General Curriculum Report #271

UNIVERSITY OF IDAHO - REGISTRAR'S OFFICE
October 25, 2013

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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Accounting

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

Acct J415/J515 Advanced Financial Accounting & Reporting (3 cr)
In-depth coverage of selected topics in financial accounting designed to introduce students to applied research in the technical literature and enhance students' ability to interpret and apply accounting standards promulgated by official standard setting entities. May include evening exams. Additional class meetings, projects, and/or assignments required for graduate credit.
Prereq: *Acct ~~315~~414 or Graduate Standing*

Acct 585 Estate and Elder Planning (3 cr)
Gift and estate tax consequences on property transfer during life and at death, tax research, and estate planning, elder planning, and personal financial planning. May include evening exams. Recommended Preparation: Acct 484/584. (Spring only)
Prereq: *Acct 483*

Acct 590 Advanced Auditing Seminar (3 cr)
Independent auditor's role, legal responsibilities, and code of conduct; concepts, standards, and methods in audit judgment formulation.~~; includes statistical and other sampling methods and EDP auditing techniques.~~ (Spring only)
Prereq: *Acct 492 ~~and 570~~*

Agricultural Economics and Rural Sociology

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

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

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

Agricultural Education and 4-H Youth Development

1. Add the following course [**Effective**: Summer 2014]

AgEd 471 Senior Capstone in Agricultural Education (1 cr)
This course serves as the senior capstone course for the Bachelors of Science degree in Agricultural Education. The course meetings will include a meeting during the Idaho FFA State Leadership Conference in April, a final presentation, and a senior capstone debriefing meeting at the end of the student-teaching field-experience.
Prereq: *AgEd 470*
Coreq: *AgEd 460 and AgEd 461*

Recommended Short Course Title: Senior Capstone in Ag. Ed.

2. Change the following courses [**Effective**: Summer 2014]

AgEd 460 Practicum: Secondary School Teaching in Agriculture (10 cr)
~~Ten~~ fifteen (15) wks of practical experience student teaching in secondary agriculture program~~; in addition each student will be expected to complete one wk of early field-based experience at his or her student teaching center, to be completed the first wk of school after Jan. 1~~. (Spring only)
Prereq: *Admission to the Teacher Education Program, and perm of dept*

AgEd 461 Student Teaching Portfolio (2 cr)
Summary of the ~~10~~15-week practicum experience; a notebook portfolio to include unit lesson plans, daily teaching plans, video~~tape~~ example of teaching, report of early field experience, daily journal, summary of 10 positive and 10 challenging teaching experiences, supervisory assessments of teaching by cooperating instructor and university supervisor, and cooperating teacher's final evaluation. (Spring only)

3. Change the curricular requirements of **Agricultural Education** (B.S.Ag.Ed.) [**Effective**: Summer 2014]

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

This major is approved by the State Board of Professional-Technical Education for the preparation of high school agriculture instructors. Graduates who have completed at least 28 credits in agricultural education, and who meet the state certification requirements for a Standard Secondary Teaching Certificate, are eligible to teach secondary agricultural science and technology in Idaho. Students must be admitted to the Teacher Education Program, which requires a grade-point average of at least 2.75, before being allowed to enroll in upper-division teacher education courses and participate in student teaching. The Idaho teaching certificate transfers to most states in the US. In addition, government and business agencies and the Cooperative Extension System that seek persons with education in both agriculture and education provide employment opportunities for graduates of this curriculum.

AgEd 180	Introduction to Agricultural Education (1 cr)
AgEd 351	Principles and Philosophy of Professional-Technical Education (3 cr)
AgEd 358	Supervising FFA and SAE Programs (3 cr)
AgEd 451	Communicating in Agriculture (3 cr)
AgEd 452	Methods of Teaching Agriculture (4 cr)
AgEd 453	Program Planning in Secondary and Adult Ag Education (3 cr)
AgEd 454	Facilities Organization and Management (2 cr)
AgEd 460	Practicum: Secondary School Teaching in Agriculture (10 cr)
AgEd 461	Student Teaching Portfolio (2 cr)
AgEd 470	Proseminar in Agricultural Education (~~2~~ 1 cr)
AgEd 471	Senior Capstone in Agricultural Education (1 cr)
ASM 107	Beginning Welding (2 cr)
ASM 202	Agricultural Shop Practices (2 cr)
ASM 210	Small Engines (2 cr)
ASM 407	Advanced Welding (1 cr)
Biol 115	Cells and the Evolution of Life (4 cr)
Comm 101	Fundamentals of Public Speaking (2 cr)
Econ 202	Principles of Microeconomics (3 cr)
EDCI 201	Contexts of Education (2 cr)
EDCI 301	Learning, Development, and Assessment (3 cr)
EDCI 453	Phonics, Phonological Awareness, Fluency, and Assessment (1 cr)
EDCI 463	Literacy Methods for Content Learning (3 cr)
EDSP 300	Educating for Exceptionalities (2 cr)
Psyc 101	Introduction Psychology (3 cr)

Ag electives, which include a minimum of 6 cr in Ag Econ, 6 cr in Animal Sci, 6 cr in Plant Sci, 3 cr in Horticulture, and 4 cr in Soils (25 cr)

One course from the following (4 cr):

Chem 101	Introduction to Chemistry I (4 cr)
Chem 111	Principles of Chemistry I (4 cr)

One of the following (3 cr):

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

One course from the following (3-4 cr):

~~Math 130~~	~~Finite Math (3 cr)~~
Math 137	Algebra with Applications (3 cr)
Math 143	Pre-calculus Algebra & Analytical Geometry (3 cr)
Math 160	Survey of Calculus (4 cr)
Math 170	Analytical Geometry & Calculus I (4 cr)

One course from the following (4 cr):

Phys 100, Phys 100L	Fundamentals of Physics and Lab (4 cr)
Phys 111, Phys 111L	General Physics I and Lab (4 cr)

~~Ag electives, which include a minimum of 6 cr in Ag Econ, 6 cr in Animal Sci, 6 cr in Plant Sci, 3 cr in Horticulture, and 4 cr in Soils (40 cr)~~
~~Natural and applied science electives, which include Chem 101 and Biol 115 (16 cr)~~

Courses to total ~~132~~ 128 credits for this degree

Animal and Veterinary Science

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

AVS 305 Animal Nutrition (3 cr)
Introduction of the concepts and principles of animal nutrition; fundamentals of nutrients and their digestion and metabolism; various biochemical pathways and processes for nutrient utilization; nutrition fundamentals for a range of monogastric and ruminant animals. Recommended Preparation: Biol 115 and Chem 111. Cooperative: open to WSU degree-seeking students.
Prereq: *AVS 109*

AVS ~~271~~ 371 Anatomy and Physiology (3 cr)
Structure and function of tissues and organ systems of domestic and wild animals.
Prereq: *Biol 115 ~~or MMBB 250~~*

AVS ~~273~~ 373 Anatomy and Physiology Lab (1 cr)
Students will perform dissections and examine the relationship between the organization of tissues and their distinct function within the animal. Field trips may be incorporated should teaching opportunities arise though most instruction will be confined to the Physiology and Anatomy laboratory and classroom. (Fall only)
Prereq: ***AVS 109,*** *Biol 115, and Animal and Veterinary Science major*
Coreq: *AVS ~~271~~371*

2. Change the status from Dormant to Active for the following course [**Effective**: Summer 2014]

AVS 563 Growth and Lactation (3 cr)
See AVS J463/J563.

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

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

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

One of the following (3 cr):

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

One of the following (3 cr):

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

Complete one of the following four options:

A. Business Option

Acct 201	Introduction to Financial Accounting (3 cr)
Acct 202	Introduction to Managerial Accounting (3 cr)
AgEc 278	Farm and Ranch Management (4 cr)
AgEc 289	Agricultural Markets and Prices (3 cr)
~~AVS 222~~	~~Animal Reproduction and Breeding (3 cr)~~
AVS 306	Feeds and Ration Formulation (4 cr)
AVS 363	Animal Products for Human Consumption (4 cr)
AVS 450	Issues in Animal Agriculture (1 cr)
BLaw 265	Legal Environment of Business (3 cr)
Chem 275	Carbon Compounds (3 cr)
Econ 201	Principles of Macroeconomics (3 cr)
Econ 202	Principles of Microeconomics (3 cr)

Business electives (6 cr)
6 crs of Upper Division Ag Econ

One of the following (3 cr):

AgEc 301 Managerial Economics: Production (3 cr)
AgEc 302 Managerial Economics: Consumption & Markets (3 cr)

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

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

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

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

~~Species Production Courses (6 cr from a., or 3 cr from a. and b.):~~
~~a. AVS 472 Dairy Cattle Management, AVS 474 Beef Cattle Science, or AVS 476 Sheep Science (3 cr)~~
~~b. AVS 466 Equine Science and Management, or AVS 468 Companion Animal Biology & Management (3 cr)~~
Courses to total ~~132~~ 120 credits for this degree

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

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

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

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

One of the following (1-2 cr):
MMBB 155 Introductory Microbiology Laboratory (1 cr)
MMBB 255 General Microbiology Lab (2 cr)
Courses to total ~~132~~ 120 credits for this degree

C. Production Option
AgEc 278 Farm and Ranch Management (4 cr)
AgEc 289 Agricultural Markets and Prices (3 cr)
AVS 222 Animal Reproduction and Breeding (3 cr)
AVS 306 Feeds and Ration Formulation (4 cr)
AVS 330 Genetics of Livestock Improvement (3 cr)
AVS 363 Animal Products for Human Consumption (4 cr)
AVS 411 Ruminant Nutrition (3 cr)
AVS 450 Issues in Animal Agriculture (1 cr)
AVS 471 Animal Disease Management (3 cr)
Chem 275 Carbon Compounds (3 cr)
Econ 202 Principles of Microeconomics (3 cr)
~~REM 151 Rangeland Principles (2 cr)~~
REM 221 or For 221 Ecology (3 cr)
300 or 400 level Life science elective (chosen from Biol, Ent, Fish, MMBB, PlSc, REM, Soil, or WLF) (3 cr)

One of the following (4 cr):

Chem 101 Introduction to Chemistry I (4 cr)
Chem 111 Principles of Chemistry I (4 cr)

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

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

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

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

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

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

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

Courses to total ~~132~~ 120 credits for this degree

D. Science/Preveterinary Option

AVS 452 Physiology of Reproduction (4 cr)
Biol 116 Organisms and Environments (4 cr)
Chem 111 Principles of Chemistry I (4 cr)
Chem 112 Principles of Chemistry II (5 cr)
Chem 277, Chem 278 Organic Chemistry I and Lab (4 cr)
Phys 111, Phys 111L General Physics I and Lab (4 cr)
Phys 112, Phys 112L General Physics II and Lab (4 cr)

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

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

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

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

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

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

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

Biol 474 Principles of Developmental Biology (3 cr)
Biol 483 Mammalogy (3 cr)
Chem 372 Organic Chemistry II (3 cr)
MMBB 460 Microbial Physiology (3 cr)

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

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

~~Select either 3 additional credits from a. or an initial 3 credits from b.:~~
~~a. AVS 472 Dairy Cattle Management, AVS 474 Beef Cattle Science, or AVS 476 Sheep Science (3 cr)~~
~~b. AVS 466 Equine Science and Management, or AVS 468 Companion Animal Biology & Management (3 cr)~~
Courses to total ~~132~~ 120 credits for this degree

Biological Sciences

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

Biol 590 Teaching Practicum (2 cr)
Same as MMBB 590. Teaching by master's students under faculty supervision.
Prereq: *Permission*

Recommended Equivalent Course: Biol 521

Biol 591 Teaching Practicum (2 cr, max 4)
Same as MMBB 591. Teaching by Ph.D. students under faculty supervision.
Prereq: *Permission*

Recommended Equivalent Course: Biol 521

MMBB 300 Survey of Biochemistry (3 cr)
See Biol 300.

MMBB 380 Introductory Biochemistry (4 cr)
See Biol 380.

MMBB 382 Introductory Biochemistry Laboratory (2 cr)
See Biol 382.

MMBB 589 Advanced Topics in Molecular Biology, Microbiology and Biochemistry (2 cr, max 4)
Recent research in enzymes, hormones, complex lipids, vitamins, nucleic acids, antibiotics, viruses, and MMBB genetics.
Prereq: *Permission*

MMBB 590 Teaching Practicum (2 cr)
See Biol 590.

Recommended Equivalent Course: Biol 521

MMBB 591 Teaching Practicum (2 cr, max 4)
See Biol 591.

Recommended Equivalent Course: Biol 521

2. Add the following courses [**Effective**: Summer 2014]

Biol 315 Genetics Lab (1 cr)
Laboratory on genetic mechanisms in animals, plants, and microorganisms. One three hr. lab per wk.
Prereq: *Biol 115 or Biol 250*
Coreq: *Biol 310*

Biol 324 Comparative Vertebrate Anatomy (4 cr)

Evolution of vertebrates and their organ systems with an emphasis on structure – function relationships. Two lectures and two 3-hour labs a week. (Fall only, alt/yrs)
Prereq: Biol 115, Biol 116, and Biol 213; or Permission

3. Change the following courses [**Effective**: Summer 2014]

Biol 101 Perspectives in Biology (1 cr)
Open only to majors. Intro to the disciplines in the fields of biology; current research topics. ~~Graded P/F.~~ (Fall only)

Biol 310 Genetics (~~4~~ 3 cr)
Genetic mechanisms in animals, plants, and microorganisms. Three hours of lec per ~~and one 3-hr lab a~~ wk. (Fall only)
Prereq: *Biol 115 or ~~MMBB~~ Biol 250*

Biol 300 Survey of Biochemistry (3 cr)
~~Same as MMBB 300.~~ Carries no credit after ~~MMBB 380/~~Biol 380. Survey of biochemical principles and the molecular structure and function that describe the chemical basis of life.~~structure, function, and metabolism of major constituents of living systems.~~ (Fall ~~and Summer~~ only)
Prereq: *Chem 101 or Chem 111*
Coreq: *Chem 275 or Chem 277*

Biol 380 ~~Introductory Biochemistry~~Biochemistry I (4 cr)
~~Same as MMBB 380.~~ Carries one credit after ~~MMBB 300/~~Biol 300. Introduction to the structure and function of major molecular constituents of living systems. Emphasis on proteins, enzyme kinetics and catalysis, carbohydrate metabolism. Three hrs lecture and one hr with interactive problem solving. (Fall only)~~Introduction to the structure, function, and metabolism of major constituents of living systems. Three hrs lec and one hr with interactive problem solving. Recommended preparation: Chem 253, Chem 254 and Chem 372. (Fall and Summer only)~~
Prereq: *~~Chem 101 or Chem 111;~~Chem 112 and Chem 277*

Biol 382 ~~Introductory Biochemistry~~Biochemistry I Laboratory (2 cr)
~~Same as MMBB 382.~~ Lab training in modern methods. One 3-hr lab and one 1-hr recitation a wk. (Fall only)
~~***Prereq:*** *Chem 101 or Chem 111; and Chem 278*~~
Coreq: *Biol 380 or equivalent*

~~MMBB~~ Biol 250 General Microbiology (3 cr)
May be used with ~~MMBB~~ Biol 255 as general education credit in J-3-b. ~~Same as FS 250.~~ Introduction to nature and activity of bacteria and other microorganisms; their importance in all life systems. Three hrs of lec per wk. (Fall only)
Prereq: *Chem 101 or Chem 111*

~~MMBB J442/J542~~Biol J454/J554 ~~Advanced~~ Biochemistry II (3 cr)
~~Same as FS J442/J542. MMBB~~ Biol 554~~542~~ same as Chem 542. Intermediate biochemistry; areas of emphasis include molecular biology, nitrogen and lipid metabolism~~, molecular physiology, and molecular biology~~. Extra oral and/or written assignments required for grad credit. (Spring only)
Prereq: *Chem 372; ~~MMBB~~ Biol 380 or Chem 302 or Chem 306; or Permission*

4. Change the curricular requirements of **Biology** (B.A. or B.S.) [**Effective**: Summer 2014]

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 213, Biol 310, and Biol 312,.

Required course work includes the university requirements (see regulation J-3), 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 213	Principles of Biological Structure and Function (4 cr)
Biol 310	Genetics (~~4~~ 3 cr)
Biol 315	Genetics Lab (1 cr)
Biol 312	Molecular and Cellular Biology (3 cr)
Biol 313	Molecular and Cellular Laboratory (1 cr)
Biol 314	Ecology and Population Biology (4 cr)
~~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)
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)

One of the following (2 cr):
Biol 405 Practicum in Anatomy Laboratory Teaching (2 cr)

Biol 407	Practicum in Biology Laboratory Teaching (2 cr)
Biol 408	Practicum in Human Physiology Laboratory Teaching (2 cr)
Biol 411	Senior Capstone (2 cr)
Biol 495	Research in Molec/Cell/Dev Biology (2 cr)
Biol 496	Research in Ecology and Evolution (2 cr)
Biol 497	Research in Anatomy and Physiology (2 cr)

One of the following (4 cr):

Chem 275, Chem 276	Carbon Compounds and Lab (4 cr)
Chem 277, Chem 278	Organic Chemistry and Lab (4 cr)

One of the following (4 cr):

Math 160	Survey of Calculus (4 cr)
Math 170	Analytic Geometry and Calculus I (4 cr)

One of the following (3-4 cr):

~~MMBB~~ Biol 300	Survey of Biochemistry (3 cr)
~~MMBB~~ Biol 380	Introductory Biochemistry (4 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 324	Comparative Vertebrate Anatomy (4 cr)
Biol 423	Comparative Vertebrate Physiology (3 cr)
Biol 428	Microscopic Anatomy (4 cr)
Biol 450	Comparative Vertebrate Reproduction (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.

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Business

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

EMBA 500 Master's Research and Thesis (1-10 cr, max 10)
Students enrolled in the EMBA program must take EMBA 500.

EMBA 506 Research Seminar (cr arr)

Recommended Equivalent Course: EMBA 599

EMBA 508 Decision-Making and Critical Thinking (1 cr)
Theory and practice of decision making in complex environments.
Coreq: *EMBA 507 and EMBA 509*

Recommended Equivalent Course: EMBA 535

EMBA 515 External Analysis (1 cr)
Examination of the economic, legal, and competitive factors influencing leadership and firm performance.
Coreq: *EMBA 512, EMBA 514, and EMBA 516*

Recommended Equivalent Course: EMBA 512

2. Add the following course [**Effective**: Summer 2014]

EMBA 599 (s) Non-thesis Master's Research (1-3 cr, max 6)
Research not directly related to a thesis or dissertation.
Prereq: *Permission*

Recommended Equivalent Course: EMBA 506

3. Change the following course [**Effective**: Summer 2014]

EMBA 509 ~~Introduction to~~ Team Building & Group Dynamics (1 cr)
Design and development of work groups and teams; influences, issues, and problems affecting team productivity.
~~***Coreq:*** *EMBA 507 and EMBA 508*~~

EMBA 510 Summer Integrative Experience (3 cr)
Participation in an integrative project of the students own design in consultation with faculty. Possible topics include international study and exchange, social marketing, community outreach, and research writing for publication.
~~***Prereq:*** *EMBA 521, EMBA 523, EMBA 524 and EMBA 525*~~

EMBA 512 The External Context of Business (3 cr)
Examines the economic, social, technological, legal, and competitive environment of business, with emphasis on the interfaces between business, society, and the natural environment and the challenges and opportunities these interfaces create.
~~***Coreq:*** *EMBA 514*~~

EMBA 514 Financial Reporting and Financial Management (4 cr)
Introduction to financial accounting, financial statement analysis, and capital budgeting. Employs the tools of accounting and finance to help managers make short-term and long-term decisions. Topics include the role of financial reporting, analysis and auditing in the capital markets, long-term financing through capital structure management, and working capital management.
~~***Prereq:*** *EMBA 515, EMBA 508 and EMBA 509*~~
~~***Coreq:*** *EMBA 512*~~

EMBA 516 Strategic Business Communication (1 cr)
Delivery of strategic messages to internal and external audiences; cross-cultural communication.
~~***Prereq:*** *EMBA 508, and EMBA 509*~~
~~***Coreq:*** *EMBA 512, EMBA 514, and EMBA 515*~~

EMBA 517 Ethical Leadership (1 cr)
Examines the foundations of business ethics, and the challenges of ethical decision making and leadership in an environment of globalization and change.
~~***Coreq:*** *EMBA 509 and EMBA 516*~~

EMBA 521 Strategy Formulation and Execution (2 cr)
Formulation and implementation of competitive strategies to ~~identify,~~ build and leverage core competencies in an uncertain, competitive, and ambiguous environment. ~~Theory and practice of strategy implementation and execution.~~ Emphasizes assessing the alignment of strategy with action throughout the organization. ~~as well as strengthening linkages through business process design and measurement.~~
Prereq: *EMBA 512~~, and EMBA 514~~*
~~***Coreq:*** *EMBA 533, EMBA 524, EMBA 525, and EMBA 526*~~

EMBA 522 Innovation and New Product Development (3 cr)
Explores the framework management must create in order to promote innovation, including aspects of strategy, process, resources, organization and learning, and the gathering of expertise from every corner of the organization and beyond.
~~***Prereq:*** *EMBA 510, EMBA 517, EMBA 521, EMBA 533, EMBA 524, and EMBA 525*~~
~~***Coreq:*** *EMBA 521, EMBA 524, and EMBA 525*~~

EMBA 524 Strategic Cost and Process Management (3 cr)
This course examines the concepts and tools needed for systematically designing, evaluating, and improving business processes to better achieve organizational objectives and for understanding and managing the costs associated with these processes and the products and services resulting from them.
~~***Prereq:*** *EMBA 512, and EMBA 514*~~
~~***Coreq:*** *EMBA 517, EMBA 521, EMBA 533, and EMBA 525*~~

EMBA 525 Managing Relationships to Influence Behavior (2 cr)
Principles of developing and maintaining exchange relationships. Application of the principles to the practice of managing relationships between the organization and two key stakeholder groups: employees and customers.
~~***Prereq:*** *EMBA 512, and EMBA 514*~~
~~***Coreq:*** *EMBA 517, EMBA 521, EMBA 533, and EMBA 524*~~

EMBA 531 Mass Media and Crisis Communication (1 cr)
Mass media interviews and message strategies; risk and crisis communication.
Prereq: *EMBA 516*
~~***Coreq:*** *EMBA 533, EMBA 534, and EMBA 535*~~

EMBA 533 Launching New Products and Services (2 cr)
Investigates the process sequence for new product development from idea generation through to commercialization and how it fits into overall business strategy. Includes pro-forma analysis of a new product launch, financing and business investment analysis.
Prereq: ~~*EMBA 521,*~~ *EMBA 522*~~*, EMBA 524, EMBA 525*~~
~~***Coreq:*** *EMBA 531, EMBA 534, and EMBA 535*~~

EMBA 534 Managing and Leading Change (~~1~~ 2 cr)
Examines how to lead transformational change and manage mid level organizational change through personal and project initiatives.
~~***Prereq:*** *EMBA 521, EMBA 522, EMBA 524, and EMBA 525*~~
~~***Coreq:*** *EMBA 533 and EMBA 535*~~

EMBA 535 Decision Analysis (3 cr)
Theory and practice of decision making under uncertainty and risk in individual and multi-person settings.
~~***Prereq:*** *EMBA 510, EMBA 521, EMBA 524, EMBA 533, and EMBA 525*~~
~~***Coreq:*** *EMBA 531, EMBA 533, and EMBA 534*~~

EMBA 542 Negotiation and Conflict Management (2 cr)
Theory and practice of negotiation and dispute resolution.
Prereq: ~~*EMBA 532, EMBA 534 and*~~ *EMBA 535*
~~***Coreq:*** *EMBA 543 and EMBA 544*~~

EMBA 543 Assessing to Improve Firm Performance (3 cr)
Evaluation of organizational performance from multiple perspectives using quantitative and qualitative methods.
~~***Prereq:*** *EMBA 532, EMBA 534 and EMBA 535*~~
~~***Coreq:*** *EMBA 542 and EMBA 544*~~

EMBA 544 Risk Management (3 cr)
~~Review of the history, tools, and behavioral aspects of risk management.~~Introduction to the tools, models, and strategic aspects of risk management.
Prereq: *EMBA 514* ~~*532, EMBA 534 and EMBA 535*~~
~~***Coreq:*** *EMBA 542 and EMBA 543*~~

EMBA 545 Integrative Business Analysis (~~1~~ 3 cr, max 3)
All EMBA students must complete a project or business case designed in consultation with faculty prior to graduation. The purpose of the project or case is to integrate and synthesize topics learned in the EMBA program. ~~Individual case analysis will be presented to a panel consisting of members from the EMBA faculty and EMBA Advisory Board.~~
Prereq: ~~*EMBA 508,*~~ *EMBA 509,* ~~*EMBA 510,*~~ *EMBA 512, EMBA 514, EMBA* ~~*515*~~*516, EMBA 517, EMBA 521, EMBA 524, EMBA 525, EMBA 522,* ~~*EMBA 533,*~~ ~~*and*~~ *EMBA 534*~~*, and EMBA 535*~~
~~*Coreq: EMBA 542, EMBA 543, and EMBA 534*~~

EMBA 546 ~~Design~~ Managing for Your Future (1 cr)
A personal perspective on the lessons learned in the EMBA program and a plan on utilizing those lessons in the student's professional career.
~~***Prereq:*** *EMBA 508, EMBA 509, EMBA 510, EMBA 512, EMBA 514, EMBA 515, EMBA 516, EMBA 517, EMBA 521, EMBA 522, EMBA 524, EMBA 525, EMBA 533 EMBA 534, and EMBA 535*~~

~~*Coreq: EMBA 542, EMBA 543, and EMBA 544*~~

Chemistry

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

Chem 542 Biochemistry and Molecular Biology (3 cr)
See ~~MMBB J442/J542~~Biol J454/J554.

2. Change the curricular requirements of **Chemistry** (B.S.) [**Effective**: Summer 2014]

D. Forensics Option

Biol 115	Cells and the Evolution of Life (4 cr)
~~Biol 310~~	~~Genetics (4 cr)~~
Chem 111	Principles of Chemistry I (4 cr)
Chem 112	Principles of Chemistry II (5 cr)
Chem 253, Chem 254	Quantitative Analysis and Lab (5 cr)
Chem 277, Chem 278	Organic Chemistry I and Lab (4 cr)
Chem 305, Chem 307	Physical Chemistry and Lab (4 cr)
Chem 306, Chem 308	Physical Chemistry and Lab (4 cr)
Chem 372, Chem 374	Organic Chemistry II and Lab (4 cr)
Chem 409	Proseminar (1 cr)
Chem 454	Instrumental Analysis (4 cr)
~~CS 101~~	~~Introduction to Computer Science (3 cr)~~
Geol 426	Principles of Forensic Mineralogy and Geology (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)
~~MMBB~~ Biol 250	General Microbiology (3 cr)
~~MMBB~~ Biol 255	General Microbiology Lab (2 cr)
~~MMBB~~ Biol 380	Introductory Biochemistry (4 cr)
~~MMBB~~ Biol 382	Introductory Biochemistry Laboratory (2 cr)
Phys 211, Phys 211L	Engineering Physics I and Lab (4 cr)
Stat 251	Statistical Methods (3 cr)

Any CS course (101 or higher) (3 cr)

One of the following (3 cr):

Biol 310	Genetics (3 cr)
Gene 314	General Genetics (3 cr)

One of the following (4 cr):

Phys 212, Phys 212L	Engineering Physics II and Lab **or**
Phys 213, Phys 213L	Engineering Physics III and Lab (4 cr)

Courses to total 120 credits for this degree

Curriculum and Instruction

1. Add the following courses [**Effective**: Summer 2014]

EDCI 411 Geometry, Measurement, and Trigonometry (3 cr)
Examines topics in measurement, geometry, and trigonometry and the way that grade 5-10 students develop an understanding of these ideas. Emphasis will be placed on recent and seminal research on learning and teaching geometry to develop mathematical practice as described in CCSS-M, especially for topics such as symmetry, congruence and similarity, right triangle trigonometry, transformations, unit, and partitioning of space. Particular emphasis will be placed on extended tasks that expose learners to investigation, conjecture, argumentation, and incorporating dynamic software. ~~Math 517 requires additional project work implementing and evaluating course ideas in the grade 5-10 classroom.~~ Does not count toward mathematics MAT or MS graduate programs.
***Prereq**: Math 236 and admission to Teacher Education; or instructor permission*

Proposed Short Course Title: Geometry, Measurement & Trig

EDCI 533 Educational Policy and Strategic Planning (3 cr)

This course is designed to introduce students to educational policy, the intergovernmental system of education in the US and some of the major issues and challenges confronting US policymakers. This seminar will increase students' understanding of the complexities of educational policy and to assist them in becoming effective leaders and practitioners who inform, shape, and implement education policy. This course has a particular focus federal and state policy in education. We will begin by examining standards-based, market-driven and professionally led models of reform, looking at their underlying theories of change, implementation challenges and the critiques leveled against these approaches.

Proposed Short Course Title: Educational Policy & Planning

EDCI 534 Schools as Organizations (3 cr)
The purpose of this course is to examine the evolution of the "public school" in American society and culture, and then to examine the global competitive forces that are reshaping and driving the evolution of schools in America. We try to understand the role of the school; how schools and educational systems have changed over time; how comparative systems of education have defined their schools/school systems; and finally, we investigate how we can better organize educational systems, schools, and classrooms to address issues of justice, equity, and humanity.

EDSP 530 Assistive Technology and Universal Design for Learning for Pre-K12 (2 cr)
This course is designed to introduce students to assistive technology and universal design for learning as they are woven into the PreK12 community to support all students including those with disabilities access and interact with the general education curriculum. This course will increase participants' understanding of the continuum of assistive technologies to universal design and expose them optimal systematic formats for successful implementation. Focus will move from an IEP team-based process, of student evaluations, reporting, training, and follow-up, to a general education classroom instructional design model with an understanding of the impact on school improvement.

Proposed Short Course Title: Assistive Tech and UDL in PK12

EDSP 531 Single Subject Design Research (3 cr)
Prepares graduate students with knowledge and experience using single subject designs. Single subject designs are quantitative approaches that use specific design features to demonstrate experimental control and internal validity of observable and quantifiable behavior most often displayed and interpreted through line graphs and charts. External validity is demonstrated through replication.
Prereq: *EDSP 540 or equivalent*

EDSP 552 Principles of Leadership in Neurodevelopmental Disorders 1 (3 cr)
Students are trained to move beyond discipline boundaries to provide optimal services to child and adolescents with special health care needs. Enhance skills in evidence based practice via evaluating the validity of published research, understanding the role of outcomes-based information in decision making, and conduct meaningful, scientifically grounded research to improve systems of care to children with special healthcare needs.

Proposed Short Course Title: Principles/Ldrshp/Interdsc 1

EDSP 553 Principles of Leadership in Neurodevelopmental Disorders 2 (3 cr)
Students are trained to move beyond discipline boundaries to provide optimal services to child and adolescents with special health care needs. Enhance skills in evidence based practice via evaluating the validity of published research, understanding the role of outcomes-based information in decision making, and conduct meaningful, scientifically grounded research to improve systems of care to children with special healthcare needs.

Proposed Short Course Title: Principles/Ldrshp/Interdsc 2

EDSP 554 Principles of Leadership in Neurodevelopmental Disorders Autism Enhanced 1 (3 cr)
This course is part of the proposed doctoral course work in Special Education. This course is offered with the assistance/support of the Utah Regional Leadership in Neurodevelopmental Disabilities program (URLEND) and the University of Utah Medical School who offer some of the trainings / clinics that students enrolled in this course participate in. This course is taught in-load by faculty at the Center on Disabilities and Human Development and does not burden the college or department.

Proposed Short Course Title: Principles/Ldrshp/Interdsc/AS1

EDSP 555 Principles of Leadership in Neurodevelopmental Disorders Autism Enhanced 2 (3 cr)
Students are trained to move beyond discipline boundaries to provide optimal services to child and adolescents with special autism spectrum disorders. Students will increase their knowledge of issues related to the definition, epidemiology, and prognosis of ASD, enhance their knowledge of screening and diagnostic measures for ASD, enhance their knowledge of interventions for ASD, engage in research related to ASD, enhance their leadership skills in the area of ASD.

Proposed Short Course Title: Principles/Ldrshp/Interdsc/AS2

2. Change the following course [**Effective**: Summer 2014]

CTE 484 (s) Internship in Career and Technical Education Teaching (3-14 cr, max 28)
Guided observation, supervised instruction, and comprehensive team and independent teaching in school settings.
Prereq: *Admission to teacher education program*
Coreq: *~~CTE 455~~EDCI 401*

3. Change the curricular requirements of **English** (Teaching Major/Minor) [**Effective**: Summer 2014]

A. 46-Credit English Teaching Major

Engl 201	English Grammar: Key Concepts and Terms (1 cr)
Engl 309	Advanced Prose Writing (3 cr)
Engl 341 or Engl 342	Survey of British Literature (3 cr)
Engl 343- Engl 344	Survey of American Literature (6 cr)
Engl 345	Shakespeare (3 cr)
Engl 401	Writing Workshop for Teachers (3 cr)
Engl 441	Introduction to Study of Language (3 cr)
~~Engl 445~~	~~Literature for Adolescents (3 cr)~~

One of the following (3 cr):

Engl 175	Introduction to Literary Genres (3 cr)
Engl 215	Introduction to English Studies (3 cr)

One of the following (3 cr):

Engl 208	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)

One of the following (3 cr):
Engl 445 Literature for Adolescents (3 cr) (recommended)
A 400-level English Literature Course (3 cr)

Two linguistics courses (Engl 442, Engl 443 or Engl 496~~; Engl 443 may be taken concurrently with EDCI 485~~) (6 cr)

Two 400-level English area course (6 cr)

One literature course focusing on multicultural literature (Engl 380, Engl 481, Engl 482, Engl 483, Engl 484; or Engl 485~~404, Engl 481, or Engl 482 when these courses include a major and specific selection of American ethnic literature~~) (3 cr)

In addition to the above teaching major requirements, the following special methods sequence is also required:

EDCI 431	Secondary English Methods (3 cr)
EDCI 441	Secondary English Methods Practicum (1 cr)

B. ~~31~~34-Credit English Teaching Major

Engl 201	English Grammar: Key Concepts and Terms (1 cr)
Engl 309	Advanced Prose Writing (3 cr)
Engl 341 or Engl 342	Survey of British Literature (3 cr)
Engl 343- Engl 344	Survey of American Literature (6 cr)
Engl 345	Shakespeare (3 cr)
Engl 401	Writing Workshop for Teachers (3 cr)
Engl 441	Introduction to Study of Language (3 cr)
~~Engl 445~~	~~Literature for Adolescents (3 cr)~~

One of the following (3 cr):

Engl 175	Introduction to Literary Genres (3 cr)
Engl 215	Introduction to English Studies (3 cr)

One of the following (3 cr):

Engl 442	Linguistics (3 cr)
Engl 443	Language Variation (3 cr)
Engl 496	History of the English Language (3 cr)

One of the following (3 cr):
Engl 445 Literature for Adolescents (3 cr) (recommended)
A 400-level English Literature Course (3 cr)

One literature course focusing on multicultural literature (Engl 380, Engl 481, Engl 482, Engl 483, Engl 484; or Engl 485~~404, Engl 481, or Engl 482 when these courses include a major and specific selection of American ethnic literature~~) (3 cr)

In addition to the above teaching major requirements, the following special methods sequence is also required:

EDCI 431	Secondary English Methods (3 cr)
EDCI 441	Secondary English Methods Practicum (1 cr)

C. 25-Credit English Teaching Minor

Engl 201	English Grammar: Key Concepts and Terms (1 cr)
Engl 309	Advanced Prose Writing (3 cr)
Engl 401	Writing Workshop for Teachers (3 cr)
Engl 441	Introduction to Study of Language (3 cr)

One of the following (3 cr):

Engl 175	Introduction to Literary Genres (3 cr)
Engl 215	Introduction to English Studies (3 cr)

One survey course in both American literature (Engl 343 or Engl 344) and British literature (Engl 341 or Engl 342); at least one of the two survey courses must be Engl 341 or Engl 343 (6 cr)

One literature course focusing on multicultural literature (Engl 380, Engl 481, Engl 482, Engl 483, Engl 484; or Engl 485~~404, Engl 481, or Engl 482 when these courses include a major and specific selection of American ethnic literature~~) (3 cr)

English

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

Engl 095 Small-Group Writing Tutorial (0 cr)
Weekly small-group tutorial to help students meet the challenges of academic writing required in English 101. Concurrent enrollment in English 101 required. Graded Pass/Fail.
Coreq: *Engl 101*

Recommended Equivalent Course: Engl 109

2. Add the following courses [**Effective**: Summer 2014]

Engl 109 Writing Studio (1 cr)
Student-centered group tutorial focusing on writing improvement connected to the ENGLISH 101 course. Graded Pass/Fail.
Coreq: *Engl 101*

Engl 322 Environmental Literature and Culture (3 cr)
Introduction to environmentally-oriented literature and other cultural texts, such as visual art, music, and film. Focus on British and American traditions of nonfiction nature writing, nature poetry, and environmental fiction, but may include work from other countries and regions.

Proposed Short Course Title: Environmental Lit and Culture

*Note: This course carries the standard UPDV English prereqs and the prereqs for Literature courses: **Prerequisites:** Students may enroll for a second-semester course in English without having had the first-semester course, unless it is a stated prerequisite to the second-semester course. Engl 101 and Engl 102 are prerequisite to all upper-division courses; Engl 175 or Engl 257 or Engl 258 is a prerequisite or co-requisite to literature courses numbered 300 and above. A transfer student who lacks Engl 101 or Engl 102, or both, may take either or both for credit even though he or she has already taken a literature course for which Engl 101 or Engl 102 is prerequisite at UI. In addition, for English majors Engl 215 or permission of instructor also is a prerequisite or co-requisite to literature courses numbered 300 and above.

3. Change the following courses [**Effective**: Summer 2014]

Engl ~~441~~ 241 Introduction to the Study of Language (3 cr)
Same as Anth ~~441~~241. Surveys of sound patterns, morphological processes and syntactic structures; questions of language acquisition, variation, and history; exercises from a variety of languages, with emphasis on American English.

Engl 581 Techniques of Poetry (3 cr, max arr)
A substantial and highly analytical examination of the art and craft of poetry, from a writerly perspective.
Prereq: *Admission to the MFA in Creative Writing program or instructor permission*

Engl 582 Techniques of Fiction (3 cr, max arr)
A substantial and highly analytical examination of the art and craft of fiction, from a writerly perspective.
Prereq: *Admission to the MFA in Creative Writing program or instructor permission*

Engl 583 Techniques of Nonfiction (3 cr, max arr)
A substantial and highly analytical examination of the art and craft of nonfiction, from a writerly perspective.
Prereq: *Admission to the MFA in Creative Writing program or instructor permission*

Engl 591 MFA Poetry Workshop (3 cr, max arr)
Advanced poetry writing workshop.
Prereq: *Admission to the MFA in Creative Writing program or instructor permission~~Graduate level only; Permission by manuscript screening~~*

Engl 592 MFA Fiction Workshop (3 cr, max arr)
Advanced fiction writing workshop.
Prereq: *Admission to the MFA in Creative Writing program or instructor permission~~Graduate level only; Permission by manuscript screening~~*

Engl 593 MFA Nonfiction Workshop (3 cr, max arr)
Seminar on the evolving genre of "literary non-fiction": using modes of fiction, drama, and poetry for nonfictive aims, such as memoirs or autobiography, travel narrative, and character sketch; workshop on participants' writing in the genre.
Prereq: *Admission to the MFA in Creative Writing program or instructor permission~~Graduate level only; permission by manuscript screening~~*

Engl 595 MFA Novel Workshop (3 cr, max 6)
A two-semester intensive seminar/workshop on the craft of novel writing, which includes directed writing, individual conferencing, critical analysis of exemplary novels, as well as critical response to peer work. Students will make substantial progress toward the completion of a novel of publishable quality.

Prereq: *Admission to the MFA in Creative Writing program or instructor permission~~Graduate Standing and permission by manuscript screening~~*

4. Change the status of the following course from Dormant to Active [**Effective**: Summer 2014]

Engl 515 ESL Teaching Practicum (3 cr)
Organization and teaching of an ESL course under direction of practicum instructor. ~~Graded P/F. (Spring, Alt/yrs)~~
Prereq: *Engl ~~514~~ 441 or Permission*

5. Change the curricular requirements of **English-Literature Emphasis** (B.A.) [**Effective**: Summer 2014]

A. Literature Emphasis

Foundations (~~6~~ 9 cr):
Engl 215 Introduction to English Studies (3 cr)
Engl 230 Introduction to Film Studies (3 cr)
Engl 310 Literary Theory (3 cr)

Literary History (~~18~~ 15 cr):
Engl 345 Shakespeare or a 400-level course in literature before 1800 (3 cr)
One upper-division course in literature before 1900 (3 cr)

One course from the following (3 cr):
Engl 257 or Engl 258 Literature of Western Civilization (3 cr)
Engl 221 History of World Cinema I (3 cr)
Engl 222 History of World Cinema II (3 cr)
~~Engl 345 Shakespeare or a 400-level course in literature before 1800 (3 cr)~~
~~One upper-division course in literature before 1900 (3 cr)~~

~~Three~~ Two courses from the following (~~9~~ 6 cr):
Engl 341 Survey of British Literature (3 cr)
Engl 342 Survey of British Literature (3 cr)
Engl 343 Survey of American Literature (3 cr)
Engl 344 Survey of American Literature (3 cr)

Linguistics (3 cr):
Engl ~~441~~241 Introduction to the Study of Language (3 cr)
Engl 496 History of the English Language (3 cr)

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

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

Capstone (3 cr):
Engl 490 Senior Seminar (3 cr)
Courses to total 120 credits for this degree

Geography

1. Change the following course [**Effective**: Summer 2014]

Geog 330 Urban Geography (~~3-4~~3 cr)
Theory and models of the functions, origin, development, structure, and distribution of cities; land-use classification; geographic aspects of city planning. One hour additional meeting per week or project for fourth credit. One 1-day field trip. (Fall only)

2. Change the curricular requirements of **Geographic Information Systems** (UG Academic Certificate) [**Effective**: Summer 2014]

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

Geog 385 GIS Primer (3 cr)
Geog 475 Intermediate GIS (3 cr)

Electives (9 cr)

Geog 390	Cartographic Design & Geovisualization (3 cr)
Geog 407	Spatial Analysis and Modeling (3 cr)
Geog 424 or Geog 524	Hydrologic Applications of GIS and Remote Sensing (3 cr)
Geog 483 or Geog 583	Remote Sensing/GIS Integration (3 cr)
Geog 486 or Geog 586	Transportation, GIS and Planning (3 cr)
Geog 479	GIS Programming (3 cr)
Geog 575	Advanced GIS (3 cr)
Geog 587	Advanced Topics in Remote Sensing (3 cr)

Courses to total 15 credits for this certificate

Geological Sciences

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

Geol 308 Ground Water Geology (3 cr)
Geologic factors controlling the infiltration, accumulation and movement of ground water in igneous, metamorphic and sedimentary rock environments. (Spring only)
Prereq: *Geol 101/101L or Geol 111/111L, and Math 130 or Math 143*

Geol 390 Petroleum Geology (2 cr)
Petroleum technology for geologists. (Fall only)
Prereq: *Geol 101/101L or Geol 111/111L*

Hydr J413/J513 Ground Water Resource Evaluation (3 cr)
Quantitative methods for the estimation of aquifer coefficients related to ground water resource evaluations. For grad credit, students are required to complete an additional independent research paper/project.
Prereq: *Geol 309*

2. Add the following courses [**Effective**: Summer 2014]

Geol J433/J533 Geodynamics (4 cr)
This class focuses on the processes and mechanisms that cause motions within and on the surface of the Earth and other planets. Topics to be covered include plate boundary deformation, plate flexure, planetary heat transfer, convection in the mantle and core, melting and melt transport, magma dynamics, and large-scale lithospheric deformation. For graduate credit students will be expected to complete a research project and report. Course includes 3 hours of lecture and one 3 hour lab per week. Offered fall semester. Recommended Preparation: Math 175 or equivalent. Cooperative: open to WSU degree-seeking students.
Prereq: *Math 170 or equivalent*

3. Add the following prerequisite to all applicable Geology courses (Geol) courses [**Effective**: Summer 2014]

Prerequisite: Math 143 with a grade of 'C' or better is a prerequisite to all upper-division Geol courses.

4. Change the following course [**Effective**: Summer 2014]

Geol 422 Principles of Geophysics (~~3~~ 4 cr)
Outline of geophysical methods for geological investigations. One 1-day field trip. Course includes 3 hours of lecture and one 2 hour lab per week.

History

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

Hist 385 History of Sexuality (3 cr)
Analysis of sexuality and gender in Europe and North America, primarily from 1750 to the present. Focus upon changing sexual behavior both inside and outside of marriage and the efforts to regulate, repress, or encourage sexual behavior and attitudes. (Alt/yrs)
Prereq: *Junior standing or Permission*

Hist 450 (s) Topics in Classical Civilization (3 cr, max 9)
Same as FLEN 450. Examines changing advanced topics in Greek and Rome Civilization, 2000 BC-500 AD. May be taken up to three times for credit. Recommended Preparation: FLEN 270 or Hist 270.

Hist J451/J551 French Revolution and Napoleonic Era (3 cr)
May be used as general education credit in J-3-d. Conditions in pre-revolutionary and revolutionary France; the Napoleonic state and impact of French changes upon Europe.

Hist J469/J569 Modern France, 1815-present (3 cr)
May be used as general education credit in J-3-d. Cultural, social, and economic transformations in French society from 1815 to the present. Impact of industrialization, revolution, and war upon people's lives.

2. Change the following courses [**Effective**: Summer 2014]

Hist 350 ~~European Cultural History, 1600~~The Age of Enlightenment: European Culture & Ideas, 1680-1800 (3 cr)
History of thought, material culture, and mentalities in Enlightenment society; focus upon intersection between science and enlightenment values; new ideas about individualism, democracy, race, and gender.~~History of thought, material culture, and "mentalities" in early modern Europe, including the Scientific Revolution and Enlightenment.~~

Recommended Short Course Title: Age of Enlightenment

Hist 366 ~~Intellectual and Cultural History of Modern Europe~~Modern European Cultural and Intellectual History, 1880-1980 (3 cr)
May be used as general education credit in J-3-d. Evolution of major cultural attitudes and values in modern European society; relation between modernity and cultural modernism; the impact of war and revolution; key ideas and intellectual movements associated with Nietzsche, Freudianism, the avant-garde, existentialism, structuralism, and postmodernism.~~Evolution of attitudes and values of European societies during the 19th and 20th centuries; influence of key events and ideas, including those of Marx, Darwin, Freud, Einstein, and Sartre.~~

Recommended Short Course Title: Modern European Culture

Hist J452/J552 ~~19th Century~~ Europe in the Age of the Revolution, 1770-1880 (3 cr)
The social, political, and cultural dimensions of revolutions of 1789, 1830, 1848, and 1870; impact of industrial revolution upon daily life; process of European nation-building; new ideologies of liberalism, socialism, conservatism, and romanticism. Additional work required for graduate credit.~~Nationalism and nation-building; Imperialism and the Great Powers; Capitalism and Socialism; tensions and rivalries leading to WWI.~~

Recommended Short Course Title: Europe in the Age of Revolution

Interdisciplinary Studies

1. Add the following course [**Effective**: Summer 2014]

Intr 491 College of Letters, Arts, and Social Sciences Ambassadors (1 cr, max 2)
Student ambassadors are selected through an application and interview process. Students will learn skills in leadership, communication, networking, public speaking and time management. Students will be responsible for representing the College of Letters, Arts and Social Sciences in various recruiting activities and events.

Recommended Short Course Title: CLASS Ambassadors

International Studies

1. Add the following courses [**Effective**: Summer 2014]

IS 323 International Monetary and Trade Organizations (3 cr)
Explores the interaction of countries and international economic/financial institutions, with focus on the political questions that arise from said interaction and organizational policies, the effect of and the conditions for cooperation in international trade and finance, and related legal questions from the treaties that govern this type of cooperation. Recommended Preparation: Econ 201 and PolS 237 or IS 310.

Recommended Short Course Title: Intl Monetary/Trade Orgs

IS 485 (s) Martin Scholars (3 cr)
The Martin Scholars program considers a topic related to international conflict and the resolution thereof in a broad context, with specific topics mutually selected by a designated faculty member and the director of the Martin Institute. It serves a small group of students each fall term, with additional work carried out over the course of the ensuing spring term while the Martin Scholars produce masters-level research on that year's specific topics.
Prereq: *Departmental Permission*

2. Change the following course [**Effective**: Summer 2014]

IS 370 ~~Africa's Calling: The Culture of Ghana~~African Community, Culture, and Music (~~3 cr~~1-3 cr)
Focus on regional and/or national communities and cultures in Africa with an emphasis on musical traditions. Experience based including preparation in the US, field work in one or more African countries, and substantive evaluation after return.~~"Africa's Calling" is a three-week study~~

~~abroad course with an emphasis on cultural and environmental awareness in Ghana. It devotes attention to drumming/dance, the country's history and geographical terrain. Through temporary residency and fieldtrips to the Volta Region and the Cape Coast, students will examine Ghana's position in the global community. Recommended Preparation: Four Spring orientation sessions, passport, visa, vaccination, and medication.~~

Recommended Short Course Title: African Cmnty Culture Music

3. Change the curricular requirements of **International Studies** (B.A.) [**Effective**: Summer 2014]

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

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

One of the following groups of courses (4-6 cr):

Group A:
Econ 201 Principles of Macroeconomics (3 cr)
Econ 202 Principles of Microeconomics (3 cr)

or

Econ 272 Foundations of Economic Analysis (4 cr)

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

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

Six credits chosen from:
Anth 220 Peoples of the World (3 cr)
Engl 485 Global Literatures in English (3 cr)
EnvS 225 International Environmental Issues Seminar (3 cr)
Geog 200 World Regional Geography (3 cr)
IS 195 International Studies Freshman Seminar (3 cr)
JAMM 490 Global Media (3 cr)
~~Soc 323 Political Economy (3 cr)~~
Soc 350 Food, Culture, and Society (3 cr)

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

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

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

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

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

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

Issue Emphases in International Studies

Recommended courses for completion of requirement (special topic courses may be used when approved by the director).

A. International Relations
Geog 365 Political Geography (3 cr)
Hist 430 U.S. Diplomatic History (3 cr)
Hist 458 Military History (3 cr)
IS 320 Model United Nations (2 cr)
IS 321 UN and Related Agencies (1 cr)
IS 350 Sport and International Affairs (3 cr)
PolS 338 American Foreign Policy (3 cr)
PolS 440 International Organizations and International Law (3 cr)
PolS 449 World Politics and War (3 cr)
PolS 487 Political Violence and Revolution (3 cr)
Soc 335 Terrorism, Society and Justice (3 cr)

B. International Economics and Business
AgEc 481 Agricultural Markets in a Global Economy (3 cr)
Bus 381 International Finance (3 cr)
Bus 482 International Marketing (3 cr)

Econ 446	International Economics (3 cr)
Econ 447	International Development Economics (3 cr)
IS 323	International Monetary and Trade Organizations (3 cr)

C. Global Resources and Development

AgEc 481	Agricultural Markets in a Global Economy (3 cr)
Anth 462	Human Issues in International Development (3 cr)
CSS 493	International Land Preservation and Conservation Systems (3 cr)
FCS 411	Global Nutrition (3 cr)
FS 436	Principles of Sustainability (3 cr)
Geog 350	Geography of Development (3 cr)
Geog 360	Population Dynamics and Distribution (3 cr)
Geog 409	Rural Development (3 cr)
IS 322	International Environmental Organizations (3 cr)
IS 410	NGOs in the International Systems (3 cr)
PolS 480	Politics of Development (3 cr)
Soc 323	Political Economy (3 cr)
Soc 340	Social Change & Globalization (3 cr)
Soc 440	Post-Colonialism (3 cr)

Regional Emphases in International Studies

A. Latin America

FLEN 394	Latin American Literature in Translation (3 cr)
Hist 435	Latin America: The Colonial Era (3 cr)
Hist 438	Modern Mexico (3 cr)
Hist 439	Modern Latin America (3 cr)
Hist 440	Social Revolution in Latin America (3 cr)
Span 306	Culture and Institutions of Latin America (3 cr)
Span 402	Readings: Spanish American Literature (3 cr)
Span 413	Spanish American Short Fiction (3 cr)

B. Europe

Engl 342	Survey of British Literature (3 cr)
FLEN 307	The European Union (3 cr)
FLEN 308	European Immigration and Integration (3 cr)
FLEN 313	Modern French Literature in Translation (3 cr)
FLEN 324	German Literature in Translation (3 cr)
FLEN 393	Spanish Literature in Translation (3 cr)
Fren 304	Connecting French Language and Culture (4 cr)
Fren 407	French & Francophone Literatures (3 cr)
Fren 408	French and Francophone Culture and Institutions (3 cr)
Germ 306	Introduction to German Literature (3 cr)
Germ 420	Topics in German Culture and Literature - Themes (3 cr)
Hist 350	European Cultural History, 1600-1800 (3 cr)
Hist 366	Intellectual and Cultural History of Modern Europe (3 cr)
Hist 447	The Renaissance (3 cr)
Hist 451	Age of the French Revolution (3 cr)
Hist 452	19th Century Europe (3 cr)
Hist 455	Modern Europe (3 cr)
Hist 466	Eastern Europe Since 1774 (3 cr)
Hist 467	Russia to 1894 (3 cr)
Hist 468	Russia and Soviet Union Since 1894 (3 cr)
Hist 469	Modern France (3 cr)
PolS 381	Western European Politics (3 cr)
Span 305	Culture and Institutions of Spain (3 cr)
Span 401	Readings: Spanish Literature (3 cr)

C. Asia/Africa

FLEN 331	Japanese Anime (3 cr)
Hist 331	The Age of African Empires (3 cr)
Hist 457	History of the Middle East (3 cr)
Hist 481	America's Wars in Asia (3 cr)
Hist 482	Japan, 1600 to Present (3 cr)
Hist 484	Modern China, 1840s to Present (3 cr)
Hist 485	Chinese Social and Cultural History (3 cr)
IS 325	The Contemporary Muslim World (3 cr)
IS 326	Africa Today (3 cr)
Phil 307	Buddhism (3 cr)
PolS 420	Introduction to Asian Politics (3 cr)

Courses to total 120 credits for this degree

Other courses with an international component may be used as electives with permission of the school director.

4. Change the curricular requirements of **International Studies** (Minor) [**Effective**: Summer 2014]

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

1. **Basic Credit Requirements**. At least 21 credits selected from the list of courses approved by the Martin School of International Studies, consisting of the following:
   - a minimum of 6 credits chosen from Anth 220, EnvS 225, Engl 485, Geog 200, IS 195, IS 310,JAMM 490, PolS 205*, PolS 237*, or Soc 350
   - a minimum of 6 credits from one of the following issue emphases: international relations, international economics and business, global resources and development (see courses above)
   - a minimum of 6 credits from one of the following regional emphases: Latin America, Europe, Asia (see courses above)
2. **Limitations**. No course to be counted toward the minor may be taken by directed study without prior approval by the ISC.

Courses to total 21 credits for this minor

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

Law

1. Add the following course [**Effective**: Summer 2014]

Law 852 Natural Resource and Environmental Law Field Course (2 cr)
Summer field course exploring the implementation of natural resource and environmental law on the ground in Idaho, focusing on the effects of state and federal resource management and protection statutes on public and private landscapes. Accelerated course.
Prereq: *Permission*

Recommended Short Course Title: NREL Field Course

2. Change the following course [**Effective**: Summer 2014]

Law 962 Professional Responsibility (~~2~~ 3 cr)
Status and function of the legal profession, responsibility to clients, the profession, the public, and the administration of justice. This course must be taken no later than the summer following the second year of law studies.

3. Change the curricular requirements of **Law** (J.D.) [**Effective**: Summer 2014]

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

Law 805	Civil Procedure and Introduction to Law (3 cr)
Law 806	Civil 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 820	Statutory Reading and Interpretation (3 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 Clinic (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 (1-2 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)

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

Students may choose to complete one of the following four emphases. To complete a J.D. with any of the listed emphases a student must complete the above general J.D. requirements and the requirements of one of the emphases.

A. Business Law & Entrepreneurship Emphasis

Students pursuing this emphasis must earn a minimum grade of 'C' in each course taken to satisfy Business Law & Entrepreneurship emphasis requirements, plus a cumulative 2.50 grade point average over all courses used to satisfy Business Law & Entrepreneurship emphasis requirements.

Law 919 Business Associations (4 cr)
Law 925 Property Security (3 cr)
Law 930 Taxation (3-4 cr)

One class chosen from the following:
Law 912 Civil Mediation (2 cr)
Law 917 Negotiation and Appropriate Dispute Resolution (3 cr)
Law 932 Negotiable Instruments, Bank Collections and Deposits, and Other Payment Systems (3 cr)
Law 976 Semester in Practice (1-12 cr, max 12)

One class chosen from the following:
Law 981 Critical Legal Studies Journal (1-4 cr, max 4)
Law 982 Law Review (1-4 cr, max 4)
Law 983 Directed Study (1-2 cr, max 4)

One of the following groups of courses:

Group A.
Twelve credits chosen from the following (12 cr):
Law 903 Introduction to Intellectual Property (3 cr)
Law 907 Administrative Law (3 cr)
Law 908 Workplace Law (4 cr)
Law 910 Antitrust (3 cr)
Law 920 Securities Regulation (3 cr)
Law 921 Accounting for Law Students (2 cr)
Law 922 Trademarks and Trade Dress (2 cr)
Law 924 Sales (3 cr)
Law 927 Business Entities Taxation (4 cr)
Law 984 Real Estate Transactions (2-3 cr)

Group B
Law 923 Negotiable Instruments, Bank Collections and Deposits, and Other Payment Systems (3 cr)
Law 924 Sales (3 cr)

Six credits chosen from the following (6 cr):
Law 907 Administrative Law (3 cr)
Law 911 Principles of Suretyship (2 cr)
Law 926 Bankruptcy (3 cr)
Law 927 Business Entities Taxation (4 cr)
Law 984 Real Estate Transactions (2-3 cr)
Law 990 Consumer Law (3 cr)

Group C
Law 903 Introduction to Intellectual Property (3 cr)

Two classes chosen from the following:
Law 922 Trademarks and Trade Dress (2 cr)
Law 931 Patents (2 cr)
Law 980 Copyrights (2-3 cr)

Five credits chosen from the following (5 cr):
Law 907 Administrative Law (3 cr)
Law 910 Antitrust (3 cr)
Law 918 Cyberlaw (2-3 cr)
Law 922 Trademarks and Trade Dress (2 cr)
Law 931 Patents (2 cr)
Law 980 Copyrights (2-3 cr)
Law 989 Mass Media Law (2 cr)
Courses to total 90 credits for this degree

B. Litigation & Alternative Dispute Resolution Emphasis

A minimum of one doctrinal class in Law 904, Law 907, Law 930, Law 952, Law 953, Law 960, or Law 985 is required.

A minimum of one practice class in Law 914, Law 955, Law 966, Law 967, Law 970, Law 971, ~~Law 973,~~ Law 974, Law 975, Law 976, Law 977, Law 993, Law 995, Law 996, Law 997, or Law 998 is required.

Students pursuing this emphasis must earn a minimum grade of 'C' in each course taken to satisfy Litigation & Alternative Dispute Resolution emphasis requirements, plus a cumulative 2.50 grade point average over all courses used to satisfy Litigation & Alternative Dispute Resolution emphasis requirements.

Law 917 Negotiation and Appropriate Dispute Resolution (3 cr)
Law 950 Evidence (3 cr)

One class chosen from the following:
Law 954 Trial Skills (3 cr)
Law 958 Trial Advocacy (2 cr)

One class chosen from the following:
Law 912 Civil Mediation (2 cr)
Law 913 Family Mediation (2 cr)

One class chosen from the following:
Law 956 Moot Court (1-2 cr)
Law 957 Mock Trial (2 cr)
Law 974 Legal Aid Clinic (1-3 cr, max 6)

Ten credits from the following (10 cr):
Law 904 Federal Courts (3 cr)
Law 907 Administrative Law (3 cr)
Law 914 Dispute Resolution (1 cr, max 4)
Law 930 Taxation (3-4 cr)
Law 952 Remedies (3 cr)
Law 953 Criminal Procedure (3 cr)
Law 955 Appellate Advocacy Program (2 cr)
Law 960 Conflict of Laws (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 973 Non Classroom Credit Public Service Externship (1-10 cr, max 10)~~
Law 974 Legal Aid Clinic (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 985 Immigration Law and Policy (3 cr)
Law 993 Appellate 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)

Courses to total 90 credits for this degree

C. Native American Law Emphasis

Students pursuing this emphasis must earn a minimum grade of 'C' in each course taken to satisfy Native American Law emphasis requirements, plus a cumulative 2.50 grade point average over all courses used to satisfy Native American Law emphasis requirements.

Law 979 Native American Natural Resource Law (3 cr)

One class chosen from the following:
Law 928 Tribal Nation Economics and Law (3 cr)
Law 949 Native American 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:

Economics Development Track

Six credits chosen from the following (6 cr):
Law 903 Introduction to Intellectual Property (3 cr)
Law 907 Administrative Law (3 cr)
Law 908 Workplace Law (4 cr)
Law 910 Antitrust (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 (2-3 cr)

Family Law Track

Six credits chosen from the following (6 cr):
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

Six credits chosen from the following (6 cr):
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 State and Local Government 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 Resource Management Track

Six credits chosen from the following (6 cr):
Law 906 Natural Resources Law Seminar (3 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

D. Natural Resources and Environmental Law Emphasis

Students pursuing this emphasis must earn a minimum grade of 'C' in each course taken to satisfy Natural Resources and Environmental Law emphasis requirements, plus a cumulative 2.50 grade point average over all courses used to satisfy Natural Resources and Environmental Law emphasis requirements.

One class chosen from the following:
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 971 Lawyering Process Seminar (2 cr)
Law 974 Legal Aid Clinic (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)

Twelve credits chosen from the following (12 cr):
Law 906 Natural Resources Law Seminar (3 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 949	Native American Law (3 cr)
Law 951	Environmental Policy (3 cr)
Law 969	Water Law II (2 cr)
WR 506	Interdisciplinary Methods in Water Resources (3 cr)

Courses to total 90 credits for this degree

Leadership and Counseling

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

AOLL 507 Future of Education and Work ~~for Sustainability~~ (3 cr)
Study and application of secondary and postsecondary curriculum and instruction ~~focusing on sustainability~~ as it relates to technical education, workforce and organizational development, "green" technologies and Science, Technology, Engineering and Mathematics (STEM).

AOLL 570 Introduction to Research in ~~Workforce Education~~Adult/Organizational Learning and Leadership (3 cr)
The first emphasis of this course is to help workforce education students find, interpret and evaluate scholarly research. The second emphasis is to prepare students to conceptualize, design, and conduct various forms of action research.

Proposed Short Course Title: Intro to Research in AOLL

AOLL 581 Theory ~~&~~ Practices & Challenges of ~~Sustainable~~ Leadership (3 cr)
Analysis and study of leadership of the human resource in organizations; theories, styles, and methods of ~~sustainable~~ leadership developed from past leaders blended with current models of leadership.

Proposed Short Course Title: ????

~~AOLL~~ ED 628 Program Evaluation (3 cr)
Schools, organizations, and community agencies are being increasingly held accountable for their respective programs. This course addresses how action research can be a powerful tool for empirically evaluating all aspects of a given program. ~~Recommended Preparation: foundations and/or introduction to research.~~
Prereq: *~~Enrollment to a doctoral program~~ED 573*

~~AOLL~~ ED 668 Writing for Publication (3 cr)
Development of knowledge, skills, and potential of researchers and other writers desiring to prepare and publish manuscripts in education or other professional and trade journals; technical and theoretical aspects of writing for publication and the process of manuscript preparation, submission, and editing.
Prereq: *Enrollment in a doctoral program in Education*

Mathematics

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

Math 415 Cryptography (3 cr)
Congruences, ~~Modular~~ modular ~~Arithmetic~~arithmetic, ~~Private~~private-key cryptosystems, ~~Public~~public-key cryptosystems, and ~~Applications~~applications. The role of modern mathematics in information age society.
Prereq: *Math 330*

Math 451 Probability Theory (3 cr)
Same as Stat 451. Random variables, expectation, special distributions (normal, binomial, exponential, etc.), moment generating functions, law of large numbers, central limit theorem. Cooperative: open to WSU degree-seeking students. (Fall only)
Prereq or Coreq: *Math 275~~, Graduate standing,~~ or Permission*

Math 571 Functional Analysis I (3 cr)
Linear topological spaces and linear operators. (Fall, Alt/yrs)
Prereq: *Math ~~536~~ 535*

Math 572 Functional Analysis II (3 cr)
Linear topological spaces and linear operators. (Spring, Alt/yrs)
Prereq: *Math ~~536~~571*

Math 576 Graph Theory II (3 cr)
Basic concepts and theorems; topics include trees and connectivity, eulerian and hamiltonian graphs, graph colorings, matchings, graph decomposition, and extremal graph theory. (Spring, Alt/yrs)
Prereq: *Instructor Permission*

2. Change the curricular requirements of **Mathematics** (B.S.) [**Effective**: Summer 2014]

E. Applied - Actuarial Science and Finance Option
This curriculum provides the background to become an actuary and work in the insurance industry, or to work in finance.

Math courses:
Math 310 Ordinary Differential Equations (3 cr)
Math 451 Probability Theory (3 cr)
Math 452 Mathematical Statistics (3 cr)
Three additional courses chosen from Math courses numbered above 400 or Stat 422 (9 cr)

Supporting courses:
Acct 201 Introduction to Financial Accounting (3 cr)
Acct 202 Introduction to Managerial Accounting (3 cr)
~~Econ 201 Principles of Macroeconomics (3 cr)~~
~~Econ 202 Principles of Microeconomics (3 cr)~~
Bus 339 Spreadsheet Modeling (1-3 cr)

One of the following choices (4-6 cr):

Econ 201 Principles of Macroeconomics (3 cr)
Econ 202 Principles of Microeconomics (3 cr)

OR

Econ 272 Foundations of Econ Analysis (4 cr)

One of the following (3 cr):
Bus 301 Financial Management (3 cr)*
Bus 342 Product and Process Planning (3 cr)*

One of the following (3-4 cr):
CS 112 Introduction to Problem Solving and Programming (3 cr)
CS 120 Computer Science I (4 cr)

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

One of the following (3 cr):
Stat 426 SAS Programming (3 cr)
Stat 431 Statistical Analysis (3 cr)

At least three courses selected from the following (7-9 cr):
Bus 302 Intermediate Financial Management (3 cr)
Bus 381 International Finance (3 cr)
Bus 408 Security Analysis (3 cr)
Bus 463 Portfolio Management (3 cr)
Bus 464 Derivatives and Risk Management (3 cr)
Bus 465 Introduction to Market Trading (3 cr)
Bus 469 Risk and Insurance (3 cr)
Econ 351 Intermediate Macroeconomic Analysis (3 cr)
Econ 352 Intermediate Microeconomic Analysis (3 cr)
Math 455 Applied Actuarial Science (1 cr)

One c~~ourse selected from~~of the following (3 cr):
Stat 433 Econometrics (3 cr)
Stat 550 Regression (3 cr)
Courses to total 120 credits for this degree

Modern Languages

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

FLEN 450 (s) Topics in Classical Civilization (3 cr, max 9)
See Hist 450.

2. Change the following course [**Effective**: Summer 2014]

FLEN 243 English Word Origins (~~2~~ 3 cr)
Fundamental Latin and Greek roots of words used in the humanities, social and natural science; emphasis on terminology of fields in which students are interested; introduction to the history of the English Language and its relationship with other languages; knowledge of Greek or Latin is not required.

Movement Sciences

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

MvSc 210 Meaning of Movement and Injury Prevention (2 cr)
Explores the meaning of movement and injury prevention through a phenomenological approach. Develops skills necessary to find meaning in movement across the lifespan. 1-2 lec cr and 1 lab cr.
Prereq: *Major in Athletic Training, Dance, Exercise Science and Health, Physical Education Teacher Education or Recreation*
Coreq: *MvSc 201*

MvSc 350 Practicum in Physical Activity Behavior Change (1 cr)
Students will apply the concepts learned in MvSc 201 and MvSc 210 to effect change in the personal behavior related to physical activity. 1 recitation and 2 outside hours per week.
Prereq: *MvSc 201, MvSc 210 and major in Athletic Training, Dance, Exercise Science and Health, Physical Education Teacher Education or Recreation*

MvSc 351 Social and Environmental Aspects of Physical Activity (1 cr)
This course will (a) examine the major social and environmental determinants of physical-activity behavior; and (b) explore intervention strategies designed to create social environments that facilitate and enhance physical activity among groups and communities. Emphasis will be placed on using theory and research to promote physical activity in various settings.
Prereq: *MvSc 350 and major in Athletic Training, Dance, Exercise Science and Health, Physical Education Teacher Education, or Recreation.*
Coreq: *MvSc 429*

2. Add the following courses [**Effective**: Summer 2014]

PEP J463/J563 Physical Activity, Health and Metabolic Disease (3 cr)
An introduction to the history of physical activity and health, adaptations to training, and benefits of physical activity as related to specific metabolic disease states and conditions (e.g., insulin resistance). Students will be required to read and discuss pertinent literature in physical activity and health. Additional projects/assignments reqd for grad cr.
Prereq: *PEP 418*

Proposed Short Course Title: Phys Activity Health & Disease

3. Change the following courses [**Effective**: Summer 2014]

AT 620 ~~Clinical~~ Research Methods in Athletic Training I (3 cr)
This course introduces common research performed in Athletic Training. Development of in-depth understanding in areas and types of research underlying quantitative research design will be explored. Introduction to critiquing literature for the purpose of developing a theoretical framework will be included.
Prereq: *Permission*

Proposed Short Course Title: Research Methods in AT I

AT 621 ~~Clinical~~ Research Methods in Athletic Training II (3 cr)
This course introduces Statistical methods employed in clinical research. Topics including statistical terminology, measures of central tendency, Hypothesis testing and common parametric tests will be the content for the course.
Prereq: *Permission*

Proposed Short Course Title: Research Methods in AT II

AT 622 ~~Clinical Research in Athletic Training III~~Advanced Action Research in Athletic Training (3 cr)
This course is a continuation of clinical research in athletic training and advances the students understanding of research methods in action research.~~This course applies statistical methods to common measures in clinical research and introduces survey research and other qualitative measures.~~
Prereq: *~~Permission~~AT 620 and AT 621*

Proposed Short Course Title: Advanced Action Research in AT

AT 623 ~~Clinical Research in Athletic Training IV~~Qualitative Methods and Research Design in Athletic Training (3 cr)
This course introduces common qualitative methodologies and survey research design in AT.~~This course sets the foundation for action research in clinical practice. Development of a research question and justification with literature review will be employed. Purpose and methods of institutional review will be evaluated. Further discussion will elucidate the importance of becoming a scholarly practitioner.~~
Prereq: *~~Permission~~AT 620, AT 621, and AT 622*

Proposed Short Course Title: Qual Methods in AT

AT 624 ~~Clinical Research in Athletic Training V~~Quantitative Methods and Statistics in Athletic Training (3 cr)
This course is a continuation of clinical research in athletic training and advances the students understanding of quantitative research methods and statistics utilized in health professions.~~This continues the process of action research in clinical practice. Development of methods to test a chosen hypothesis will be created. Exploration of statistical methods to test the clinician's hypothesis will be compared. Data collection will begin.~~
Prereq: *~~Permission~~AT 620, AT 621, AT 622, and AT 623*

Proposed Short Course Title: Quant Methods & Stats in AT

AT 625 ~~Clinical Research in Athletic Training VI~~Dissertation of Clinical Practice Improvement: Analysis and Dissemination of Action Research Project (3 cr)
This continues the process of action research in clinical practice. Data analysis of the student's research will be performed. Introduction to manuscript writing, dissemination of knowledge in written, oral and poster presentation and a focus on journal review will be the context for this course. Student will successfully present their findings and prepare manuscript in journal ready format.
Prereq: *~~Permission~~AT 620, AT 621, AT 622, AT 623, and AT 624*

Proposed Short Course Title: Dissertation of CPI

MvSc 445 Internship ~~Practicum~~ Preparation and Professional Development (1 cr)
This course explores the different factors that go into finding, obtaining, and getting the most out of an internship. Emphasis is placed on such skills related to understanding the student's chosen field/career path, professionalism, communication, and dealing with adversity in the work place. ~~In addition, emphasis will be placed on student understanding of what is expected during the internship from an academic perspective.~~
Prereq: *~~PEP 100~~MvSc 201*

Proposed Short Course Title: Int Prep & Prof Development

PEP 350 Elementary Health and Physical Education (3 cr)
Specific methods, research, curricula, and media in teaching elementary health and physical education. Three lecture/lab hours per week and 15 hours of practicum work in the schools and community.
Prereq *or* ***Coreq:*** *EDCI 327, EDCI 328, and EDCI 329*

PEP 418 Physiology of Exercise (3 cr)
Effects of physical activity on the circulatory, respiratory, and other systems. Two lec and one 2-hr lab a wk.
Prereq: *MvSc ~~350~~201, Biol 120, and Biol 121; or Permission*

PEP 424 Inclusive Physical Education and Recreation (3 cr)
Same as Rec 424. To provide an overview of movement and physical activities in physical education and recreational settings for individuals with disabilities. Emphasis will be on history, etiology, characteristics, services, resources, professional competencies, and instructional strategies. Practical experience (16 hrs in the community) is required to enhance instructional abilities to adapt and create an inclusive physical education and recreational setting for all participants.
Prereq: *~~Acceptance into the teacher education or PEP 243~~Senior standing or Permission*

PEP 455 Design & Analysis of Research in ~~HPERD~~ Movement Sciences (3 cr)
Same as H&S 455 and Rec 455. This course is designed to survey the basic types of research methods often found in ~~health, physical education, sport~~ exercise science and health;~~,~~ and recreation. A variety of research designs and computerized statistical analyses are studied to help students understand the systematic nature of problem solving. Various research problems as they relate to ~~health, physical education,~~exercise science and health; and recreation~~, and human performance~~ are discussed for the purpose of identifying the broad and diverse nature of research in the movement, leisure, and health professions. (Spring only)
Prereq: *Junior or Senior standing*

Proposed Short Course Title: Design & Analysis in MvSc

PEP 493 Fitness Assessment and Prescription (3 cr)
Development of skills in exercise testing, data interpretation, and prescription for health related fitness. Two lec and 2 hrs of lab per wk. (Spring only)
Prereq: *Senior Standing and PEP 418; or Permission*

4. the curricular requirements of **All Movement Science Majors** (All Majors) [**Effective**: Summer 2014]

Courses required in all majors in the Department of Movement Sciences:

~~CTE 111~~	~~Computer Skills or approved elective (3 cr)~~
MvSc 201	Physical Activity, Wellness & Behavior Change for Healthy Active Lifestyles (3 cr)
MvSc 429	Leadership, Pedagogy and Program Planning for Healthy Active Lifestyles (3 cr)

MvSc 486 Marketing, Implementation and Evaluation for Healthy, Active Lifestyles (1 cr)

5. Change the curricular requirements of **Exercise Science and Health** (B.S.E.S.H.) [**Effective**: Summer 2014]

Exercise Science & Health majors must maintain a UI cumulative GPA of 2.30 or better in order to enroll in 300-level or higher Movement Science sequence coursework. In addition, Exercise Science & Health majors must have a UI cumulative GPA of 2.30 or greater to graduate.

Required course work includes the university requirements (see regulation J-3), the Department of Movement Sciences core, and the following.

Biol 120	Human Anatomy (4 cr)
Biol 121	Human Physiology (4 cr)
Comm 101	Fundamentals of Public Speaking (2 cr)
FCS 205	Concepts in Human Nutrition (3 cr)
H&S 245	Introduction to Athletic Injuries (3 cr)
H&S 451	Psychosocial Determinants of Health (3 cr)
PEP 100	Introduction to Exercise Science & Health (1 cr)
PEP 300	Applied Human Anatomy and Biomechanics (3 cr)
PEP 418	Physiology of Exercise (3 cr)
PEP 455	Design & Analysis of Research in HPERD (3 cr)
PEP 493	Fitness Assessment and Prescription (3 cr)

One of the following tracks:

…

Music

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

MusT 381 Elementary School Music Methods for Nonmajors (3 cr)
Curriculum, organization, and instructional materials for teaching general classroom music. This course is intended for elementary classroom teachers, nonmusic majors. One out-of-class field teaching experience may be scheduled.
Prereq: *Permission*

MusT 467 Band Literature and Rehearsal Techniques (1 cr)
Music, materials and rehearsal techniques for bands in public schools. (Fall only)
Prereq: *MusT 383*

MusT 485 Choral Ensemble Rehearsal Techniques (1 cr, max arr)
Various techniques of rehearsing singers in an ensemble. (Fall, Alt/evenyrs)
Coreq: *MusT 385*

MusT 486 Orchestral Literature and Rehearsal Techniques (1 cr, max arr)
Music, materials and rehearsal techniques for string ensembles in public schools. (Spring only)
Prereq or Coreq: *MusT 251, MusT 383, and MusA 387*
Coreq: *MusT 386 or Permission*

Recommended Equivalent Course: MusT 256

2. Add the following courses [**Effective**: Summer 2014]

MusT 256 String Techniques and Orchestral Literature (1 cr)
Group Instruction. Continued study of problems of playing and teaching stringed instruments, including music literature and materials, elementary and secondary schools.
Prereq: *MusT 251*

Recommended Short Course Title: String Tech/Orch Lit

MusX 301 Technology for Musicians (1 cr)
Current applicable music technologies and software, as well as lighting, acoustics, recording, sound reinforcement and troubleshooting associated with technology.
Prereq: *Music major or Permission*

3. Change the following courses [**Effective**: Summer 2014]

MusA J455/J555 Keyboard Performance Practices (1 cr)
Study of interpretation of keyboard music from Baroque through 20th century; learn to interpret scores, teach, and perform keyboard music stylistically; acquire knowledge of major performing artists and recordings from each period of music. Registration for graduate credit requires

additional research into original treatises from each period of music, resulting in the editing of a piece of music from each of these periods. (Fall, Alt/~~odd~~ even yrs).

MusC J437/J537 Music in Film (3 cr)
A seminar in the processes, techniques and evaluation of music as used in film. Materials will change each time the course is offered but the major focus will be main-stream motion pictures. Students enrolled for graduate credit will be expected to complete deeper analysis of selected film scores, and to make a presentation in class. (Fall, Alt/~~even~~ odd yrs)
Prereq: *~~MusC 242 or Permission~~*

MusH 330 History of Music Theatre (3 cr)
A study of the development of American musical theatre. Students will analyze the forms and styles of representative works. ~~May not be counted as a required music history elective for music majors.~~ (Spring,~~.~~ Alt/even yrs)

MusH 452 Solo Vocal Repertoire (2 cr)
Historical and analytical survey of solo vocal literature. (Fall, Alt/even yrs)
Prereq: *~~Junior standing and~~ Permission*

MusH J454/J554 Keyboard Repertoire I (2 cr)
Content will cover the development of keyboard literature from J.S. Bach through Beethoven. Additional projects/assignments required for graduate credit. (Fall, Alt/odd yrs)
Prereq: *~~Junior standing and~~ Permission*

MusH J455/J555 Keyboard Repertoire II (2 cr)
Content will cover the development of keyboard literature from Schubert to present. Additional projects/assignments required for graduate credit. (Spring, Alt/even yrs)
Prereq: *~~Junior standing and~~ Permission*

MusH J456/J556 Choral Literature I (2 cr)
Historical and analytical survey of choral literature from the early Renaissance through Classical era. Additional projects/assignments required for graduate credit.
~~Prereq~~ *~~for MusH 456: Junior Standing~~*

MusT 382 ~~Elementary School~~ General Music Methods ~~for Music Majors~~ (3 cr)
Curriculum design,~~ organization,~~ instructional materials, and methodologies (including Orff, Kodaly and Dalcroze approaches) ~~strategies~~ for teaching general music in grades K-8~~elementary general music. Must be taken before enrolling in MusT 432~~. Practicum ~~Approximately~~ approximately ~~three~~ five ~~field~~ field-teaching experiences must be scheduled in general music classrooms~~the elementary schools~~ outside of class time. (Spring only)
Prereq*: EDCI 201 and admission to the teacher education program; or Permission*
Prereq *or* ***Coreq****: MusT 383*

MusT 383 Principles of Music Teaching (3 cr)
Philosophy, principles, curriculum, and organization of the school music program; world music pedagogy; teaching cultural diverse learners. ~~Must be taken before enrolling in MusT 432.~~ (Fall only)
Prereq: *EDCI 201, MusC 142, and admission to teacher education program; or Permission*

MusT 385 Choral Music in the Secondary School (~~2~~ 3 cr)
Methods, instructional materials, rehearsal techniques and techniques for teaching choral music in grades 7-12. Includes practicum hours~~Two lec and one lab a wk~~. ~~Must be taken before enrolling in MusT 432.~~ (Fall, Alt/even yrs)
Prereq: *~~2~~ 1 cr in MusA 116/MusA 316 ~~or 317~~ or 1 cr in MusA 117/MusA 317~~, and MusC 142~~*
Prereq or Coreq: ***1 additional cr*** *in MusA 116/MusA 316 or 1 cr in MusA 117/MusA 317; and MusT 383; and~~,~~ MusA 387~~,~~; or Permission*

MusT 386 Instrumental Music in the Secondary School (~~2~~ 3 cr)
Methods, instructional materials, rehearsal techniques and techniques for teaching instrumental music in grades 7-12. Includes practicum hours.~~Two lec and one lab a wk. Must be taken before enrolling in MusT 432.~~ (Spring only)
Prereq: *MusC 142*
Prereq or Coreq: *MusT 383, MusA 387, or Permission*

MusT 432 (s) Practicum: Music Teaching (~~7 or~~ 14 cr)
Supervised music teaching in public schools. Graded P/F.
Prereq: *Successful completion of all required course work for the Music Education: Vocal, Instrumental, or Vocal-Instrumental major, cumulative GPA of 2.75, acceptance to the College of Education and permission of the School of Music.* ~~*The keyboard proficiency exam must be completed during the regularly scheduled exam by the tenth class day of the semester prior to the semester of student teaching.*~~
Coreq: *MusT 445*

MusT J435/J535 (s) Pedagogy and Materials (2 cr, max arr)
Methods and materials of performance techniques for each performance field. Additional projects/assignments required for graduate credit. (Vocal Pedagogy – Spring, Alt/odd yrs)

Prereq: *~~Junior standing and~~ Permission*

MusT J436/J536 Pedagogy and Materials: Keyboard I (2 cr)
Objectives and goals of teaching the beginning piano student in regards to business aspects, literature and techniques. Additional projects/assignments required for graduate credit. (Fall, Alt/even yrs)
Prereq: *~~Junior standing and~~ Permission*

MusT J437/J537 Pedagogy and Materials: Keyboard II (2 cr)
Objectives and goals of teaching the intermediate and early advanced piano student in regards to literature and techniques. Additional projects/assignments required for graduate credit. (Spring, Alt/odd yrs)
Prereq: *~~Junior standing and~~ Permission*

MusT 445 Proseminar in Music Teaching (~~2~~ 1 cr)
Coreq: *MusT 432.*

MusT 465 Jazz Band Rehearsal Techniques (~~1~~ 2 cr)
Methods, materials, and literature for jazz bands in public schools. (Spring only~~Fall, alt/odd yrs~~)
Prereq or Coreq: MusT 383
Coreq: *MusA 323 or MusA 365 (Jazz Combo)*

MusT 466 Marching Band Techniques (1 cr)
Techniques of drilling; materials for field and street maneuvers; preparation of shows. (Fall only~~, alt/odd yrs~~)
Prereq: *MusC ~~242~~ 142*
Prereq or Coreq: MusA 119/ MusA 319 and MusT 383; or Permission

4. Change the curricular requirements of **All Music Majors** (B.A., B.F.A., B.Mus.. B.S.) [**Effective**: Summer 2014]

Minimum Grade Requirement. A music student, either major or minor, must achieve a minimum grade of C in each music course, either resident or transfer, which is applicable to a degree program in music before the student will be eligible for graduation. BFA musical theatre majors must achieve a minimum grade of C in each music, theatre and dance course which is applicable to the musical theatre major before the student will be eligible for graduation.

~~**MusH 101 and 111.** Music majors may NOT use MusH 111 to satisfy UI general education curriculum requirements. MusH 111 is part of the professional course work- 12 credits in music history- required for the major.~~

~~If a music major takes MusH 101, he or she must have 14 credits of courses other than MusH 101 in order to satisfy the humanities/social sciences general education requirement.~~

~~If a transfer student has taken a 100-level survey of music course prior to enrollment as a music major in the School of Music, the student may use this course in lieu of MusH 111. If world music was not addressed in the transfer course, students will have to meet a level of competency in world music.~~

Ensemble Participation. An undergraduate music major must: (1) earn a minimum of eight credits in ensemble participation to be eligible for graduation and (2) enroll in an ensemble during each semester of full-time study. Various requirements are contained in the specific curricula. For curricular purposes, "major ensemble" is defined to mean MusA 116/316 Concert Choir - Vandaleers, 117/317 University Chorus, 119/319 Marching Band, 121/321 Concert Band, 122/322 Orchestra, or 320 Wind Ensemble. Other ensembles (listed in some curricula under "Chamber Music") consist of MusA 118/318 Jazz Choir, 315 Accompanying, 323 Jazz Ensemble, 365 Chamber Ensemble, and 380 Opera/Musical Theatre Studio. For students in the B.A. or B.S. in Applied Music or the B.Mus. in Music: Business, the following minimum requirements apply depending on the primary applied area of the student:

Orchestral Instrument: six credits in instrumental major ensemble and two additional credits in any instrumental ensemble.

Voice: six credits in vocal major ensemble and two additional credits in any vocal ensemble.

Keyboard: two credits in any major ensemble, four credits in MusA 315 Accompanying, and two credits in MusA 365 Chamber Ensemble.

Guitar: four credits in any major ensemble and four credits in MusA 365-02 Chamber Ensemble: Guitar Ensemble.

Transfer students must have a minimum of four semesters of ensemble participation at UI, at least two of which must be in a major ensemble.

Convocation-Recital Attendance. Because listening experiences constitute an area of major importance in the study of music, all music majors (excluding BFA musical theatre majors) and music minors are required to register for MusX 140, Convocation; music majors must attend 10 recitals per semester for seven semesters and music minors must attend 10 recitals per semester for two semesters. Students must attend a full concert or program in order for it to be counted toward convocation-recital requirements. Recital credit will not be granted for those performances in which a student participates. In addition, music majors must attend the weekly convocation series (studio class, area recital, and convocation). Transfer students are expected to enroll in MusX 140 during their first registration, and to receive a passing grade in a specific number of semesters (to be determined when the student's program is set up). Transfer students must have a minimum of two semesters of convocation at UI.

Upper-Division Standing (UDS). For a B.Mus., B.A. and B.S. music major to enroll in MusA 324 or MusA 334, the student must have been granted upper-division standing (UDS). ~~Except for double majors where one major is not in music, s~~Students applying for UDS must:

1. have completed with a "C" or better, or be currently enrolled in, MusC 242 Music Theory IV, MusH 111 Introduction to Music Literature and the courses listed in one of the following scenarios: (A). MusA 246 Class Piano and MusC 240 Aural Skills IV; (B). MusA 146 Class Piano and MusC 240 Aural Skills IV; or (C). MusA 246 Class Piano and MusC 140 Aural Skills II

2. have passed a special jury examination demonstrating the of mastery of the fundamentals of the student's major area of performance/composition and the potential to continue improving in a manner that will lead to the successful completion of performance/composition requirements of the degree and major emphasis (the jury examination requirement must be met, regardless of double majors, before a student can enroll in MusA 324 or MusA 334).

Transfer students with at least two years of college study as a music major and double majors with one major outside of music may apply for UDS if they have at least one year of music theory, aural skills and piano, one semester of music history, four semesters of studio instruction at the music major level and the approval of the studio instructor or area coordinator in the case of voice and keyboard. An Upper Division Standing jury examination presented after the third week will not count towards the semester in which it was presented. Students who fail to pass the UDS requirements within three tries are ineligible to continue to pursue a music major.

In order to register for upper-division music education courses (not including instrumental techniques courses), an undergraduate music education major must: (1) make application to upper-division music education courses by completing and submitting an application form (available in the music office) to the chair of the Music Education Committee–this should be done in the semester in which the student applies for upper division standing (UDS). If the student does not pass UDS, he/she must resubmit a music education application form; (2) successfully complete EDCI 201 and the necessary core courses to meet the requirements of the application to Teacher Education in the College of Education; (3) obtain a "C" or better in music courses and at least a 2.5 overall GPA; and (4) pass the studio instruction upper-division standing jury.

Application for Candidacy in the B.F.A. Musical Theatre Program. The Bachelor of Fine Arts degree in Musical Theatre is a rigorous training program for students wishing to pursue a career in musical theatre. In order for a B.F.A. candidate to enroll in MusA 324 Studio Instruction and The 425 Acting Studio, the student must be admitted to the B.F.A. Musical Theatre program. Students applying for candidacy in the B.F.A. Musical Theatre program must: (1) have completed MusC141 Music Theory, MusC 139 Aural Skills, one semester of MusA 115 and two semesters of MusA 124 Studio Instruction, MusA 145 Class Piano and The 105 Basics of Performance, with a grade of "C" or better in all completed courses; (2) have completed or be currently enrolled in MusC 142 Music Theory, MusC 140 Aural Skills, MusH 101 Survey of Music or MusH 111 Introduction to Music Literature, a third semester of MusA 124 Studio Instruction, MusA 146 Class Piano, The 101 Intro to the Theatre, The 106 Basics of Performance and The 305 Intermediate Acting, with a grade of "C" or better in all completed courses; (3) have a minimum 3.0 overall gpa or better;(4) submit a portfolio; (5) have passed the B.F.A. audition demonstrating the mastery of the fundamentals of voice and acting and the potential to continue improving in a manner that will lead to the successful completion of the requirements of the degree and (6) have faculty approval. Transfer students with at least two years of college study as a musical theatre major, may apply for candidacy in the B.F.A. Musical Theatre program if they have at least one year of music theory, aural skills and piano, one semester of music history, four semesters of studio instruction at the music major level, and The 101 Intro to the Theatre, The 105/106 Basics of Performance and The 305 Intermediate Acting. Students who fail to pass the BFA audition within three tries are ineligible to continue to pursue a Musical Theatre major.

Diagnostic Exam in Theory and Aural Skills. The goal of this exam is to advise transfer students regarding deficiencies in their prior theory training; this exam is not available to freshmen. A study guide is available on the web. The exam is given during the first week of classes each semester, as needed. . The exam will not be used for "advanced placement" or "credit by examination," as the regulations regarding these procedures are covered in regulation D-4. Written evaluation of each student's achievement will be placed in his or her advising file, and the student will be counseled appropriately.

Transfer Credits. Transfer credits will be accepted at the upper-division level only if taken at the upper-division level from the original institution (i.e., a 100- or 200-level course will not transfer as a 300- or 400-level course requirement). The applicability of these credits to the student's program of study is determined by the Lionel Hampton School of Music. If a transfer student has taken a 100-level survey of music course, the student may use this course in lieu of MusH 111, if he/she can demonstrate knowledge of world music. In order for a student to meet world music competency, he/she may:

1. participate in an ensemble such as MusA 365 World Beat Ensemble
2. take MusH 420 Studies in World Music

5. Change the curricular requirements of **Music Education: Vocal** (B.Mus.) [**Effective**: Summer 2013]

NOTE: For registration in upper-division courses in education, students must have been admitted to the teacher education program and maintain a GPA of 2.75. For admission criteria, refer to "Admission to the Teacher Education Program" in the College of Education section. Required course work includes the university requirements (see regulation J-3) and the specific requirements in one of the two sections below:

A. Voice

Comm 101	Fundamentals of Public Speaking (2 cr)
EDCI 201	Contexts of Education (2 cr)
EDCI 301	Learning, Development, and Assessment (3 cr)
EDCI 453	Phonics, Phonological Awareness, Fluency, and Assessment (1 cr)
EDCI 463	Literacy Methods for Content Learning (3 cr)
EDSP 300	Educating for Exceptionalities (2 cr)
MusA 114	Studio Instruction: Piano (2 cr)*
MusA 115	Studio Instruction (2 cr)
MusA 124	Studio Instruction: Voice (6 cr)
MusA 145 and MusA 245	Piano Class for Music Majors/Minors (2 cr)
MusA 146 and MusA 246	Piano Class for Music Majors/Minors (2 cr)
MusA 324	Studio Instruction: Voice (6 cr)
MusA 380	Opera/Musical Theatre Studio (1 cr)
MusA 387, 487	Conducting I, II (4 cr)
MusA 490	Half Recital (0 cr)
MusC 139,	Aural Skills (6 cr)

MusC 140, MusC 239, MusC 240	
MusC 141, MusC 142, MusC 241, MusC 242	Theory of Music (10 cr)
MusC 328	Instrumental and Choral Arranging (3 cr)
MusH 111	Introduction to Music Literature (3 cr)
MusH 321, MusH 322, MusH 323	Music in Western Civilization (9 cr)
MusT 382	Elementary School Music Methods for Music Majors (3 cr)
MusT 383	Principles of Music Teaching (3 cr)
MusT 385	Choral Music in the Secondary School (2 cr)
MusT 432	Practicum: Music Teaching (14 cr)
MusT 435	Pedagogy and Materials: Voice (2 cr)
MusT 445	Proseminar in Music Teaching (2 cr)
MusT 485	Choral Ensemble Rehearsal Techniques (1 cr)
MusX 101	Orientation for Music Majors (0 cr)
MusX 140	Convocation (seven semesters) (0 cr)
MusX 283, MusX 284	Diction for Singers (4 cr)
Psyc 101	Introduction to Psychology (3 cr)

Major ensemble (six different semesters chosen from MusA 116/316 Concert Choir - Vandaleers, MusA 117/317 University Chorus) (6 cr)
Other ensemble (one semester chosen from MusA 116/316 Concert Choir - Vandaleers, MusA 117/317 University Chorus, MusA 118/318 Jazz Choir, MusA 365 Chamber Ensemble, MusA 380 Opera/Musical Theatre Studio) (1 cr)
Courses to total 128 credits for this degree

** Voice majors must register for piano class before enrolling in applied piano instruction.*

6. Change the curricular requirements of **Music Education: Instrumental** (B.Mus.) [**Effective**: Summer 2013]

NOTE: For registration in upper-division courses in education, students must have been admitted to the teacher education program and maintain a GPA of 2.75. For admission criteria, refer to "Admission to the Teacher Education Program" in the College of Education section.

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

Comm 101	Fundamentals of Public Speaking (2 cr)
EDCI 201	Contexts of Education (2 cr)
EDCI 301	Learning, Development, and Assessment (3 cr)
EDCI 453	Phonics, Phonological Awareness, Fluency, and Assessment (1 cr)
EDCI 463	Literacy Methods for Content Learning (3 cr)
EDSP 300	Educating for Exceptionalities (2 cr)
MusA 115	Studio Instruction (2 cr)
MusA 124	Studio Instruction (6 cr)
MusA 145 and MusA 245	Piano Class for Music Majors/Minors (2 cr)
MusA 146 and MusA 246	Piano Class for Music Majors/Minors (2 cr)
MusA 387, MusA 487	Conducting I, II (4 cr)
MusA 324	Studio Instruction (6 cr)
MusA 490	Half Recital (0 cr)
MusC 139, MusC 140, MusC 239, MusC 240	Aural Skills (6 cr)
MusC 141, MusC 142, MusC 241, MusC 242	Theory of Music (10 cr)
MusC 328	Instrumental and Choral Arranging (3 cr)
MusH 111	Introduction to Music Literature (3 cr)
MusH 321, MusH 322, MusH 323	Music in Western Civilization (9 cr)
MusT 251, MusT 253, MusT 254, MusT 255, MusT 352	Instrumental Techniques (5 cr)
MusT 382	Elementary School Music Methods for Music Majors (3 cr)

MusT 383	Principles of Music Teaching (3 cr)
MusT 386	Instrumental Music in the Secondary School (2 cr)
MusT 432	Practicum: Music Teaching (14 cr)
MusT 445	Proseminar in Music Teaching (2 cr)
MusT 465	Jazz Band Rehearsal Techniques (1 cr)
MusT 466	Marching Band Techniques (1 cr)
MusT 467	Band Literature and Rehearsal Techniques (1 cr)
MusT 486	Orchestral Literature and Rehearsal Techniques (1 cr)
MusX 101	Orientation for Music Majors (0 cr)
MusX 140	Convocation (seven semesters) (0 cr)
Psyc 101	Introduction to Psychology (3 cr)

Major ensembles (six different semesters) (6 cr)*

Other ensembles (two different semesters chosen from MusA 119/319 Marching Band, MusA 121/321 Concert Band, MusA 122/322 Orchestra, or MusA 320 Wind Ensemble, MusA 323 Jazz Ensemble, MusA 365 Chamber Ensemble, MusA 366 Orchestral Repertoire (maximum of one semester)) (students whose major applied medium is keyboard must select MusA 315 Collaborative Piano to satisfy this requirement) (2 cr)

Courses to total 128 credits for this degree

Students may also complete an optional Emphasis in Jazz Education by completing the following course work (15 cr):

MusA 210	Jazz Improvisation (2 cr)
MusC 204	Special Topics: Jazz Arranging (2 cr)
MusC 329	Theoretical Basis of Jazz (2 cr)
MusH 410	Studies in Jazz History (3 cr)
MusT 465	Jazz Band Rehearsal Techniques (1 cr)

Electives in ensembles, combos, or applied study (5 cr)

** The major ensemble requirement must be completed in six different semesters; **wind and percussion majors** must register for three different semesters of MusA 119/319 Marching Band and three different semesters of MusA 121/321 Concert Band, or MusA 320 Wind Ensemble. **Wind and percussion majors** may, by audition, substitute two semesters of MusA 122/322 Orchestra for MusA 121/321 Concert Band, or MusA 320 Wind Ensemble. **String majors** must register for six different semesters of MusA 122/322 Orchestra and one semester of MusA 119/319 Marching Band. **Keyboard and guitar majors** must enroll in one semester of MusA 119/319 Marching Band. **Keyboard and guitar majors** may substitute one semester of MusA 323 Jazz Band or MusA 365 Jazz Combo, a prerequisite for MusT 465, for one semester of major ensemble. They may enroll in large vocal ensembles to satisfy the remaining major ensemble requirements. **Wind, percussion, keyboard, and string majors** must have a total of four semesters of major ensemble participation (as defined above) at UI.*

7. Change the curricular requirements of **Music Education: Vocal-Instrumental** (B.Mus.) [**Effective**: Summer 2013]

NOTE: For registration in upper-division courses in education, students must have been admitted to the teacher education program and maintain a GPA of 2.75. For admission criteria, refer to "Admission to the Teacher Education Program" in the College of Education section of part four of this catalog.

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

Comm 101	Fundamentals of Public Speaking (2 cr)
EDCI 201	Contexts of Education (2 cr)
EDCI 301	Learning, Development, and Assessment (3 cr)
EDCI 453	Phonics, Phonological Awareness, Fluency, and Assessment (1 cr)
EDCI 463	Literacy Methods for Content Learning (3 cr)
EDSP 300	Educating for Exceptionalities (2 cr)
MusA 114	Studio Instruction (voice) (3 cr)
MusA 115	Studio Instruction (2 cr)
MusA 124	Studio Instruction (instrumental) (6 cr)
MusA 145 and MusA 245	Piano Class for Music Majors/Minors (2 cr)
MusA 146 and MusA 246	Piano Class for Music Majors/Minors (2 cr)
MusA 147	Voice Class (1 cr)
MusA 324	Studio Instruction (6 cr)
MusA 387, 487	Conducting I, II (4 cr)
MusA 490	Half Recital (0 cr)
MusC 139, MusC 140, MusC 239, MusC 240	Aural Skills (6 cr)
MusC 141, MusC 142, MusC 241, MusC 242	Theory of Music (10 cr)
MusC 328	Instrumental and Choral Arranging (3 cr)
MusH 111	Introduction to Music Literature (3 cr)
MusH 321, MusH 322, MusH 323	Music in Western Civilization (9 cr)

MusT 251, MusT 253, MusT 254, MusT 255, MusT 352	Instrumental Techniques (5 cr)
MusT 382	Elementary School Music Methods for Music Majors (3 cr)
MusT 383	Principles of Music Teaching (3 cr)
MusT 385	Choral Music in the Secondary School (2 cr)
MusT 386	Instrumental Music in the Secondary School (2 cr)
MusT 432	Practicum: Music Teaching (14 cr)
MusT 445	Proseminar in Music Teaching (2 cr)
MusT 465	Jazz Band Rehearsal Techniques (1 cr)
MusT 466	Marching Band Techniques (1 cr)
MusT 467	Band Literature and Rehearsal Techniques (1 cr)
MusT 485	Choral Ensemble Rehearsal Techniques (1 cr)
MusT 486	Orchestral Literature and Rehearsal Techniques (1 cr)
MusX 101	Orientation for Music Majors (0 cr)
MusX 140	Convocation (seven semesters) (0 cr)
Psyc 101	Introduction to Psychology (3 cr)

Major ensembles (six different semesters)* (6 cr)
Major ensembles (two different semesters chosen from MusA 116/317 Concert Choir - Vandaleers, MusA 117/ 317 University Chorus) (2 cr)
Other ensembles (two different semesters chosen from MusA 119/319 Marching Band, MusA 121/321 Concert Band, MusA 122/322 Orchestra, or MusA 320 Wind Ensemble, MusA 323 Jazz Ensemble, MusA 365 Chamber Ensemble, MusA 366 Orchestral Repertoire (maximum of one semester)) (students whose major applied medium is keyboard must select MusA 315 Collaborative Piano to satisfy this requirement) (2 cr)

Courses to total 128 credits for this degree

** The major ensemble requirement must be completed in six different semesters;* ***wind and percussion majors*** *must register for three different semesters of MusA 119/319 Marching Band and three different semesters of MusA 121/321 Concert Band, or MusA 320 Wind Ensemble.* ***Wind and percussion majors*** *may, by audition, substitute two semesters of MusA 122/322 Orchestra for MusA 121/321 Concert Band, or MusA 320 Wind Ensemble.* ***String majors*** *must register for six different semesters of MusA 122/322 Orchestra and one semester of MusA 119/319 Marching Band.* ***Keyboard and guitar majors*** *must enroll in one semester of MusA 119/319 Marching Band.* ***Keyboard and guitar majors*** *may substitute one semester of MusA 323 Jazz Band or MusA 365 Jazz Combo, a prerequisite for MusT 465, for one semester of major ensemble. They may enroll in large vocal ensembles to satisfy the remaining major ensemble requirements.* ***Wind, percussion, and string majors*** *must have a total of four semesters of major ensemble participation (as defined above) at UI.*

8. Change the curricular requirements of **Music Education: Vocal** (B.Mus.) [**Effective**: Summer 2014]

NOTE: For registration in upper-division courses in education, students must have been admitted to the teacher education program and maintain a GPA of 2.75. For admission criteria, refer to "Admission to the Teacher Education Program" in the College of Education section.
Required course work includes the university requirements (see regulation J-3) and the specific requirements in one of the two sections below:

A. Voice

Comm 101	Fundamentals of Public Speaking (2 cr)
EDCI 201	Contexts of Education (2 cr)
EDCI 301	Learning, Development, and Assessment (3 cr)
EDCI 453	Phonics, Phonological Awareness, Fluency, and Assessment (1 cr)
EDCI 463	Literacy Methods for Content Learning (3 cr)
EDSP 300	Educating for Exceptionalities (2 cr)
MusA 114	Studio Instruction: Piano (2 cr)*
MusA 115	Studio Instruction (2 cr)
MusA 124	Studio Instruction: Voice (6 cr)
MusA 145 and MusA 245	Piano Class for Music Majors/Minors (2 cr)
MusA 146 and MusA 246	Piano Class for Music Majors/Minors (2 cr)
MusA 324	Studio Instruction: Voice (6 cr)
MusA 380	Opera/Musical Theatre Studio (1 cr)
MusA 387, 487	Conducting I, II (4 cr)
MusA 490	Half Recital (0 cr)
MusC 139, MusC 140, MusC 239, MusC 240	Aural Skills (6 cr)
MusC 141, MusC 142, MusC 241, MusC 242	Theory of Music (10 cr)
MusC 328	Instrumental and Choral Arranging (3 cr)
MusH 111	Introduction to Music Literature (3 cr)
MusH 321, MusH 322,	Music in Western Civilization (9 cr)

MusH 323	
MusT 382	General Music Methods~~Elementary School Music Methods for Music Majors~~ (3 cr)
MusT 383	Principles of Music Teaching (3 cr)
MusT 385	Choral Music in the Secondary School (~~2~~ 3 cr)
MusT 432	Practicum: Music Teaching (14 cr)
MusT 435	Pedagogy and Materials: Voice (2 cr)
MusT 445	Proseminar in Music Teaching (~~2~~ 1 cr)
~~MusT 485~~	~~Choral Ensemble Rehearsal Techniques (1 cr)~~
MusX 101	Orientation for Music Majors (0 cr)
MusX 140	Convocation (seven semesters) (0 cr)
MusX 283, MusX 284	Diction for Singers (4 cr)
Psyc 101	Introduction to Psychology (3 cr)

Major ensemble (six different semesters chosen from MusA 116/316 Concert Choir - Vandaleers, MusA 117/317 University Chorus) (6 cr)
Other ensemble (one semester chosen from MusA 116/316 Concert Choir - Vandaleers, MusA 117/317 University Chorus, MusA 118/318 Jazz Choir, MusA 365 Chamber Ensemble, MusA 380 Opera/Musical Theatre Studio) (1 cr)
Courses to total 128 credits for this degree

** Voice majors must register for piano class before enrolling in applied piano instruction.*

9. Change the curricular requirements of **Music Education: Instrumental** (B.Mus.) [**Effective**: Summer 2014]

NOTE: For registration in upper-division courses in education, students must have been admitted to the teacher education program and maintain a GPA of 2.75. For admission criteria, refer to "Admission to the Teacher Education Program" in the College of Education section.

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

Comm 101	Fundamentals of Public Speaking (2 cr)
EDCI 201	Contexts of Education (2 cr)
EDCI 301	Learning, Development, and Assessment (3 cr)
EDCI 453	Phonics, Phonological Awareness, Fluency, and Assessment (1 cr)
EDCI 463	Literacy Methods for Content Learning (3 cr)
EDSP 300	Educating for Exceptionalities (2 cr)
MusA 115	Studio Instruction (2 cr)
MusA 124	Studio Instruction (6 cr)
MusA 145 and MusA 245	Piano Class for Music Majors/Minors (2 cr)
MusA 146 and MusA 246	Piano Class for Music Majors/Minors (2 cr)
MusA 387, MusA 487	Conducting I, II (4 cr)
MusA 324	Studio Instruction (6 cr)
MusA 490	Half Recital (0 cr)
MusC 139, MusC 140, MusC 239, MusC 240	Aural Skills (6 cr)
MusC 141, MusC 142, MusC 241, MusC 242	Theory of Music (10 cr)
MusC 328	Instrumental and Choral Arranging (3 cr)
MusH 111	Introduction to Music Literature (3 cr)
MusH 321, MusH 322, MusH 323	Music in Western Civilization (9 cr)
MusT 251, MusT 253, MusT 254, MusT 255, MusT 352	Instrumental Techniques (5 cr)
MusT 256	String Techniques and Orchestral Literature (1 cr)
MusT 382	General Music Methods~~Elementary School Music Methods for Music Majors~~ (3 cr)
MusT 383	Principles of Music Teaching (3 cr)
MusT 386	Instrumental Music in the Secondary School (~~2~~ 3 cr)
MusT 432	Practicum: Music Teaching (14 cr)
MusT 445	Proseminar in Music Teaching (~~2~~ 1 cr)
MusT 465	Jazz Band Rehearsal Techniques (~~1~~ 2 cr)
MusT 466	Marching Band Techniques (1 cr)
~~MusT 467~~	~~Band Literature and Rehearsal Techniques (1 cr)~~
~~MusT 486~~	~~Orchestral Literature and Rehearsal Techniques (1 cr)~~
MusX 101	Orientation for Music Majors (0 cr)

MusX 140	Convocation (seven semesters) (0 cr)
Psyc 101	Introduction to Psychology (3 cr)

Major ensembles (six different semesters) (6 cr)*
Other ensembles (two different semesters chosen from MusA 119/319 Marching Band, MusA 121/321 Concert Band, MusA 122/322 Orchestra, or MusA 320 Wind Ensemble, MusA 323 Jazz Ensemble, MusA 365 Chamber Ensemble, MusA 366 Orchestral Repertoire (maximum of one semester)) (students whose major applied medium is keyboard must select MusA 315 Collaborative Piano to satisfy this requirement) (2 cr)

Courses to total 128 credits for this degree

Students may also complete an optional Emphasis in Jazz Education by completing the following course work (15 cr):

MusA 210	Jazz Improvisation (2 cr)
MusC 204	Special Topics: Jazz Arranging (2 cr)
MusC 329	Theoretical Basis of Jazz (2 cr)
MusH 410	Studies in Jazz History (3 cr)
MusT 465	Jazz Band Rehearsal Techniques (1 cr)

Electives in ensembles, combos, or applied study (5 cr)

** The major ensemble requirement must be completed in six different semesters; **wind and percussion majors** must register for three different semesters of MusA 119/319 Marching Band and three different semesters of MusA 121/321 Concert Band, or MusA 320 Wind Ensemble. **Wind and percussion majors** may, by audition, substitute two semesters of MusA 122/322 Orchestra for MusA 121/321 Concert Band, or MusA 320 Wind Ensemble. **String majors** must register for six different semesters of MusA 122/322 Orchestra and one semester of MusA 119/319 Marching Band. **Keyboard and guitar majors** must enroll in one semester of MusA 119/319 Marching Band. **Keyboard and guitar majors** may substitute one semester of MusA 323 Jazz Band or MusA 365 Jazz Combo, a prerequisite for MusT 465, for one semester of major ensemble. They may enroll in large vocal ensembles to satisfy the remaining major ensemble requirements. **Wind, percussion, keyboard, and string majors** must have a total of four semesters of major ensemble participation (as defined above) at UI.*

10. Change the curricular requirements of **Music Education: Vocal-Instrumental** (B.Mus.) [**Effective**: Summer 2014]

NOTE: For registration in upper-division courses in education, students must have been admitted to the teacher education program and maintain a GPA of 2.75. For admission criteria, refer to "Admission to the Teacher Education Program" in the College of Education section of part four of this catalog.

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

Comm 101	Fundamentals of Public Speaking (2 cr)
EDCI 201	Contexts of Education (2 cr)
EDCI 301	Learning, Development, and Assessment (3 cr)
EDCI 453	Phonics, Phonological Awareness, Fluency, and Assessment (1 cr)
EDCI 463	Literacy Methods for Content Learning (3 cr)
EDSP 300	Educating for Exceptionalities (2 cr)
MusA 114	Studio Instruction (voice) (3 cr)
MusA 115	Studio Instruction (2 cr)
MusA 124	Studio Instruction (instrumental) (6 cr)
MusA 145 and MusA 245	Piano Class for Music Majors/Minors (2 cr)
MusA 146 and MusA 246	Piano Class for Music Majors/Minors (2 cr)
MusA 147	Voice Class (1 cr)
MusA 324	Studio Instruction (6 cr)
MusA 387, 487	Conducting I, II (4 cr)
MusA 490	Half Recital (0 cr)
MusC 139, MusC 140, MusC 239, MusC 240	Aural Skills (6 cr)
MusC 141, MusC 142, MusC 241, MusC 242	Theory of Music (10 cr)
MusC 328	Instrumental and Choral Arranging (3 cr)
MusH 111	Introduction to Music Literature (3 cr)
MusH 321, MusH 322, MusH 323	Music in Western Civilization (9 cr)
MusT 251, MusT 253, MusT 254, MusT 255, MusT 352	Instrumental Techniques (5 cr)
MusT 256	String Techniques and Orchestral Literature (1 cr)
MusT 382	General Music Methods~~Elementary School Music Methods for Music Majors~~ (3 cr)
MusT 383	Principles of Music Teaching (3 cr)
MusT 385	Choral Music in the Secondary School (~~2~~ 3 cr)
MusT 386	Instrumental Music in the Secondary School (~~2~~ 3 cr)

MusT 432	Practicum: Music Teaching (14 cr)
MusT 445	Proseminar in Music Teaching (~~2~~ 1 cr)
MusT 465	Jazz Band Rehearsal Techniques (~~1~~ 2 cr)
MusT 466	Marching Band Techniques (1 cr)
~~MusT 467~~	~~Band Literature and Rehearsal Techniques (1 cr)~~
~~MusT 485~~	~~Choral Ensemble Rehearsal Techniques (1 cr)~~
~~MusT 486~~	~~Orchestral Literature and Rehearsal Techniques (1 cr)~~
MusX 101	Orientation for Music Majors (0 cr)
MusX 140	Convocation (seven semesters) (0 cr)
Psyc 101	Introduction to Psychology (3 cr)

Major ensembles (six different semesters)* (6 cr)
Major ensembles (two different semesters chosen from MusA 116/317 Concert Choir - Vandaleers, MusA 117/ 317 University Chorus) (2 cr)
Other ensembles (two different semesters chosen from MusA 119/319 Marching Band, MusA 121/321 Concert Band, MusA 122/322 Orchestra, or MusA 320 Wind Ensemble, MusA 323 Jazz Ensemble, MusA 365 Chamber Ensemble, MusA 366 Orchestral Repertoire (maximum of one semester)) (students whose major applied medium is keyboard must select MusA 315 Collaborative Piano to satisfy this requirement) (2 cr)

Courses to total 128 credits for this degree

** The major ensemble requirement must be completed in six different semesters; **wind and percussion majors** must register for three different semesters of MusA 119/319 Marching Band and three different semesters of MusA 121/321 Concert Band, or MusA 320 Wind Ensemble. **Wind and percussion majors** may, by audition, substitute two semesters of MusA 122/322 Orchestra for MusA 121/321 Concert Band, or MusA 320 Wind Ensemble. **String majors** must register for six different semesters of MusA 122/322 Orchestra and one semester of MusA 119/319 Marching Band. **Keyboard and guitar majors** must enroll in one semester of MusA 119/319 Marching Band. **Keyboard and guitar majors** may substitute one semester of MusA 323 Jazz Band or MusA 365 Jazz Combo, a prerequisite for MusT 465, for one semester of major ensemble. They may enroll in large vocal ensembles to satisfy the remaining major ensemble requirements. **Wind, percussion, and string majors** must have a total of four semesters of major ensemble participation (as defined above) at UI.*

Naval Science

1. Change the curricular requirements of **Naval Science** (Minor) [**Effective**: Summer 2014]

NS 102	Ships Systems I (3 cr)
NS 201	Ships Systems II (3 cr)
NS 202	Seapower and Maritime Affairs (~~2~~ 3 cr)

~~A minimum of 12 credits chosen from the two lists below.~~ Students must complete a minimum of four ~~upper-division~~ courses from the lists below to equal 12 credits~~and at least 2 courses from each list (12 cr):~~

Two ~~to three courses~~ from the following:

NS 301	Navigation (3 cr)
NS 302	Naval Operations (3 cr)
NS 311	Evolution of Warfare (3 cr)
NS 401	Naval Leadership and Management (3 cr)
NS 402	Naval Leadership and Ethics (3 cr)
NS 412	Amphibious Operations (3 cr)

One from the following:

Hist 180	Introduction to East Asian History (3 cr)
Hist 331	The Age of African Empires (3 cr)
Hist 435	Latin America: The Colonial Era (3 cr)
Hist 438	Modern Mexico and the Americas (3 cr)
Hist 440	Social Revolution in Latin America (3 cr)
Hist 457	History of the Middle East (3 cr)
Hist 484	Modern China, 1840s to Present (3 cr)
Hist 485	Chinese Social and Cultural History (3 cr)
IS 325	The Contemporary Muslim World (3 cr)
IS 326	Africa Today (3 cr)
IS 370	Africa's Calling: The Culture of Ghana (3 cr)
PolS 420	Introduction to Asian Politics (3 cr)

One from the following:

Aero 411	National Security Affairs/Preparation for Active Duty (3 cr)
Aero 412	National Security Affairs/Preparation for Active Duty (3 cr)
Hist 412	Revolutionary North America and Early National Period, 1763-1828 (3 cr)
Hist 415	Civil War and Reconstruction, 1828-1877 (3 cr)
Hist 430	U.S. Diplomatic History (3 cr)
Hist 458	Military History (3 cr)
Hist 481	America's Wars in Asia (3 cr)
MS 227	American Military History (3 cr)
PolS 338	American Foreign Policy (3 cr)
PolS 449	World Politics and War (3 cr)

~~Two to three courses from the following:~~

~~Hist 430~~	~~U.S. Diplomatic History (3 cr)~~
~~Hist 455~~	~~Modern Europe (3 cr)~~
~~Hist 457~~	~~History of the Middle East (3 cr)~~
~~Hist 458~~	~~Military History (3 cr)~~
~~PolS 205~~	~~Introduction to Comparative Politics (3 cr)~~
~~PolS 237~~	~~International Politics (3 cr)~~
~~PolS 338~~	~~American Foreign Policy (3 cr)~~
~~PolS 440~~	~~International Organizations and International Law (3 cr)~~
~~PolS 449~~	~~World Politics and War (3 cr)~~
~~PolS 480~~	~~Politics of Development (3 cr)~~
~~PolS 487~~	~~Political Violence and Revolution (3 cr)~~
~~Soc 301~~	~~Introduction to Diversity and Stratification (3 cr)~~

Courses to total 21 credits for this minor

Physics

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

Phys 511 Techniques of Experimental Physics (3 cr)
Development of experimental techniques and skills in active research fields; foundation for any field of physics. Nine hrs of lab a wk.

2. Change the curricular requirements of **Physics** (B.S.) [**Effective**: Summer 2014]

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

Chem 111	Principles of Chemistry I (4 cr)
Chem 112	Principles of Chemistry II (5 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)
Phys 200	Physics Seminar (1 cr)
Phys 211, Phys 211L	Engineering Physics I and Lab (4 cr)
Phys 212, Phys 212L	Engineering Physics II and Lab (4 cr)
Phys 213, Phys 213L	Engineering Physics III and Lab (4 cr)
Phys 305	Modern Physics (3 cr)
Phys 321	Analytical Mechanics (3 cr)
Phys 341	Electromagnetic Fields I (3 cr)
Phys 351	Introductory Quantum Mechanics I (3 cr)

And one of the following emphases:

A. General Physics Emphasis

Phys 342	Electromagnetic Fields II (3 cr)
Phys 371	Mathematical Physics (3 cr)
Phys 433	Statistical Thermodynamics (3 cr)

Upper-division mathematics electives (6 cr)

Upper-division physics courses, including at least 4 cr of lab and 9 cr from the following: Phys 411, Phys 412, Phys 425, Phys 428, Phys 443, Phys 444, Phys 464, ~~and~~ Phys 465, and Phys 484 (at least 15 cr).
Courses to total 120 credits for this degree

B. Applied Physics Emphasis

Math 310	Ordinary Differential Equations (3 cr)
Math 330	Linear Algebra (3 cr)
Phys 411	Physical Instrumentation I (3 cr)

Four credits of upper-division lab work in physics and engineering

Physics and engineering electives (27 credit, of which at least 21 credits must be upper-division and at least 9 credits must be 400-level and 21 credits must come from the following: ECE 350 + ECE 351, ECE 460, ECE 462, Engr 210, Engr 240, Engr 335, Engr 350, ME 301, ME 412, ME 413, ME 420, MSE 201, MSE 313, MSE 427, Phys 428, Phys 433, Phys 443, Phys 444.)
Courses to total 120 credits for this degree

Plant, Soil, and Entomological Sciences

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

PlSc 302 Golf and Sports Turf Management (3 cr)
Turfgrass science, cultivation and management for a wide variety of commercial applications. Recommended Preparation: Majoring in Horticultural Sciences or Crop Sciences, or Professional Golf Management.
Prereq: *Junior standing*

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

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

Agricultural and Life Science Core

~~ASM 305~~	~~GPS and Precision Agriculture (3 cr)~~
AgEd 406	Exploring International Agriculture (3 cr)
~~Biol 115~~	~~Cells and the Evolution of Life (4 cr)~~
~~Comm 101~~	~~Fundamentals of Public Speaking (2 cr)~~
Soil 205, Soil 206	The Soil Ecosystem and Lab (~~3~~ 4 cr)
Stat 251	Statistical Methods (3 cr)

One of the following (2-3cr):

ASM 305	GPS and Precision Agriculture (3 cr)
ASM 412	Agricultural Safety and Health (2 cr)
PlSc 207	Introduction to Biotechnology (3 cr)

One of the following (4cr):

Chem 101	Introduction to Chemistry I (4 cr)
Chem 111	Principles of Chemistry I (4 cr)

One of the following (2-~~3~~-4cr):

Comm 101	Fundamentals of Public Speaking (2 cr)
Engl 207	Persuasive Writing (3 cr)
Engl 313	Business Writing (3cr)
Engl 316	Environmental Writing (3 cr)
Engl 317	Technical Writing (3 cr)

One of the following (3-4cr):

~~Math 130~~	~~Finite Mathematics (3 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)

Sustainable Crop and Landscape Systems Courses

~~AgEd 406~~	~~Exploring International Agriculture (2 cr)~~
Biol 115	Cells and the Evolution of Life (4 cr)
Ent 322	General and Applied Entomology (4 cr)
PlSc 102	The Science of Plants in Agriculture (3 cr)
PlSc 400	(s) Seminar (1 cr)
PlSc 415	Plant Pathology (3 cr)
PlSc 438	Pesticides in the Environment (3 cr)

One of the following (4 cr):

Biol 213	Principles of Biological Structure and Function (4 cr)
PlSc 205	General Botany (4 cr)

One of the following (3 cr):

Chem 275	Carbon Compounds (3 cr)
Chem 277	Organic Chemistry I (3 cr)

One of the following (3-5 cr)

Chem 253, Chem 254	Quantitative Analysis and Lab (5 cr)
MMBB 154, MMBB 155	Introductory Microbiology and Lab (4 cr)
MMBB 250, MMBB 255	General Microbiology and Lab (5 cr)
MMBB 300 or Biol 300	Survey of Biochemistry (3 cr)

And one of the following emphases:

A. Insects and Society

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

One of the following (3-4 cr):

Biol 310	Genetics (4 cr)
Gene 314	General Genetics (3 cr)

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

Courses to total 128 credits for this degree

B. Soil and Land Use

Chem 112	Principles of Chemistry II (5 cr)
Geol 101, Geol 101L	Physical Geology and Lab or
Geol 111, Geol 111L	Physical Geology for Science Majors and Lab (4 cr)
Phys 111, Phys 111L	General Physics I and Lab (4 cr)
Phys 112, Phys 112L	General Physics II and Lab (4 cr)
~~Soil 206~~	~~The Soil Ecosystem Lab (1 cr)~~
Soil 415	Soil and Environmental Physics (3 cr)
Soil 422	Environmental Soil Chemistry (3 cr)
Soil 425 or MMBB 425	Microbial Ecology (3 cr)
Soil 446	Soil Fertility (3 cr)
Soil 454	Pedology (3 cr)~~Soil Development and Classification (3 cr)~~
Soil 499	Directed Study (1 cr)

One of the following (3 cr):

CS 101	Introduction to Computer Science (3 cr)
CS 112	Introduction to Problem Solving and Programming (3 cr)

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

~~Soil 425~~	~~Microbial Ecology (3 cr)~~
~~Soil 437~~	~~Soil Biology (3 cr)~~

Courses to total 128 credits for this degree

C. Sustainable Cropping Systems

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

One of the following (1 cr):

Chem 276	Carbon Compounds Lab (1 cr)
Chem 278	Organic Chemistry I: Lab (1 cr)

One of the following (3 cr):

PlSc 398	Internship (3 cr)
PlSc 499	Directed Study (3 cr)

Professional Support Electives (9 cr):
Accounting
Animal and Veterinary Sciences
Agricultural Economics
Biology
Business
Business Law
Chemistry
Computer Science
Economics
Entomology
Foreign Languages (max 4 credits)
Forest Resources
Landscape Architecture
Microbiology, Molecular Biology and Biochemistry
Physics
Plant Science

Rangeland Ecology and Management
Renewable Materials
Soils

Sustainable Cropping Systems Electives (17 cr):

PlSc 408	Cereal Science (3 cr)
PlSc 410	Invasive Plant Biology (3 cr)
PlSc 433	Plant Tissue Culture Techniques (3 cr)
PlSc 490	Potato Science (3 cr)
Stat 431	Statistical Analysis (3 cr)

Courses to total 128 credits for this degree

D. Environmental Horticulture

Gene 314	General Genetics (3 cr)
~~MMBB 154, MMBB 155~~	~~Introductory Microbiology and Lab (4 cr)~~
PlSc 201	Principles of Horticulture (3 cr)
PlSc 300	Plant Propagation (3 cr)
PlSc 338	Weed Control (3 cr)
PlSc 401	Plant Physiology (3 cr)
~~Soil 206~~	~~The Soil Ecosystem Lab (1 cr)~~
Soil 446	Soil Fertility (3 cr)

One of the following (1 cr):

Chem 276	Carbon Compounds Lab (1 cr)
Chem 278	Organic Chemistry I: Lab (1 cr)

One of the following (3 cr):

PlSc 398	Internship (3 cr)
PlSc 499	Directed Study (3 cr)

Professional Support Electives (9 cr):
Accounting
Animal and Veterinary Sciences
Agricultural Economics
Biology
Business
Business Law
Chemistry
Computer Science
Economics
Entomology
Foreign Languages (max 4 credits)
Forest Resources
Landscape Architecture
Microbiology, Molecular Biology and Biochemistry
Physics
Plant Science
Rangeland Ecology and Management
Renewable Materials
Soils

Environmental Horticulture Electives (15 cr):

~~PlSc 302~~	~~Golf and Sports Turf Management (3 cr)~~
PlSc 340	Nursery Management (3 cr)
PlSc 341	Nursery Management Laboratory (1 cr)
PlSc 433	Plant Tissue Culture Techniques (3 cr)
PlSc 451	Vegetable Crops (3 cr)
PlSc 464	Landscape Maintenance (3 cr)
PlSc 490	Potato Science (3 cr)

Courses to total 128 credits for this degree

E. Plant Biotechnology

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

One of the following (3-4 cr):

MMBB 300	Survey of Biochemistry (3 cr)
MMBB 380	Introductory Biochemistry (4 cr)

One of the following (3 cr):

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

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

Plant Biotechnology Electives (12 cr):

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

Courses to total 128 credits for this degree

Political Science

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

PolS 381 ~~Western~~ European Politics (3 cr)
May be used as general education credit in J-3-d. Examination of political processes in ~~Western~~ European parliamentary systems; topics include parties and elections, coalition formation and dissolution, public policy, and the dynamics of the European Union.

PolS J437/J537 American Presidency (3 cr)
Roles, power, and functions of the presidency; relationships with other structures and institutions in the U.S. political system. Additional projects/assignments reqd for grad cr.
~~***Prereq:*** *Senior standing or Permission*~~

Sociology and Anthropology

1. Change the following course [**Effective**: Summer 2014]

Anth ~~441~~ 241 Introduction to the Study of Language (3 cr)
See Engl ~~441~~241.

Statistical Science

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

Stat 251 Statistical Methods (3 cr)
May be used as general education credit in J-3-c. Credit awarded for only one of Stat 251, Stat 301, and Stat 416. Intro to statistical methods including design of statistical studies, basic sampling methods, descriptive statistics, probability and sampling distributions; inference in surveys and experiments, regression, and analysis of variance.
Prereq: *Math 108, Math 137, Math 143, Math 160, Math 170, or Sufficient score on SAT, ACT, or COMPASS Math Test to qualify for registration in Math 143~~2 yrs of high school algebra and Permission~~*

2. Change the curricular requirements of **Process & Performance Excellence** (GR Academic Certificate) [**Effective**: Summer 2014]

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

Bus 439	Systems and Simulation (4 cr)
Bus 456 or Stat 456	Quality Management (3 cr)
~~Bus 531~~	~~Design for Six Sigma and Lean Management (3 cr)~~
~~Stat 446~~	~~Six Sigma Innovation (3 cr)~~
Stat 431	Statistical Analysis (3 cr)
Stat 507	Experimental Design (3 cr)
Stat 519	Multivariate Analysis (3 cr)

~~Electives (3 cr):~~

~~Bus 414~~	~~Entrepreneurship (3 cr)~~
~~Bus 456~~	~~Quality Management (3 cr)~~
~~ME 583~~	~~Reliability of Engineering Systems (3 cr)~~

Courses to total ~~12~~ 16 credits for this certificate

Theatre Arts

1. Add the following prerequisite to all applicable Theatre Arts courses (The) courses [**Effective**: Summer 2014]

Prerequisites: All prerequisites for Theatre Arts (The) courses must be completed successfully with a grade of C or better.

2. Add the following course [**Effective**: Summer 2014]

The 190 Theatre Practice (1 cr)
Open to non-majors. Practical experience in an aspect of theatre production including but not limited to: board operation, scenery shifting and wardrobe.

3. Change the following course [**Effective**: Summer 2014]

The 103 Theatre Technology I (~~4~~ 3 cr)
Intro to theatre production spaces, shop tools, construction materials, and stage equipment; theories and methods used in lighting and in the construction of scenery. ~~Three lec and six hrs of lab a wk.~~Course includes a lab component.

The 104 Theatre Technology II (~~4~~ 3 cr)
Methods of costume construction techniques; intro to ~~masks,~~ sewing, crafting and costuming skills~~millinery, and costume craft skills~~. ~~Three lec and six hrs of lab a wk.~~Course includes a lab component.

The 390 (s) Theatre Practice II (cr arr)
Open to non-majors. Advanced ~~Practical~~ practical experience in all aspects of theatre production ~~and performance~~.
Prereq: *The 190*

The 406 Design Studio (cr arr)
Individual training in an area of theatre design; includes an advanced design assignment and the public presentation of a play.~~Advanced design studio.~~
Prereq: *The 201, The 202, ~~and~~ or The 205; or Permission*

The 464 Scenographic Techniques (3 cr)
Practical survey of graphics used in design and execution of scenery for the stage, including drafting, perspective, front and rear elevations, painters elevations, and properties design and drafting. ~~Four hrs of lab a wk.~~
Prereq: *The 201 or Permission*

The 465 Advanced Scene Design (3 cr)
Development of a conceptual approach to design through assorted design projects. ~~Recommended Preparation: The 464.~~
Prereq: *The 201 or Permission*

The J484/J584 Advanced Stage Lighting (3 cr, Max 12)
Advanced lighting design theories and practice through design of assorted productions in realistic drama, dance, arena, thrust, and mystical theatre. Additional projects/assignments required for graduate credit. ~~Recommended Preparation: The 205.~~
Prereq: *The 205 or Permission*

4. Change the curricular requirements of **Theatre Arts** (B.A., B.S., B.F.A.) [**Effective**: Summer 2014]

To be eligible for graduation, theatre arts students taking B.A./B.S. options in theatre must achieve a minimum grade of C in all theatre courses required by their major. To participate in departmental productions, a student must maintain a minimum 2.50 overall GPA.

Required course work for students pursuing the B.A. in theatre arts includes (1) the university requirements (see regulation J-3), (2) the general CLASS core requirements, and (3) the theatre arts core courses listed below.

Required course work for students pursuing the B.S. in theatre arts includes (1) the university requirements (see regulation J-3), (2) the general CLASS core, an established minor, or courses in a related field approved by the Theatre Arts Department (20 cr), and (3) the theatre arts core courses listed below.

The 101	Introduction to the Theatre (3 cr)
The 103, The 104	Theatre Technology I, II (~~8~~ 6 cr)
The 105 The 106	Basics of Performance (6 cr)
The 190	Theatre Practice (1 cr)
The 201	Scene Design I (3 cr)
The 202	Costume Design I (3 cr)
The 205	Lighting Design I (3 cr)
The 206	Theatrical Makeup (1 cr)
The 371	Play Analysis (3 cr)
The 390	Theatre Practice II (At least 1 cr in 3 difference semesters)~~Theatre Workshop (at least 1 cr in 4 different semesters) (4 cr)~~
The 468	Theatre History I (3 cr)
The 469	Theatre History II (3 cr)
The 473	Senior Capstone Seminar (1 cr)
The 483	Senior Capstone Project (1 cr)
Electives in design/production (3 cr)	
Courses to total 120 credits for this degree	

Women's Studies

1. Add the following course [**Effective**: Summer 2014]

WmSt 410 Feminist Theory and Action (3 cr)
This course examines a range of feminist theory, including both classic and lesser-known texts, while grounding the study of theory in an examination of historical and contemporary feminist activism. The course covers some of the key concepts and debates within feminism and explores the relationship between theory and action. Students learn how to read theory and apply their knowledge to current events, issues, and problems in the United States and globally.

WmSt 498 Internship (1-6 cr)
Directed student internship in approved setting relevant to women's and gender studies with campus, local, national, or international organizations or offices. Graded pass/fail, various credits depending on the length and type of internship.
Prereq: *Permission of the Coordinator of Women's Studies*

All Departments

1. Change the status of the following courses from Active to Dormant [**Effective**: Summer 2014]

Agricultural Economics and Rural Sociology
AGEC 361 Fall 2008
AGEC 383 Fall 2008
AGEC 427 Fall 2008

Agricultural Education and 4-H Youth Development
AG 210 Never
AG 212 Never

Animal and Veterinary Science
AVS 274 Never
AVS 476 Spring 2009
AVS 526 Spring 2009

Art and Architecture
ART 509 Spring 2007
ART 511 Never
VTD 344 Fall 2008

Biological and Agricultural Engineering
BAE 432 Spring 2009
BAE 532 Spring 2009
ASM 306 Spring 2009

Biological Sciences
BIOL 417 Fall 2004

BIOL 450 Spring 2008
MMBB 521 Never

Business
BUS 261 Fall 2008
BUS 352 Fall 2008
BUS 362 Spring 2009
ECON 427 Fall 2008
EMBA 506 Never

Chemistry
CHEM 552 Spring 2008
CHEM 567 Fall 2008

Civil Engineering
GEOE 528 Fall 2008

Computer Science
CS 424 Spring 2007
CS 443 Never
CS 573 Never

Core Science
CORS 207 Fall 2008
CORS 208 Spring 2009
CORS 222 Fall 2008

Conservation Social Sciences
CSS 565 Fall 2008

Curriculum and Instruction
EDCI 530 Fall 2008
EDCI 532 Never
EDCI 560 Spring 2009
EDSP 521 Fall 2008
EDSP 544 Never
LIBS 416 Never

Electrical and Computer Engineering
ECE 425 Never
ECE 574 Spring 2009

Engineering
EM 511 Spring 2008

Environmental Engineering
ENVE 533 Fall 2008

Geography
GEOG 450 Spring 2009
GEOG 542 Fall 2007
GEOG 570 Never
GEOG 575 Never

Geological Sciences
GEOL 308 Never
GEOL 390 Never
HYDR 413 Spring 2009
HYDR 513 Spring 2009

History
HIST 435 Fall 2008
HIST 515 Fall 2006
HIST 525 Fall 2007
HIST 535 Fall 1996
HIST 538 Fall 2002
HIST 540 Spring 2009

Journalism and Mass Media
JAMM 401 Summer 2008

Law
LAW 933 Never
LAW 944 Fall 2007
LAW 961 Fall 2008
LAW 968 Never

Mathematics
MATH 497 Never
MATH 524 Never
MATH 525 Spring 2002
MATH 526 Fall 1997
MATH 554 Never

Mechanical Engineering
ME 324 Fall 2008
ME 451 Spring 2007
ME 526 Fall 2006
ME 551 Spring 2007
ME 577 Spring 2009

Modern Languages and Cultures
LATN462 Fall 2008
NEZP 201 Fall 2008
NEZP 202 Spring 2009

Movement Sciences
H&S 431 Spring 2009
H&S 495 Spring 2009
PEP 202 Fall 2008
PEP 220 Fall 2008
PEP 510 Spring 2009

Music
MUST 565 Never
MUST 588 Never

Nuclear Engineering
NE 462 Never
NE 525 Never
NE 540 Never
NE 580 Fall 1997
NE 581 Never
NE 585 Never

Natural Resources
NR 100 Spring 2009

Plant, Soil, and Entomological Sciences
SOIL 437 Fall 2008

Political Science
POLS456 Fall 2008
POLS540 Fall 2008

Religious Studies
RELS423 Spring 2009

Statistical Science
STAT 453 Spring 2008
STAT 544 Spring 2008
STAT 546 Never

Theatre Arts
THE 221 Never
THE 222 Never
THE 386 Never
THE 411 Never
THE 421 Never
THE 445 Never
THE 467 Never
THE 521 Never
THE 545 Never
THE 567 Never

2. Change the status of the following courses from Dormant to Inactive [**Effective**: Summer 2014]

Agricultural Education and 4-H Youth Studies
AGED 557

Animal and Veterinary Science
AVS 563

Biological Sciences
GENE 320
MMBB 421

Chemical and Materials Engineering
CHE 579

Chemistry
CHEM 468

Core Science
CORS 219

Computer Science
CS 386

Curriculum and Instruction
EDCI 102
EDCI 528
EDCI 529
EDCI 551
EDCI 552
EDCI 562
LIBS 523

Electrical and Computer Engineering
ECE 542
ECE 549

Engineering
EM 484
EM 584

English
ENGL 425
ENGL 471

Environmental Engineering
ENVE 544

Family and Consumer Sciences
FCS 554
FCS 561

Geography
GEOG 180

Geological Sciences
GEOL 360
GEOL 416

Interdisciplinary Studies
INTR 103

ME 408
ME 411
ME 428
ME 508
ME 587

Modern Languages and Cultures
LATN365

Movement Sciences
PEP 480
PEP 591

Natural Resources
NR 210
NR 310
NR 510

Philosophy
PHIL 457
PHIL 556

Physics
PHYS 510
PHYS 512
PHYS 517

Political Science
POLS380
POLS421
POLS434
POLS450
POLS521
POLS534
POLS550
POLS564

Statistical Science
STAT 271

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FOR THE FACULTY'S INFORMATION

Correction to General Curriculum Report 270:

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: