Apparel Industry

FCS 170 Introductory Foods (3 cr)
Basic concepts and techniques of food preparation; applied sensory evaluation of food. (Fall only)
***Prereq**: Family and Consumer Sciences major or Permission*

FCS 224 Apparel Construction and Assembly Processes~~Design I~~ (3 cr)
Design conception, fabric characteristics, garment construction and assembly~~assembling~~, principles of fitting, quality control for the apparel industry. ~~One lec and five hrs of lab a wk~~Two 3-hour studios a week and assigned work. (Spring only)
***Prereq:** FCS 123; and Clothing, Textiles, and Design; or Child, Family, and Consumer Sciences/Family Life major; or Permission(Spring only)*

Short Course Title: Apparel Construction & Assembly

FCS 270 Intermediate Foods (3 cr)
Web-assisted course focusing on food safety, menu planning, and cultural and religious influences on food choices, and role of food in promotion of a healthy lifestyle. Practice in communicating foods information through food demonstrations and news articles. Web-based modules, with one 2-hr face-to-face lab per week. (Spring only)
***Prereq:** FCS 170; and* Family and Consumer Sciences major or Permission

FCS 305 Nutrition Related to Fitness and Sport (2 cr)
Identification of energy, macro/micro nutrient and fluid requirements during exercise; evaluation of dietary regimens and ergogenic aids for pre and post competition, weight maintenance, and wellness. (Fall only)
***Prereq:** FCS 205; and Family and Consumer Sciences major or Movement Sciences major or Permission*

FCS 319 ~~Adobe Illustrator~~ Digital Illustration for the Apparel Industry (3 cr)
Introduction to ~~Adobe Illustrator~~digital illustration software including apparel illustration tools, editing and coloring, working in the digital environment, and digital board building. Students follow an ~~industry~~ industry typical concept and design process for a target customer, including corresponding design boards, line of garments, line presentation, and creation of an online portfolio site.
***Prereq:** FCS 119, FCS 123, and FCS 224*

Short Course Title: Digital Illus/Apparel Indust

FCS 323 ~~Evaluation of~~ Apparel Product Development~~and Textiles~~ (3 cr)
Analysis of textile and apparel products and processes relative to design, development, and production methods, ~~product performance~~including evaluation of~~, and~~ consumer value.
***Prereq:** FCS 123 and FCS 224; or Permission*

FCS 324 ~~Apparel Design II~~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. ~~(Fall only)~~
***Prereq**: FCS 224 and Clothing, Textiles, and Design major; or Permission*

FCS 385 ~~Quantity Food Production Lab~~Intro Dietetics Supervised Practice I (2 cr)
CPD supervised practice experience with emphasis in quantity food production. Weekly rotations in food service facilities with on-line discussions.~~Lab to accompany FCS 384 for students accepted into CPD program only.~~ One 3-hour lab and one recitation per wk. (Fall only)
***Prereq:** FCS 270*
***Coreq:** FCS 384*

Short Course Title: Intro Diet Supr Pract I

FCS 388 Food Systems Management Lab (1 cr)
CPD supervised practice experience including introductory clinical, community, and food service management activities and facility rotations.~~Lab to accompany FCS 387 for students accepted into CPD program only.~~ One 3-hour lab per wk. (Spring only)
***Prereq:** FCS 384*
***Coreq:** FCS 387*

Short Course Title: Intro Diet Supr Pract II

FCS 424 ~~Aesthetics for the~~ Apparel Product Line Development: Senior Capstone ~~Professional~~ (3 cr)
Advanced pattern-making, draping, and construction skills, combined with aesthetic principles of design, prepare students to create apparel lines. A senior ~~as a~~ capstone to design and product development studies. Two 3-hour studios a week and assigned work. ~~(Spring only)~~
Prereq: *FCS 119, FCS 323, FCS 324, or Permission*

Short Course Title: Apparel Product Line Developmt

FCS J445/J545 Issues in Work and Family Life (3 cr)
Study of theories, trends, policies, and issues related to work and family; examination of assessment instruments; development of proposals. Additional projects/assignments required for graduate credit. (Spring only)
Prereq: *FCS 105 and FCS 346; and Family and Consumer Sciences major~~, or Permission~~*

FCS J462/J562 Eating Disorders (2 cr)
Examination of anorexia nervosa, bulimia nervosa, compulsive eating, obesity, and weight preoccupation; discussion of cultural and nutritional factors, family issues, and psychological consequences, as well as preventative and therapeutic interventions. Additional projects/assignments required for graduate credit.
Prereq: Family and Consumer Sciences major or Permission

FCS 486 Nutrition in the Life Cycle (3 cr)
Maternal nutrition and fetal development; lactation; nutritional needs and dietary patterns from conception to end of life. (Fall only)
Prereq: *FCS 205; and Food and Nutrition major; or Permission*

3. Change the curricular requirements of **Clothing, Textiles and Design** (B.S.F.C.S.) [**Effective**: Summer 2013]

This major considers clothing, textiles and design as basic human needs, consumer products, historical and cultural artifacts, and communication tools. Career emphasis areas include apparel product development, creative and technical design of apparel, retail buying and selling, and international marketing.

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 ~~from Concept to Consumer~~ (3 cr)
FCS 123	Textiles (3 cr)
~~FCS 205~~	~~Concepts in Human Nutrition or~~
~~FCS 462~~	~~Eating Disorders (2-3 cr)~~
FCS 224	Apparel Construction and Assembly Processes (3 cr)~~Apparel Design I (3 cr)~~
FCS 323	Apparel Product Development (3 cr)~~Evaluation of Apparel and Textiles (3 cr)~~
FCS 324	Patternmaking (3 cr)~~Apparel Design II (3 cr)~~
FCS 329	History of Western Dress (3 cr)
FCS 419	Dress and Culture (3 cr)
FCS 424	Apparel Product Line Development: Senior Capstone (3 cr)~~Aesthetics for the Apparel Professional (3 cr)~~
FCS 448	Consumer Economic Issues (3 cr)
Psyc 101	Intro to Psychology **or**
Soc 101	Intro to Sociology (3 cr)

One of the following (3-4 cr):

Econ 201	Principles of Economics (3 cr)
Econ 202	Principles of Economics (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. Change the curricular requirements of **Food and Nutrition** (B.S.F.C.S.) [**Effective**: Summer 2013]

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.

Acct 201	Introduction to Financial Accounting **or**
Acct 202	Introduction to Managerial Accounting (3 cr)
Biol 120	Human Anatomy (4 cr)
Biol 121	Human Physiology (4 cr)
Chem 101	Intro to Chemistry I **or**
Chem 111	Principles of Chemistry I (4 cr)
Chem 275	Carbon Compounds (3 cr)
FCS 105	Individual and Family Development (3 cr)
FCS 170	Introductory Foods (3 cr)
FCS 175	Introductory Foods Laboratory (1 cr)
FCS 205	Concepts in Human Nutrition (3 cr)
FCS 270	Intermediate Foods (3 cr)
FCS 301	Professional Skills in Dietetics I (1 cr)
FCS 302	Professional Skills in Dietetics II (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	Quantity Food Production Lab (2 cr)
FCS 387	Food Systems Management (3 cr)
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, MMBB 155	Introductory Biology of Bacteria and Viruses and Lab (4 cr)
MMBB 300	Survey of Biochemistry (3 cr)
Psyc 101	Introduction to Psychology (3 cr)
Soc 101	Introduction to Sociology (3 cr)
Stat 251	Statistical Methods (3 cr)

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

This option prepares students for careers with government agencies, commodity groups, health and fitness agencies and businesses, and some components of the food industry. In addition, the course work would provide excellent background for those wishing to pursue advanced degrees in medicine or nutrition.

Biol 120	Human Anatomy (4 cr)
Biol 121	Human Physiology (4 cr)
Chem 101	Introduction to Chemistry I **or**
Chem 111	Principles of Chemistry I (4 cr)
Chem 275	Carbon Compounds (3 cr)
FCS 105	Individual and Family Development (3 cr)
FCS 170	Introductory Foods (3 cr)
FCS 205	Concepts in Human Nutrition (3 cr)
FCS 270	Intermediate Foods (3 cr)
FCS 305	Nutrition Related to Fitness and Sport (2 cr)
FCS 361	Advanced Nutrition (3 cr)
FCS 462	Eating Disorders (2 cr)
FCS 486	Nutrition in the Life Cycle (3 cr)
Math 143	Pre-calculus Algebra and Analytic Geometry (3 cr)
MMBB 154, MMBB 155	Introductory Biology of Bacteria and Viruses and Lab (4 cr)
MMBB 300	Survey of Biochemistry (3 cr)
Stat 251	Statistical Methods (3 cr)

FCS electives (12 cr)

Courses to total ~~128~~ 120 credits for this degree

4. Change the curricular requirements of **Child, Family, and Consumer Studies** (B.S.F.C.S.) [**Effective**: Summer 2013]

The minimum credits required for graduation are 132, 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	Contexts of Education (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	Practicum (9 cr)
H&S 288	First Aid: Emergency Response (2 cr)
Core Mathematics (3 cr)	
~~Computer applications elective (3 cr)~~	
Courses to total 132 credits for this degree	

5. Change the curricular requirements of **Early Childhood Development and Education** (B.S.Erly.Chldhd.Dev.Ed.) [**Effective**: Summer 2013]

Coursework will prepare students to be recommended for Idaho Early Childhood Education/Early Childhood Special Education (ECE/ECSE) Blended Teacher Certification. Students will be certified to teach children birth through grade three.

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

Comm 101	Fundamentals of Public Speaking (2 cr)
EDCI 302	Teaching Culturally Diverse Learners (4 cr)
EDCI 401	Internship Seminar (1 cr)
EDCI 320	Teaching Reading and Literacy (3 cr)
EDCI 321	Literature for Children (3 cr)
EDCI 322	Teaching Writing/Language Arts (3 cr)
EDCI 325	Elementary Art Education (3 cr)
EDCI 327	Elementary Mathematics Education (3 cr)
EDCI 328	Elementary Social Studies Education (3 cr)
EDCI 329	Elementary Science Education (3 cr)
~~EDCI 404~~	~~Special Topics - Technology Tools for Teaching and Learning (2 cr)~~
EDCI 408	Integrated Methods Practicum I (1 cr)
EDCI 409	Integrated Methods Practicum II (1 cr)
EDCI 410	Technology, Teaching and Learning (2 cr)
EDCI 483	Elementary Internship I (7 cr)
EDSP 300	Educating for Exceptionalities (2 cr)
EDSP 325	Classroom Applications of Learning Theories (2 cr)
EDSP 350	Language, Communication Development, and Disorders (3 cr)
EDSP 484	Special Education Internship II (7 cr)
FCS 205	Concepts in Human Nutrition (3 cr)
FCS 210	Intro to Early Childhood Educ (2 cr)
FCS 234	Infancy and Early Childhood Dev (3 cr)
FCS 235	Principles & Methods of Child Observation (3 cr)
FCS 333	Developmental Curriculum for Young Children (4 cr)
FCS 340	Parent-Child Relationships in Family & Community (3 cr)
FCS 435	Feeding Young Children in Group Settings (1 cr)
FCS 436	Theories of Child & Family Development (3 cr)
FCS 480	Assessment: Early Childhood/SPED (3 cr)
FCS 481	Early Childhood SPED Curriculum (3 cr)
FCS 490	Infant & Toddler SPED Internship (1-7 cr)
FCS 497	Practicum: Preschool (8 cr)
Math 301	Early Childhood Mathematics (4 cr)
PEP 350	Elementary Health & Physical Education (3 cr)
Core Humanities elective (3 cr)	

Core Mathematics Course (3 cr)
~~US History course (Hist) or US Government course (PolS) (3 cr)~~
English Literature Elective (3 cr)
~~Humanities elective (3 cr)~~
Natural Science electives (8 cr)
Social Science electives (9 cr)
US History course (Hist) or US Government course (PolS) (3 cr)
Courses to total ~~128~~ 139 credits for this degree

Food Science

1. Drop the following courses [**Effective**: Summer 2013]

FS 230 Food Chemical Safety (3 cr)
Examines the sources of chemical and microbiological risk which foods may pose and helps students discover how scientific principles have been used to ensure the safety of our food supply through testing and processing. (Fall, Alt/yrs)

Recommended Substitution: None.

FS 240 Introduction to Food Processing (3 cr)
Training in food processing and unit operations at the introductory level. After completing this course, the students will be able to recognize and identify basic food science concepts and terminology used by professionals in the nutrition, foods, foodservice and food science fields; understand the multiple technologies used in the preservation of food; understand the concepts related to unit operations; and understand basic processing flow for various commodities such as milk, meat, fats and oils, and cereal grains. (Spring, Alt/yrs)

Recommended Substitution: None.

FS J407/J507 Evaluation of Dairy Products II (1 cr)
Identifying defects in dairy products and intense training for Collegiate Dairy Products Evaluation Competition. Credit not granted for both FS 407 and FS 507. (Fall only)
Prereq: *FS 406 or FS 506*

Recommended Substitution: None.

FS J441/J541 Scanning Electron Microscopy (3 cr)
Theory and principles of scanning electron microscopy as investigative tool; includes operation and maintenance of electron microscope, specimen preparation, and photographic darkroom procedure. Students registering for FS 541 are required to complete an additional research paper.

Recommended Substitution: None.

FS 482 Food Process Engineering I (3 cr)
Design of food processing systems; design and simulation of sterilization and pasteurization processes in foods

Recommended Substitution: None.

FS 506 Evaluation of Dairy Products I (1 cr)
See FS J406/J506.

FS 527 Transmission Electron Microscopy (3 cr)
Discussion and application of basic skills required in use of transmission electron microscope, including simple specimen preparation techniques and photographic darkroom skills.

Recommended Substitution: None.

FS 540 Biological Electron Microscopy (4 cr)
Application of biological specimen preparation techniques in EM, including ultramicrotomy and use of specific stains.

Recommended Substitution: None.

FS 590 Food Science Research Seminar (1 cr, max arr)
Current topics and research in food science and related areas.
Prereq: *Permission*

Recommended Substitution: None.

2. Add the following courses [**Effective**: Summer 2013]

FS 201 Science on Your Plate (3 cr)

Applications of science, scientific literacy, and critical thinking as related to the development and manufacture of modern food products and their use in modern civilizations. This is a cooperative course available to WSU degree-seeking students.
***Prereq** or **Coreq**: One science or physical science course*

FS 302 Food Processing Lab (1 cr)
Application of specialized techniques, concepts and practices of food processing. Field Trip required. This is a cooperative course available to WSU degree-seeking students.
***Prereq**: FS 110 or FS 220; and Math 160 or Math 170; and Stat 251*

3. Change the following courses [**Effective**: Summer 2013]

FS 113 Introduction of Vines and Wines (3 cr)
The importance of viticulture (grape growing) including world wine regions and enology (winemaking). This is a cooperative course available to WSU degree-seeking students.

Short Course Title: Intro to Vines & Wines

FS 303 Food Processing (3 cr)
Specialized techniques, concepts and practices of food processing. ~~Field trip reqd. Two 1-hr lectures and one 3-hr lab a week. Recommended preparation: MMBB 250, Chem 275 and Chem 276.~~ This is a cooperative course available to WSU degree-seeking students.
***Prereq**: FS 110 and FS 220; Math 160 or Math 170; and Stat 251*
***Coreq**: FS 302*

FS 403 (s) ~~Internship~~ Workshop (cr arr)
Workshops focusing on Food Science. This is a cooperative course available to WSU degree-seeking students.

Editor's Note: The course has always been Workshop in the Banner Database System, but was mislabeled as Internship in the Catalog.

FS 404 (s) Special Topics (cr arr)
Special topics related to Food Science. This is a cooperative course available to WSU degree-seeking students.

FS ~~J~~406~~/J506~~ Evaluation of Dairy Products I (1 cr)
Identifying defects in dairy products and relating these defects to their probable cause; remedies. ~~Credit not granted for both FS 406 and FS 506. FS 406~~ This is a cooperative course available to WSU degree-seeking students. ~~(Spring only)~~

Short Course Title: Eval of Dairy Prod I

FS 418 Oral Seminar in Food Science (1 cr)
Development of skills and communication tools and techniques for oral presentations of current food science research. This is a cooperative course available to WSU degree-seeking students.
***Prereq**: FS 110 or FS 220; and junior standing; and major in Food Science*

FS J422/J522 Sensory Evaluation of Food and Wine (3 cr)
Theory, principles and application of sensory evaluation techniques to evaluate appearance, aroma, flavor and texture of foods and wine. Additional projects/assignments required for graduate credit. This is a cooperative course available to WSU degree-seeking students.
***Prereq:** FS ~~220~~110 or FS 113; and~~,~~ Stat 251~~ or Permission~~*

Short Course Title: Sens Eval of Food & Wine

FS 423 Sensory Evaluation of Food and Wine Laboratory (1 cr)
This course will provide a practical application of FS 422, including the theory, principles and applications of sensory evaluation techniques for the evaluation of appearance, aroma, flavor and texture of foods and wine. Recommended for ages 21 or older. This is a cooperative course available to WSU degree-seeking students.
***Coreq**: FS 422*

Short Course Title: Sensory of Food & Wine Lab

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. This is a cooperative course available to WSU degree-seeking students.
***Prereq:** FS ~~303~~302, FS 303, and Phys 111*

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. This is a cooperative course available 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. Recommended Preparation: FS 413, FS 432, and FS 460. Additional projects/assignments required for graduate credit. This is a cooperative course available to WSU degree-seeking students.
Prereq: *FS 302 and FS 303~~, FS 416 or Permission~~*

FS 489 Food Product Development (3 cr)
Course serves as a capstone experience for food science seniors, and will require the application of food chemistry, food processing/engineering, and microbiology course knowledge in formulating a new food product. This is a cooperative course available to WSU degree-seeking students.
Prereq: *FS 302, FS 303, FS 416, and FS 460; and senior standing~~, or Permission~~*

FS 503 (s) Workshop (cr arr)
Workshops focusing on Food Science. This is a cooperative course available to WSU degree-seeking students.

FS 504 (s) Special Topics (cr arr)
Topics in Food Science. This is a cooperative course available to WSU degree-seeking students.

FS 517 Scientific Writing ~~Seminar~~ (2 cr, max 4)
Planning, writing, reporting, reviewing and evaluating current food-related research. This is a cooperative course available to WSU degree-seeking students.

FS 518 ~~Graduate~~ Oral Seminar (1 cr)
Development of skills and communication tools and techniques for oral presentations of current food science research. Additional projects/assignments required for graduate credit. This is a cooperative course available to WSU degree-seeking students.

FS 583 Advances in Cereal Science and Technology (2 cr)
Chemistry and functionality of cereal grains as related to their processing and product quality. This is a cooperative course available to WSU degree-seeking students.
~~***Prereq:*** *3 credits Food Chemistry, Biochem or Organic Chem.*~~

Short Course Title: Adv in Cereal Sci & Tech

FS 588 Food Science Teaching Practicum (1-3 cr)
Supervised teaching in a university setting. This is a cooperative course available to WSU degree-seeking students.
Prereq: *Admission to graduate program and Permission*

Short Course Title: Food Sci Tch Pract

4. Change the following course [**Effective**: Spring 2013]

FS 462 Food Analysis (~~4~~ 3 cr)
Introductory food analysis; methods common to many food commodities. Recommended Preparation: FS 460 and FS 461This is a cooperative course available to WSU degree-seeking students.
Prereq: *~~Chem 275, Chem 276, and MMBB 250~~FS 302 and FS 303; and Chem 275/Chem 276 or Chem 277/Chem 278; and Senior Standing*

5. Change the curricular requirements of **Food Science** (B.S.F.S.) [**Effective**: Summer 2013]

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

~~ASM 240~~	~~Computer Applications in Biological Systems (3 cr)~~
Chem 111	Principles of Chemistry I (4 cr)
Chem 112	Principles of Chemistry II (5 cr)
Comm 101	Fundamentals of Public Speaking (2 cr)
Engl 317	Technical Writing (3 cr)
FCS 205	Concepts in Human Nutrition (3 cr)
FS 110	Introduction to Food Science (3 cr)
FS 154 or MMBB 154	Introductory Microbiology **or**
Biol 115	Cells and the Evolution of Life (3-4 cr)
FS 220	Food Safety and Quality (3 cr)
FS 302, FS 303	Food Processing and Lab(~~3~~ 4 cr)
FS 416, FS 417	Food Microbiology and Lab (5 cr)
FS 418	Oral Seminar in Food Science (1 cr)
FS 422, FS 423	Sensory Evaluation of Food and Wine and Lab (~~3~~ 4 cr)
~~FS 423~~	~~Sensory Evaluation of Food and Wine Laboratory (3 cr)~~
FS 432, FS 433	Food Engineering and Lab (~~3~~ 4 cr)

~~FS 433~~	~~Food Engineering Lab (1 cr)~~
FS 460, 461	Food Chemistry and Lab (4 cr)
FS 462	Food Analysis (~~4~~ 3 cr)
FS 470	Advanced Food Technology (3 cr)
FS 489	Food Product Development (3 cr)
~~MMBB 154~~	~~Introductory Microbiology (3 cr)~~
MMBB 250, MMBB 255	General Microbiology and Lab (5 cr)
Phys 111	General Physics I (3 cr)
Stat 251	Statistical Methods (3 cr)
Math 160	Survey of Calculus **or**
Math 170	Analytical Geometry and Calculus I (4 cr)

And one of the following emphasis areas:

A. Processing Emphasis

Chem 275	Carbon Compounds (3 cr)
Chem 276	Carbon Compounds Lab (1 cr)
MMBB 300	Survey of Biochemistry (3 cr)

Select 12 credits from the following:

~~AVS 463~~	~~Growth and Lactation (3 cr)~~
~~FS 230~~	~~Food Chemical Safety (3 cr)~~
FS 304	Cereal Products (2 cr)
FS 363	Animal Products for Human Consumption (4 cr)
FS 398	Internship (1-4 cr, max 4)
FS 406	Evaluation of Dairy Products I (1 cr)
FS 429	Dairy Products (3 cr)
FS 430	Dairy Products Lab (1 cr)
FS 464	Food Toxicology (3 cr)
FS 465	Wine Microbiology and Processing (3 cr)
FS 499	Directed Study (1-4 cr, max 4)

Courses to total ~~128~~ 120 credits for this degree

B. Business Emphasis

Chem 275	Carbon Compounds (3 cr)
Chem 276	Carbon Compounds Lab (1 cr)
MMBB 300	Survey of Biochemistry (3 cr)

Select 12 credits from the following:

Acct 201	Intro to Financial Accounting (3 cr)
Acct 202	Intro to Managerial Accounting (3 cr)
Bus 301	Financial Management (3 cr)
Bus 311	Introduction to Management (3 cr)
Bus 321	Marketing (3 cr)
Bus 350	Management Information Systems (3 cr)
Bus 370	Introduction to Operations Management (3 cr)
Econ 202	Principles of Economics **or**
Econ 272	Foundations of Economic Analysis (3-4 cr)
FS 398	Internship (1-4 cr, max 4)

Courses to total ~~128~~ 120 credits for this degree

C. Science Emphasis

Chem 277	Organic Chemistry I (3 cr)
Chem 278	Organic Chemistry I: Lab (1 cr)
MMBB 380	Introductory Biochemistry (4 cr)

Select 11 credits from the following:

Chem 253~~,~~ ~~Chem 254~~	Quantitative Analysis ~~and Lab~~ (~~5~~ 3 cr)
Chem 254	Quantitative Analysis: Lab (2 cr)
Chem 302~~,~~ ~~Chem 303~~	Principles of Physical Chemistry ~~& Lab~~ (~~4~~ 3 cr)
Chem 303	Principles of Physical Chemistry Lab (1 cr)
FS 398	Internship (1-4 cr, max 4)
FS 464	Food Toxicology (3 cr)
FS 465	Wine Microbiology and Processing (3 cr)
FS 466	Wine Microbiology and Processing Lab (1 cr)
FS 499	Directed Study (1-4 cr, max 4)
Gene 314	General Genetics (3 cr)
MMBB 382	Introductory Biochemistry Laboratory (2 cr)
MMBB 412	Pathogenic Microbiology (3 cr)
MMBB 425	Microbial Ecology (3 cr)
MMBB 440	Advanced Laboratory Techniques (4 cr)
MMBB 460	Microbial Physiology (3 cr)

Courses to total ~~128~~ 120 credits for this degree

D. Nutrition Emphasis

Chem 275	Carbon Compounds (3 cr)
Chem 276	Carbon Compounds Lab (1 cr)
MMBB 300	Survey of Biochemistry (3 cr)

Select 12 credits from the following:

FCS 270	Intermediate Foods (3 cr)
FCS 384	Quantity Food Production and Equipment (3 cr)
FCS 387	Food Systems Management (3 cr)
FCS 411	Global Nutrition (3 cr)
FCS 462	Eating Disorders (2 cr)
FCS 305	Nutrition Related to Fitness and Sport (2 cr)
FS 230	Food Chemical Safety (3 cr)
FS 398	Internship (1-4 cr, max 4)
FS 499	Directed Study (1-4 cr, max 4)

Courses to total ~~128~~ 120 credits for this degree

Interdisciplinary Studies

1. Add the following course [**Effective**: Spring 2013]

Intr 210 Life Skills for Student Athletes (2 cr)
This course supports the development of a well-balanced lifestyle for student-athletes, encouraging emotional well-being, leadership, personal growth and decision-making skills. Upon completion of the course the student-athlete will: 1. Understand the guidelines and resources available for academic success; 2. Take personal responsibility for actions, behaviors and pursuing goals; 3. Effectively manage your time within the constraints of a busy academic schedule; 4. Consistently demonstrate successful classroom behavior, study habits, and test taking skills; 5. Make informed and educated decisions regarding health issues; 6. Learn to prepare nutritious and inexpensive meals; 7. Appreciate the meaning of diversity and culture; 8. Understand how to manage your personal finances; 9. Choose the correct major and identify possible career choices; and 10. Demonstrate the understanding of a service learning experience.

Short Course Title: Life Skills Student Athletes

Law

1. Add the following courses [**Effective**: Summer 2013]

Law 850 Freedom of Speech and the Press (3 cr)
Exploration of the First Amendment protections for freedom of speech and press by examining First Amendment jurisprudence regarding the history, philosophy, and scope of an individual or group's right to public and private speech or other types of expressive communication.
Prereq: *Law 816 and Law 905*

Short Course Title: Freedom of Speech & the Press

Law 991 Skills Practicum (cr arr)
From time to time, specific skills courses are arranged and made available for a semester. The exact content of each skills course is announced in advance of the semester in which it is offered.

Law 992White Collar Crime (3 cr)
Federal law prohibiting financial, non-violent crime, including fraud, racketeering, and bribery. The course examines principles of statutory interpretation, grand jury investigations, parallel civil proceedings, corporate and individual responsibility, sentencing guidelines, and federal-state coordination.

Law 993 Appellate Clinic (1-3 cr, max 6)
Representation of clients in civil and criminal appeals before the Ninth Circuit Court of Appeals and Idaho appellate courts. Recommended Preparation: Law 953.
Prereq: *Law 950, Law 962, and Law 971; and permission; and qualification for limited license as legal intern in Idaho*
Coreq: *Law 958*

Law 994 Economic Development Clinic (1-3 cr, max 6)
Legal aid clinic in which legal interns assist Idaho counties, cities, tribes, and non-governmental agencies with economic development issues and legal problems. Recommended Preparation: Law 934 and Law 944.
Prereq: *Law 962; and permission; and qualification for limited license as legal intern in Idaho*

Law 995 General Practice/Domestic Violence & Sexual Assault Clinic (1-3 cr, max 6)
Representation of clients in civil proceedings involving victims of domestic, sexual assault, dating violence or stalking. Student interns also represent clients in general practice matters including misdemeanor defense, family law, consumer protection, landlord-tenant disputes, probate and civil rights. Recommended Preparation: Law 953.
Prereq: *Law 950, Law 962, and Law 971; and permission; and qualification for limited license as legal intern in Idaho*
Coreq: *Law 958*

Short Course Title: General/DVSA Clinic

Law 996 Immigration Law Clinic (1-3 cr, max 6)
Representation of immigrant clients from a variety of countries under the supervision of clinical faculty. Cases may include asylum, permanent residence, citizenship, and relief from deportation. Students may represent clients in administrative, trial, and appellate courts.
Prereq: *Law 950, Law 962, and Law 971; and permission; and qualification for limited license as legal intern in Idaho*
Coreq: *Law 958 and Law 985*

Law 997 Mediation Clinic (1-3 cr, max 6)
Legal aid clinic in which legal interns provide mediation services and hone their skills in communication, facilitation, negotiation, organization, and ethics.
Prereq: *Law 912 or Law 913; and Law 950, Law 962, and Law 971; and permission; and qualification for limited license as legal intern in Idaho*

Law 998 Tax Clinic (2-3 cr, max 6)
Representation of low-income taxpayers in disputes with the IRS at the audit, appeals, collection, and Tax Court levels. Students are exposed to the Boise tax community through frequent practitioner guest lecturers, an IRS field trip, and by attending Tax Court calendars, and they are required to complete a community outreach project. Recommended Preparation: Law 927, Law 950, and Law 958.
Prereq: *Law 930, Law 962, and Law 971; and permission; and qualification for limited license as legal intern in Idaho*

2. Change the following courses [**Effective**: Summer 2013]

Law 805 ~~Introduction to Law and Procedure~~Civil Procedure and Introduction to Law (3 cr)
Overview of U.S. legal systems, providing basics on civil litigation and legal principles. Covers litigation topics including pleadings, pretrial management, discovery, summary judgment, trial, post-trial motions, judgment, personal jurisdiction, subject matter jurisdiction and related topics with a focus on the Federal Rules of Civil Procedure.~~Introduction to the history, institutions, and philosophy of law; roles and responsibilities of lawyers; nature of legal claims, process of legal analysis and reasoning; and principles of statutory interpretation. Introduction to civil procedure in state and federal courts, including jurisdiction, trials, and the preclusive effects of judgments.~~

Short Course Title: Civil Procedure & Intro to Law

Law 806 Civil Procedure II (3 cr)
Continuation of Law 805 on the process and principles of civil litigation in the U.S.~~the study of civil procedure from Law 805, including jurisdiction, venue, pleading, joinder of claims and parties, motions, discovery, trials, judgments, and appellate procedure.~~
Prereq: *Law 805*

Law 910 Antitrust ~~and Trade Regulations~~ (3 cr)
Study of the application of the antitrust law to cooperation among competitors, agreements between suppliers and customers regarding the resale of products, exclusive dealing arrangements, monopolization, and mergers.~~Regulation of economic activity in a free enterprise system. Antitrust laws examined in detail.~~

Law 920 Securities Regulation~~s~~ (3 cr)
The law of corporate finance under the Securities Act of 1933 and the Securities Exchange Act of 1934.

Law 944 State and Local Government ~~and Land Use~~ Law (3 cr)
Review of the source, scope, and limits of local government power, with reference to Idaho and other state examples. The course will consider the relationship of local governments to the state and federal government, as well as to neighboring communities and individuals.~~Legislative, regulatory, tax, and borrowing authority of local government; contract and tort issues; special attention to land use regulation. A research paper may be required instead of an examination depending on size of class. Enrollment of second-year students may be limited by instructor. (Irregular)~~

Law 954 Trial Skills (3 cr)
Credit cannot be earned in both Law 954 and Law 958. Instruction in the skills fundamental to litigation and the techniques of persuasive witness examination and argument, combining classroom instruction and individually critiqued student exercises. Limited enrollment.
Prereq: *Law 950 and Permission*

Law 958 Trial Advocacy (2 cr)
Credit cannot be earned in both Law 954 and Law 958. An intensive seven-day course offered the week before classes regularly begin in the fall. The course follows the National Institute of Trial Advocacy Training format of faculty demonstration, discussion, student performance, and critique, culminating in a mock jury trial on the last day of the training. Limited enrollment. Graded P/F.
Prereq: *Law 950 and Permission; Limited to third-year law students unless waived by the Director of Clinical Programs*

Law 962 Professional Responsibility (2 cr)
Status and function of the legal profession, responsibility to clients, the profession, the public, and the administration of justice. The course must be taken no later than the summer following the second year of law studies.

Law 974 Legal Aid ~~Internship~~ Clinic (1-3 cr, max 6)
From time to time, specific legal aid clinics may be offered. The content of such clinics is announced in advance of the semester in which they are offered.~~In this two semester course, students represent clients in civil and criminal cases. Field trips required when appropriate for serving clients. Recommended preparation: Law 953.~~
Prereq: ~~*Qualification for limited license in Idaho, Law 950, Law 962 and Law 971, and Permission*~~ *Law 962; and permission; and qualification*

for limited license as legal intern in Idaho
~~***Coreq:*** *Law 958*~~

Law 978 Small Business Legal Clinic (1-3 cr, max 6)
Real-life experience handling transactional legal problems and assisting businesses and not-for-profits.
Prereq: ~~*Law 919, Law 962, Law 971, and Permission*~~ *Law 919 and Law 962; and Law 966, Law 967, or Law 971; and permission; and qualification for limited license as legal intern in Idaho*

3. Change the curricular requirements of **Law** (J.D.) [**Effective**: Summer 2013]

Required course work includes the College of Law requirements and the following:

Law 805	Introduction to Law and Procedure (3 cr)
Law 806	Procedure II (3 cr)
Law 807	Property (4 cr)
Law 809	Torts (4 cr)
Law 812	Criminal Law (3 cr)
Law 813	Contracts (4 cr)
Law 815	Legal Research and Writing (0 or 5 cr, max 5)
Law 816	Constitutional Law I (4 cr)
Law 905	Constitutional Law II (3 cr)
Law 962	Professional Responsibility (2 cr)

Two credits chosen from the following (2 cr):

Law 912	Civil Mediation (2 cr)
Law 913	Family Mediation (2 cr)
Law 914	Dispute Resolution (1 cr, max 4)
Law 917	Negotiation and Appropriate Dispute Resolution (3 cr)
Law 954	Trial Skills (3 cr)
Law 956	Moot Court (1-2 cr)
Law 957	Mock Trial (2 cr)
Law 958	Trial Advocacy (2 cr)
Law 966	Legal Drafting (2 cr)
Law 967	Advanced Legal Writing (2 cr)
Law 970	Advanced Legal Research (2 cr)
Law 971	Lawyering Process Seminar (2 cr)
Law 974	Legal Aid Internship (1-3 cr, max 6)
Law 975	Classroom Credit Public Service Externship (1-5 cr, max 10)
Law 976	Semester in Practice (1-12 cr, max 12)
Law 977	Clinical Lab (1 cr, max 4)
Law 978	Small Business Legal Clinic (1-3 cr, max 6)
Law 986	Judicial Clerkship Seminar (1 cr)
Law 987	Law Practice Management (1 cr)
Law 991	Skills Practicum (cr arr)
Law 993	Appellate Clinic (1-3 cr, max 6)
Law 994	Economic Development Clinic (1-3 cr, max 6)
Law 995	General Practice/Domestic Violence & Sexual Assault Clinic (1-3 cr, max 6)
Law 996	Immigration Law Clinic (1-3 cr, max 6)
Law 997	Mediation Clinic (1-3 cr, max 6)
Law 998	Tax Clinic (2-3 cr, max 6)

One Upper-Division Writing Course
40 Hours of uncompensated law related pro bono service
Courses to total 90 credits for this degree

Rationale: All the courses newly listed have been specifically designed to fulfill the College of Law's professional skills training requirement, and the College of Law faculty has voted to accept all these courses as fulfilling the requirement either in whole (for two-credit classes) or in part (for one-credit classes). Some of the courses listed are pre-existing Clinics which previously were all subsumed under Law 974.

4. Change the curricular requirements of **Law - Native American Law Emphasis** (J.D.) [**Effective**: Summer 2013]

A. Native American Law Emphasis

Law 949	Native American Law (3 cr)
Law 928	Tribal Nation Economics and Law **or**
Law 979	Native American Natural Resource Law (3 cr)

Students must complete one of the following tracks. Substitution from UI and WSU graduate courses allowed for one course in each track with pre-approval of Native American Law Emphasis Advisor:

Economic Development Track

~~Two classes~~Six credits chosen from the following:

Law 903	Introduction to Intellectual Property (3 cr)
Law 907	Administrative Law (3 cr)

Law 908	Workplace Law (4 cr)
Law 910	Antitrust and Trade Regulations (3 cr)
Law 919	Business Associations (4 cr)
Law 921	Accounting for Law Students (2 cr)
Law 923	Negotiable Instruments, Bank Collections and Deposits, and Other Payment Systems (3 cr)
Law 925	Property Security (3 cr)
Law 926	Bankruptcy (3 cr)
Law 927	Business Entities Taxation (4 cr)
Law 930	Taxation (3-4 cr)
Law 931	Patents (2 cr)
Law 932	Estate Planning (3 cr)
Law 933	State Debtor-Creditor Law (2 cr)
Law 945	Community Property (2 cr)
Law 984	Real Estate Transactions (2 cr)

Family Law Track

~~Two classes~~Six credits chosen from the following:

Law 913	Family Mediation (2 cr)
Law 940	International Human Rights (3 cr)
Law 941	Wills, Estates, and Trusts (3 cr)
Law 963	Family Law (3 cr)
Law 964	Children and the Law (3 cr)
Law 965	Elder Law (2 cr)
Law 968	Domestic Violence and the Law (2-3 cr)
Law 985	Immigration Law and Policy (3 cr)

Governance Track

~~Two classes~~Six credits chosen from the following:

Law 904	Federal Courts (3 cr)
Law 907	Administrative Law (3 cr)
Law 908	Workplace Law (4 cr)
Law 912	Civil Mediation (2 cr)
Law 916	Public International Law (3 cr)
Law 917	Negotiation and Appropriate Dispute Resolution (3 cr)
Law 934	Land-Use Law and Planning (3 cr)
Law 944	Local Government and Land Use Law (3 cr)
Law 959	Critical Legal Studies (2-3 cr, max 3)
Law 960	Conflict of Laws (2 cr)
Law 961	Jurisprudence (2 cr)

Natural Resources Management Track

~~Two classes~~Six credits chosen from the following:

Law 906	Natural Resources Law Seminar (3 cr)
~~Law 922~~	~~Trademarks and Trade Dress (2 cr)~~
~~Law 931~~	~~Patents (2 cr)~~
Law 934	Land-Use Law and Planning (3 cr)
Law 937	Wildlife Law and Policy (3 cr)
Law 938	International Environmental and Water Law (3 cr)
Law 939	Law, Science, and the Environment (2 cr)
Law 942	Water Law I (1 cr)
Law 946	Water and Energy Policy Seminar (2 cr)
Law 947	Environmental Law (3 cr)
Law 948	Natural Resource Law and Policy (3 cr)
Law 951	Environmental Policy (3 cr)
Law 969	Water Law II (2 cr)

Self Directed Track

Six credits in courses pre-approved by the Native American Law Advisor emphasis advisor

Courses to total 90 credits for this degree

Mechanical Engineering

1. Add the following course [**Effective**: Summer 2013]

ME 571 Building Performance Simulation for Integrated Design (3 cr)
See Arch 574.

2. Change the curricular requirements of **Mechanical Engineering** (B.S.M.E.) [**Effective**: Summer 2013]

This program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012—telephone: (410) 347-7700.

Note: Pre-advising is required to register in any ME course.

To advance to upper-division courses, a student majoring in mechanical engineering must earn certification: the student may accumulate no more than three grades of D or F in the ~~lower-division~~ mathematics, science or engineering courses used to satisfy certification requirements. Included in this number are multiple repeats of a single course or single repeats in multiple courses and courses transferred from other institutions.

In addition, students must also earn at least five grades of B or better ~~than a C~~ in these ~~lower-division~~ mathematics, science or engineering courses: Chem 111~~;~~, Engr 210, Engr 220, ~~and~~ Engr 240~~;~~, Math 170, Math 175, Math 275; Math 310, Math 330, ME 123, ME 223, ME 301, MSE 201; and Phys 211, and Phys 212. A grade of P (pass) in any of these courses is considered as a C grade in satisfying this certification requirement.

To graduate in this program, a student ~~may~~ cannot accumulate ~~no~~ more than five grades of D or F in the mathematics, science, or engineering courses used to satisfy graduation requirements. Included in this number are multiple repeats of a single course or single repeats in multiple courses and courses transferred from other institutions.

Required course work includes the university requirements (see regulation J-3), completion of the Fundamentals of Engineering (FE) examination and:

CE 411	Engineering Fundamentals (1 cr)
Chem 111	Principles of Chemistry I (4 cr)
Comm 101	Fundamentals of Public Speaking (2 cr)
Engl 317	Technical Writing (3 cr)
Engr 210	Engineering Statics (3 cr)
Engr 220	Engineering Dynamics (3 cr)
Engr 240	Introduction to Electrical Circuits (3 cr)
Engr 335	Engineering Fluid Mechanics (3 cr)
Engr 350	Engineering Mechanics of Materials (3 cr)
MSE 201	Elements of Materials Science (3 cr)
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)
Math 310	Ordinary Differential Equations (3 cr)
Math 330	Linear Algebra (3 cr)
ME 123	Introduction to Mechanical Design (3 cr)
ME 223	Mechanical Design Analysis (3 cr)
ME 301	Computer Aided Design Methods (3 cr)
ME 313	Dynamic Modeling of Engineering Systems (3 cr)
ME 322	Mechanical Engineering Thermodynamics (3 cr)
ME 325	Machine Component Design I (3 cr)
ME 330	Experimental Methods for Engineers (3 cr)
ME 341	Intermediate Mechanics of Materials (3 cr)
ME 345	Heat Transfer (3 cr)
ME 424	Mechanical Systems Design I (3 cr)
ME 426	Mechanical Systems Design II (3 cr)
ME 430	Senior Laboratory (3 cr)
ME 435	Thermal Energy Systems Design (3 cr)
Phil 103	Ethics (3 cr)
Phys 211, 211L	Engineering Physics I and Lab (4 cr)
Phys 212, 212L	Engineering Physics II and Lab (4 cr)

One from the following (3-4 cr):

Econ 201	Principles of Economics (3 cr)
Econ 202	Principles of Economics (3 cr)
Econ 272	Foundations of Economics (4 cr)

Technical Elective requirements for Mechanical Engineering: Fifteen credits of technical electives are required from the list below. The breakdown of credits will be as follows: nine credits must be an ME upper division course, three credits must be an upper division Math, Statistics or Physics course, the remaining three credits may be any course listed in below~~Nine credits of the following Mechanical Engineering Technical Electives (9 cr)~~:

ME 404	Special Topics (cr arr)
ME 410	Principles of Lean Manufacturing (3 cr)
ME 412	Gas Dynamics (3 cr)
ME 413 or ME 513	Engineering Acoustics (3 cr)
ME 414 or ME 514	HVAC Systems (3 cr)
ME 415	Materials Selection and Design (3 cr)
ME 417 or ME 517	Turbomachinery (3 cr)
ME 418 or ME 518	Discrete System Simulation and Animation (3 cr)

ME 420 or ME 520	Fluid Dynamics (3 cr)
ME 421 or ME 521	Advanced Computer Aided Design (3 cr)
ME 422	Applied Thermodynamics (3 cr)
ME 425	Machine Component Design II (3 cr)
ME 433	Combustion Engine Systems (3 cr)
ME 443 or ME 543	Analysis of Thermal Energy Systems (3 cr)
ME 444	Air Conditioning Engineering (3 cr)
ME 451 or ME 551	Experimental Methods in Fluid Dynamics and Heat Transfer (3 cr)
ME 452 or ME 552	TechVentures: High Technology Entrepreneurship (3 cr)
ME 461	Fatigue and Fracture Mechanics (3 cr)
ME 464 or ME 564	Robotics: Kinematics, Dynamics, and Control (3 cr)
ME 472	Mechanical Vibrations (3 cr)
ME 481	Control Systems (3 cr)
ME 526	Statistical Thermodynamics (3 cr)
ME 527	Thermodynamics (3 cr)
ME 529	Combustion and Air Pollution (3 cr)
ME 539	Advanced Mechanics of Materials (3 cr)
ME 540	Continuum Mechanics (3 cr)
ME 541	Mechanical Engineering Analysis (3 cr)
ME 542	Optimal Control of Dynamic Systems (3 cr)
ME 544	Conduction Heat Transfer (3 cr)
ME 546	Convective Heat Transfer (3 cr)
ME 547	Thermal Radiation Processes (3 cr)
ME 548	Elasticity (3 cr)
ME 549	Finite Element Analysis (3 cr)
ME 578	Neural Network Design (3 cr)
ME 580	Linear System Theory (3 cr)
ME 583	Reliability of Engineering Systems (3 cr)

~~Three credits of the following Business, Mathematics, and Engineering Technical Electives (3 cr):~~

Bus 414	Entrepreneurship (3 cr)
Bus 456	Quality Management (3 cr)
Bus 531	Managing the Design Process (3 cr)
Engr 360	Engineering Economy (2 cr)
Engr 573	Fuzzy Logic Control Systems (3 cr)
Math 371 or Phys 371	Mathematical Physics (3 cr)
Math 420	Complex Variables (3 cr)
Math 428	Numerical Analysis (3 cr)
Math 432	Numerical Linear Algebra (3 cr)
Math 437	Mathematical Biology (3 cr)

Math 451	Probability Theory (3 cr)
Math 452	Mathematical Statistics (3 cr)
Math 453	Stochastic Models (3 cr)
Math 471	Introduction to Analysis 1 (3 cr)
Math 472	Introduction to Analysis 2 (3 cr)
Math 480	Partial Differential Equations (3 cr)
ME 401	Engineering Team Projects (2-3 cr)
~~ME 410~~	~~Principles of Lean Manufacturing (3 cr)~~
~~ME 412~~	~~Gas Dynamics (3 cr)~~
~~ME 413 or ME 513~~	~~Engineering Acoustics (3 cr)~~
~~ME 414 or ME 514~~	~~HVAC Systems (3 cr)~~
~~ME 415~~	~~Materials Selection and Design (3 cr)~~
~~ME 417 or ME 517~~	~~Turbomachinery (3 cr)~~
~~ME 418 or ME 518~~	~~Discrete System Simulation and Animation (3 cr)~~
~~ME 420 or ME 520~~	~~Fluid Dynamics (3 cr)~~
~~ME 421 or ME 521~~	~~Advanced Computer Aided Design (3 cr)~~
~~ME 422~~	~~Applied Thermodynamics (3 cr)~~
~~ME 433~~	~~Combustion Engine Systems (3 cr)~~
~~ME 443 or ME 543~~	~~Analysis of Thermal Energy Systems (3 cr)~~
~~ME 444~~	~~Air Conditioning Engineering (3 cr)~~
~~ME 451 or ME 551~~	~~Experimental Methods in Fluid Dynamics and Heat Transfer (3 cr)~~
~~ME 452 or ME 552~~	~~TechVentures: High Technology Entrepreneurship (3 cr)~~
~~ME 461~~	~~Fatigue and Fracture Mechanics (3 cr)~~
~~ME 464 or ME 564~~	~~Robotics: Kinematics, Dynamics, and Control (3 cr)~~
~~ME 472~~	~~Mechanical Vibrations (3 cr)~~
~~ME 481~~	~~Control Systems (3 cr)~~
~~ME 499~~	~~Directed Study (cr arr)~~
~~ME 526~~	~~Statistical Thermodynamics (3 cr)~~
~~ME 527~~	~~Thermodynamics (3 cr)~~
~~ME 529~~	~~Combustion and Air Pollution (3 cr)~~
~~ME 539~~	~~Advanced Mechanics of Materials (3 cr)~~
~~ME 540~~	~~Continuum Mechanics (3 cr)~~
~~ME 541~~	~~Mechanical Engineering Analysis (3 cr)~~
~~ME 544~~	~~Conduction Heat Transfer (3 cr)~~
~~ME 546~~	~~Convective Heat Transfer (3 cr)~~
~~ME 547~~	~~Thermal Radiation Processes (3 cr)~~
~~ME 548~~	~~Elasticity (3 cr)~~
~~ME 549~~	~~Finite Element Analysis (3 cr)~~
~~ME 578~~	~~Neural Network Design (3 cr)~~
~~ME 580~~	~~Linear System Theory (3 cr)~~
~~ME 583~~	~~Reliability of Engineering Systems (3 cr)~~
Phys 351	Introductory Quantum Mechanics I (3 cr)
Phys 305	Modern Physics (3 cr)
Phys 411	Physical Instrumentation I (3 cr)
Phys 425 or Phys 525	Relativity (3 cr)
Phys 428 or Phys 528	Numerical Methods (3 cr)
Phys 443 or Phys	Optics (3 cr)

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Phys 444 or Phys 544 Quantum Optics (3 cr)
Phys 464 Materials Physics and Engineering (3 cr)
Phys 465 or Phys 565 Particle and Nuclear Physics (3 cr)
Phys 484 or Phys 584 Astrophysics (3 cr)
Stat 301 Probability and Statistics (3 cr)
Stat 431 Statistical Analysis (3 cr)
Stat 446 Six Sigma Innovation (3 cr)
Any approved 400/500 level course in another engineering discipline

~~Three credits of the following Mathematics, Physics, and Statistics Technical Electives (3 cr):~~
~~Math 371 or Phys 371 Mathematical Physics (3 cr)~~
~~Math 420 Complex Variables (3 cr)~~
~~Math 428 Numerical Methods (3 cr)~~
~~Math 432 Numerical Linear Algebra (3 cr)~~
~~Math 437 Mathematical Biology (3 cr)~~
~~Math 451 Probability Theory (3 cr)~~
~~Math 452 Mathematical Statistics (3 cr)~~
~~Math 453 Stochastic Models (3 cr)~~
~~Math 471 Introduction to Analysis 1 (3 cr)~~
~~Math 472 Introduction to Analysis 2 (3 cr)~~
~~Math 480 Partial Differential Equations (3 cr)~~
~~Phys 411 Physical Instrumentation (3 cr)~~
~~Phys 425 or Phys 525 Relativity (3 cr)~~
~~Phys 428 or Phys 528 Numerical Methods (3 cr)~~
~~Phys 443 or Phys 543 Thermal and Statistical Physics I (3 cr)~~
~~Phys 444 or Phys 544 Quantum Optics (3 cr)~~
~~Phys 464 Materials Physics and Engineering (3 cr)~~
~~Phys 465 or Phys 565 Particle and Nuclear Physics (3 cr)~~
~~Phys 484 or Phys 584 Astrophysics (3 cr)~~
~~Stat 301 Probability and Statistics (3 cr)~~
~~Stat 431 Statistical Analysis (3 cr)~~
~~Stat 446 Six Sigma Innovation (3 cr)~~

A maximum of 3 credits of the following may be used:
ME 307 Group Mentoring I (1 cr)
ME 308 Group Mentoring II (1 cr)
ME 401 Engineering Team Projects (2-3 cr)
ME 407 Group Mentoring III (1 cr)
Courses to total 128 credits for this degree, not counting Engl 101, Math 143, and other courses that might be required to remove deficiencies.

Medical Science

1. Change the following course [**Effective**: Summer 2013]

MedS 505 Preceptorship (1 cr, max 2)
First-year medical students gain experience and insight into medical practice situations; students are stationed in physician offices at WWAMI sites.

Modern Languages and Cultures

1. Change the following courses [**Effective**: Summer 2013]

Fren 304 Connecting French Language and Culture (4 cr)
May be used as core credit in J-3-d. Practice of linguistic proficiencies within simulated cultural frames. Recommended Preparation: Fren ~~301~~ 202~~or Fren 302~~. (Spring, alt/yrs.)

Short Course Title: Connect French Land & Culture

Fren 305 Reading French Texts (3 cr)
May be used as core credit in J-3-d. Development and practice of reading skills and strategies. Recommended Preparation: Fren ~~301~~ 202~~or Fren 302~~.

Fren 307 French Phonetics (4 cr)
May be used as core credit in J-3-d. Contrastive analysis; acquisition and corrective practice of sounds and intonation patterns; phonetic description and transcription. Recommended Preparation: Fren ~~301~~ 202~~or Fren 302~~. (Spring, alt/yrs)

Fren 308 Advanced French Conversation (3 cr)
May be used as core credit in J-3-d. Further development of speaking skills; discussion on topics of cultural interest and current events. Recommended Preparation: Fren ~~301~~ 202~~or Fren 302~~. (Fall, alt/yrs.)

Fren 407 ~~(s) Topics in French Literature~~French & Francophone Literatures (3 cr, max 9)
May be used as core credit in J-3-d. For advanced students; representative works from various genres of French and Francophone literature. Recommended Preparation: Two 300-level French courses. This is a cooperative course available to WSU degree-seeking students. (Spring, Alt/yrs)

Short Course Title: French/Francophone Literatures

Fren 410 ~~The Arts in France and the~~French and Francophone Arts~~World~~ (3 cr)
For advanced students; representative works, styles, and movements in visual arts, architecture, and music of France and the Francophone world. Recommended Preparation: Two 300-level French courses. This is a cooperative course available to WSU degree-seeking students. (Spring, Alt/yrs)

Plant, Soil, and Entomological Sciences

1. Drop the following course [**Effective**: Summer 2013]

Soil 528 Advanced Chemistry of Soil Environment (3 cr)
Practical treatment of physical and chemical processes affecting ion retention and bioavailability in soils and sediments including speciation, adsorption, precipitation, dissolution and redox reactions. (Alt/yrs)
Prereq: *Soil 422 or Permission*

Recommended Substitution: None

2. Add the following courses [**Effective**: Summer 2013]

PlSc 402 Undergraduate Research in Plant Science ~~(cr arr)~~(1-6 cr, max 6)
This course offers credits to students interested in gaining first-hand experience in today's plant research. Each student will acquire research skills by conducting ~~individualized~~ laboratory or field research on a well-defined topic agreed to by the student and by a faculty supervisor. Students must receive permission from that supervisor prior to enrolling. This course is open to all undergraduates, and may be taken multiple times.
Prereq: *PlSc 205*

Short Course Title: UG Research in Plant Sci

Soil J427/J527 Systems Based Approaches to Ecological Resilience (3 cr)
The purpose of the course is to help students apply systems thinking and systems-methodological problem-solving skills to identify and describe current and future problems facing ecological systems, including problems caused by climate change. Students will gain a better understanding of the complex, cross-disciplinary, multi-scalar and systemic (emergent) nature of problems related to sustainability. Team-based problem solving and trans-disciplinary communication will be stressed. Additional projects/assignments required for graduate credit.
Prereq: *EnvS 101, For 221, Geog 202, REM 221, or Soil 205; or Instructor Permission*

Short Course Title: Systems Based Approaches

Soil 514 Environmental Geophysics (3 cr)
This course will provide an introduction to near-surface geophysical techniques. The aim is to provide a solid foundation on physical principles used to non-invasively study characteristics and properties of the earth in general, and the shallow subsurface in particular. We will discuss applications ranging from eco-hydrology, precision agriculture, and civil engineering to archeology. The course consists of two parts. Lectures will provide a conceptual understanding of the theory and methods, and a field-based case study will apply these concepts collecting integrated geophysical data that will be processed and interpreted to introduce students to practical procedures and challenges in environmental geophysics. This is a cooperative course available to WSU degree-seeking students.

3. Change the following courses [**Effective**: Summer 2013]

Soil 456 North Idaho Field Trip (1 cr)
Soils and land use in northern Idaho ecosystems; emphasis on soil parent materials, soil formation and morphology, and soil-plant community relationships. Graded P/F. One 3-day field trip; additional class meetings and assignments before and after field trip. This is a cooperative course available to WSU degree-seeking students.

Prereq: *Soil 205 or Permission*

1. Change the curricular requirements of **Sustainable Crop and Landscape Systems** (B.S.Ag.L.S.) [**Effective**: Summer 2013]

...
E. Plant Biotechnology

Chem 112	Principles of Chemistry II (5 cr)
~~Chem 276~~	~~Carbon Compounds Lab **or**~~
Chem 278	Organic Chemistry I: Lab (1 cr)
Gene 314	General Genetics (3 cr)
~~MMBB 154,~~	~~Introductory Microbiology and Lab (4 cr)~~
~~MMBB 155~~	
MMBB 300	Survey of Biochemistry **or**
MMBB 380	Introductory Biochemistry (3-4 cr)
MMBB 486	Plant Biochemistry (3 cr)
MMBB 488	Genetic Engineering (3 cr)
~~PlSc 201~~	~~Principles of Horticulture (3 cr)~~
~~PlSc 338~~	~~Weed Control (3 cr)~~
~~PlSc 398~~	~~Internship **or**~~
~~PlSc 499~~	~~Directed Study (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 cr):

PlSc 398	Internship (3 cr)
PlSc 402	Undergraduate Research in Plant Science (3 cr)
PlSc 499	Directed Study (3 cr)

Professional Support Electives (~~9~~ 5 cr):
Accounting
Animal and Veterinary Sciences
Agricultural Economics
Biology
Business
Business Law
Chemistry
Computer Science
Economics
Entomology
Foreign Languages (max 4 credits)
Forest Products
Forest Resources
Landscape Architecture
Microbiology, Molecular Biology and Biochemistry
Physics
Plant Science
Rangeland Ecology and Management
Soils
Courses to total 128 credits for this degree

Recommended Courses:

Biol 212	Molecular and Cellular Biology (4 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 380~~	~~Introductory Biochemistry (4 cr)~~
MMBB 409	Immunology (3 cr)
MMBB 485	Prokaryotic Molecular Biology (3 cr)
~~MMBB 486~~	~~Plant Biochemistry (3 cr)~~
MMBB 487	Eukaryotic Molecular Genetics (3 cr)
PlSc 338	Weed Control (3 cr)
PlSc 407	Field Crop Production (3 cr)
~~PlSc 408~~	~~Cereal Science (3 cr)~~
PlSc 416	Plant Pathology Laboratory (1 cr)
PlSc 451	Vegetable Crops (3 cr)
PlSc 490	Potato Science (3 cr)
Soil 446	Soil Fertility (3 cr)
~~Stat 431~~	~~Statistical Analysis (3 cr)~~

Psychology and Communication Studies

1. Change the curricular requirements of **Psychology** (B.A. or B.S.) [**Effective**: Summer 2013]

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

Biol 102, Biol 102L	Biology and Society and Lab **or**
Biol 115	Cells and the Evolution of Life (4 cr)
Psyc 101	Introduction to Psychology (3 cr)
Psyc 201	Survey of Contemporary Psychology (1 cr)
Psyc 218	Introduction to Research in the Behavioral Sciences (4 cr)
Stat 251	Statistical Methods (3 cr)

A grade of C or above in at least three courses from each of the following groups (18 cr):

Personal/Social Bases of Behavior

Psyc 305	Developmental Psychology (3 cr)
Psyc 310	Psychology of Personality (3 cr)
Psyc 311	Abnormal Psychology (3 cr)
Psyc 320	Introduction to Social Psychology (3 cr)

Biological/Experimental Bases of Behavior

Psyc 325	Cognitive Psychology (3 cr)
Psyc 372	Physiological Psychology (3 cr)
Psyc 390	Psychology of Learning (3 cr)
Psyc 430	Tests and Measurements (3 cr)
Psyc 444	Sensation and Perception (3 cr)
Psyc 456	Psychology of Emotion (3 cr)

At least 12 additional upper-division psychology credits. Up to 6 of these credits may be earned by taking Comm 347, Comm 410, Comm 432, or Comm 433. Only 3 of these credits may come from Psyc 400, Psyc 494, Psyc 497, Psyc 498, and/or Psyc 499. A grade of C or better must be earned in each course taken to complete this category.

Courses to total 120 credits for this degree

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FOR THE FACULTY'S INFORMATION

Correction to General Curriculum Report 265:

Changes to Cooperative Courses Approved Since Last General Curriculum Report:
(ID = taught only at UI; WS = taught only at WSU, LC = taught only at LCSC; ID&WS = can be taught at both UI & WSU; ID&LC = can be taught at both UI & LCSC)

Other Informational Changes:

1. Change the status of the following courses from Active to Dormant [**Effective**: Summer 2013]

Agricultural Economics and Rural Sociology
AGEC 416 Fall 2003
AGEC 417 Fall 2003

Agricultural Education and 4-H Youth Development
AGED 446 Summer 2008
AGED 546 Summer 2008

Animal and Veterinary Science
AVS 218 Fall 1996

Art and Architecture
LARC 301 Summer 2007

Biological and Agricultural Engineering
BAE 356 Fall 2003
BAE 550 Summer 2007

Bioinformatics and Computational Biology
BCB 516 Summer 2008
BCB 517 Summer 2008
BCB 518 Summer 2008

Business
BUS 425 Summer 2008
BUS 454 Summer 2008
BUS 455 Summer 2008
ECON 353 Summer 2008
ECON 415 Summer 2008

Civil Engineering
CE 484 Fall 1996
CE 529 Fall 1996

Chemical and Materials Engineering
MSE 410 Spring 2003
MSE 510 Spring 2003

Computer Science
CS 441 Summer 2005
CS 541 Summer 2005

Conservation Social Sciences
CSS 491 Summer 2005

Core Science
CORS 205 Summer 2008
CORS 213 Summer 2008
CORS 223 200720

Curriculum and Instruction
EDCI 381 Summer 2006
EDSP 580 Summer 2006

Electrical and Computer Engineering
ECE 555 Dept Request Addition

Engineering
EM 587 Summer 2006

English
ENGL 437 Spring 2003

Fish and Wildlife Sciences
WLF 546 Fall 1996

Forest, Range, and Fire Sciences
REM 102 Summer 2008
REM 527 Summer 2008

Geography
GEOG 580 Summer 2007

Geological Sciences
GEOL 414 Summer 2008
GEOL 514 Summer 2008

Journalism and Mass Media
JAMM 371 Fall 2003
JAMM 376 Fall 2003

Leadership and Counseling
EDAD 521 Summer 2006
EDAD 689 Summer 2006

Mechanical Engineering
ME 415 Spring 2004
ME 419 Summer 2008
ME 518 Summer 2005
ME 411

Modern Languages and Cultures
FLEN 481 Spring 2003
FREN 305 Spring 2003
GERM 303 Summer 2006
LATN 461 Spring 2003
SPAN 309 Spring 2003
SPAN 311 Spring 2003

Movement Sciences
H&S 316 Summer 2002
H&S 412 Summer 2002
H&S 535 Summer 2007
PEP 201 Fall 1996
PEP 310 Fall 1996
PEP 593 Fall 1996

Music
MUSA 125 Summer 2005
MUSA 510 Summer 2005
MUSC 431 Summer 2007
MUSC 438 Summer 2007
MUSC 529 Summer 2005
MUSC 530 Summer 2005
MUSC 531 Summer 2007
MUSC 538 Summer 2007
MUSH 552 Summer 2004
MUST 389 Spring 2003
MUST 589 Summer 2004

Philosophy
PHIL 508 Summer 2007
PHIL 571 Summer 2004

Plant, Soil, and Entomological Sciences
ENT 484 Fall 1996
PLSC 416 Summer 2004
SOIL 557 Fall 1996

Sociology and Anthropology
JS 310 Summer 2007
SOC 491 Summer 2007

Statistical Science
STAT 262 Spring 2003

2. Change the status of the following courses from Active to Dormant [**Effective**: Summer 2013]

Aerospace studies
AERO 292

Agricultural Education and 4-H Youth Development
AGED 583

Sociology and Anthropology
ANTH 497
JS 530
JS 570

Art and Architecture
ARCH 412
ART 282
ID 253

Biological and Agricultural Engineering
BAE 372

BAE 386
BAE 483

Biological Sciences
MMBB 576

Business
BUS 423
ECON 525

Conservation Social Sciences
CSS 236
CSS 541
CSS 564
CSS 566
CSS 570
CSS 571

Chemistry
CHEM 565

Civil Engineering
CE 557
CE 569
GEOE 420

Core Science
CORS 211
CORS 212
CORS 214
CORS 216

Curriculum and Instruction
CTE 185
CTE 451
CTE 490
CTE 497
CTE 543

Education
ED 542

Electrical and Computer Engineering
ECE 453
ECE 575
ECE 577

English
ENGL 474

Environmental Engineering
ENVE 519

Environmental Science
ENVS 555

Family and Consumer Sciences
FCS 521
FCS 551

Fish and Wildlife Sciences
FISH 520
WLF 548

Forest, Range, and Fire Sciences
FOR 594
FORP 483

Geography
GEOG 516

Geological Sciences
HYDR 566

History
HIST 459
HIST 559

Law
LAW 915

Leadership and Counseling
AOLL 516
AOLL 543
EDAD 510
EDAD 585

Movement Sciences
DAN 523
PEP 460
REC 211
REC 212
REC 213
REC 214
REC 217
REC 219

Music
MUSA 150
MUSA 325
MUSA 350
MUSA 525
MUSH 417
MUSH 517

Philosophy
PHIL 365
PHIL 480

Plant, Soil, and Entomological Sciences
PLSC 507
SOIL 528

Political Science
POLS 439
POLS 444
POLS 495
POLS 539
POLS 544

Psychology and Communication Studies
COMM 449
PSYC 517

3. Change the curricular requirements of **Engineering Management** (M.Engr.) [**Effective**: Summer 2013]

Master of Engineering. General M.Engr. requirements apply. The Engineering Management degree requires ~~34~~ 30 credits; a minimum of ~~18~~ 15 credits must be engineering courses. The degree program includes 12 credits of required courses (see below) and the rest are electives based on particular program requirements. Each student will design a study plan in consultation with the Engineering Management Student Advisor which is then approved by the Director. Nearly all of the Engineering Management students do not live in Moscow and are allowed to take classes from other universities, especially elective classes, as appropriate and following University of Idaho policy for transfer courses.

Required Courses (12 credits):

Acct 582	Enterprise Accounting (3 cr)
Bus 513	Leadership and Organizational Behavior (3 cr)
EM 510	Engineering and Technology Management Fundamentals (3 cr)
Stat 431	Statistical Analysis (3 cr)