

# General Curriculum Report #218

UNIVERSITY OF IDAHO - REGISTRAR'S OFFICE

December 13, 2001

## 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 Council 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 Council 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 L & S or in the College of Agriculture, and is signed by five faculty members of the respective college, those items will be returned to the college concerned for further consideration.

*Note:* All changes on this report will be made effective Summer 2002, unless otherwise noted in brackets [ ].

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## ACCOUNTING

1. Change description of: **Acct 201 Introduction to Financial Accounting** (3 cr) (C). Overview of the nature and purpose of general purpose financial statements provided to external decision makers; emphasis on use of financial statement information. May involve evening exams. ~~May be taken before or after Acct 202.~~ Carries only 1 credit after Acct 205.
2. Change description of: **Acct 202 Introduction to Managerial Accounting** (3) (C). Intro to cost behavior and managerial use of accounting information for planning, control, and performance evaluation. May involve evening exams. ~~May be taken before or after Acct 201.~~ Carries only 1 credit after Acct 205.
3. Add: **Acct 205 Fundamentals of Accounting** (4 cr). Principles of financial and managerial accounting with emphasis on the role of accounting information in decision making by managers and external users. Projects and assignments are done using spreadsheet software. Three lectures and one hour of lab a week. May include evening exams. Carries no credit after Acct 201 and 202; carries 3 credits after either Acct 201 or 202.
4. Change number, description, and prereq of: **Acct ~~301~~ 315 Corporate Accounting and Reporting** (3 cr). Preparation of general purpose financial statements for external users based on U.S. generally accepted accounting principles ~~for assets, liabilities, stockholders' equity; emphasis on concepts behind current standards; discussion of alternate theories including international accounting standards.~~ Emphasis on transactions relating to financing and investing activities. Conceptual framework based instruction includes comparison with alternative treatments used in other countries and under U.S. tax code. May include evening exams. Prereq: Acct 310 and 311, or Acct 300; ~~prereq or coreq: Acct 305.~~
5. Change number of: **Acct ~~305~~ 275 Accounting Information Systems** (3 cr). Role of accounting information systems in effective control of organizations; coverage of internal controls, flowcharting, systems analysis and design, implementation and evaluation as they relate to the major transaction systems cycles; revenue, purchases, production, payroll, cash receipts and disbursements. May include evening exams. Prereq: Acct 300; ~~prereq or coreq: Acct 301 or 201 or 202 or 205.~~
6. Add: **Acct 310 Accounting for Business Decisions I** (2 cr). Accounting concepts and theories with emphasis on the role of accounting information in decision making within and about business; effect of accounting information on behavior; recognition and valuation issues and analysis of financial statements; and use of cost management accounting systems to support product and process planning. May include evening exams. Coreq: Bus 340
7. Add: **Acct 311 Accounting for Business Decisions II** (2 cr). Use of accounting systems to support planning and decision-making in organizations; managing the firm's financial, human, and information resources; and business operating decisions. May include evening exams. Prereq: Acct 310; Coreq: Bus 343.

8. Change description and prereqs of: **Acct 381 Accounting for Managers and Investors** (3 cr). Not open for cr to ~~accounting~~ College of Business & Economics majors. Development of knowledge and skills relating to the use of accounting information to enhance decision making. May involve some evening exams. Carries no credit after Acct 311. Prereq: Acct 201, ~~and~~ 202, or Acct 205.
9. Change prereq of:
  - **Acct 385 Cost and Management Accounting** (3 cr). Prereq: Acct ~~201, 202, and Stat 251 or 271~~ 275 or Bus 345.
  - **Acct J430/J530 Accounting for Public Sector Entities** (3 cr). Prereq: Acct 201, ~~and~~ 202, or Acct 205.
  - **Acct 483 Federal and State Taxes I** (3 cr). Prereq: Acct 201, ~~and~~ 202, or Acct 205.
10. Add undergrad joint-listing, change title, and description of: **Acct J485/J585 Federal Gift and Estate Taxation** (3 cr). Gift and estate tax consequences on property transfer during life and at death, tax research, and estate planning and personal financial planning. Additional class meetings, projects, and/or assignments reqd for grad cr. May include evening exams. Prereq: Acct 483 (Acct J484/J584 recommended).
11. Change prereqs/coreqs of:
  - **Acct 490 Advanced Corporate Accounting and Reporting** (3 cr). Prereq: Acct ~~301~~ 315.
  - **Acct 492 Auditing and Controls** (3 cr). Prereq: Acct ~~301, 305~~ 275, 315, and 385.
  - **Acct 561 Comparative Accounting Theory** (3 cr). Prereq: Acct ~~301~~ 315.
  - **Acct 570 Advanced Accounting Systems Analysis and Controls** (3 cr). Prereq: Acct ~~305~~ 275. Coreq: Acct 492.
  - **Acct 582 Cost Management Systems** (3 cr). Prereq: Acct 202 or Acct 205, and Engr 360 or Bus 301.

## AGRICULTURAL AND EXTENSION EDUCATION

1. Change curriculum of: **B.S.Ag.Ed. – Teaching & Nonteaching Options**
  - A. **TEACHING OPTION . . .**  
Math 130 Finite Math, ~~or Math 137 Algebra with Applications~~ Math 143 Pre-calculus Algebra & Analytic Geometry, Math 160 Survey of Calculus, or Math 170 Analytic Geometry & Calculus I (3-4 cr)
  - B. **NONTEACHING OPTION . . .**  
Math 130 Finite Mathematics, ~~or 137 Algebra with Applications or Math~~ 143 Pre-calculus Algebra and Analytic Geometry, Math 160 Survey of Calculus, or Math 170 Analytic Geometry & Calculus I (3-4 cr)
2. Change curriculum of: **Agricultural Science and Technology major (B.S.Ag.Sc.Tech.)**  
Required course work includes the university requirements (see regulation J-3) and: . . .  
Math 130 Finite Math, Math 137 Algebra with Applications, or Math 143 Pre-calculus Algebra and Analytic Geometry, or Math 160 Survey of Calculus I, or Math 170 Analytic Geometry & Calculus I (3-4 cr)

## ARCHITECTURE

1. Change title, credits, and description of: **Arch 284 Computer-Aided Design Applications in Architecture I** (~~2~~ 3 cr). ~~Principles of computer-aided design concepts and methods in architecture and interior architecture. Introduction to the application of current computer technologies in architecture and interior design; emphasis on the fundamentals of integrating multi-dimensional modeling, computer-aided design and visualization methods into the design process.~~
2. Change title, credits, and description of: **Arch 374 Computer Applications in Architecture II** (~~3~~ 2 cr). ~~Application of current computer technologies in architecture and interior architecture; emphasis on integration of multi-dimensional modeling and visualization methods into the design process. Exploration of computer technologies used to investigate, verify, and present design decisions; emphasis directed toward topics relevant to the representation of architectural forms and design knowledge.~~ Prereq: Arch 284 or perm.

3. Add: **Arch 505 Architectural Research Methods** (3 cr). Quantitative and qualitative research designs, procedures, instruments, and techniques for use in architectural research, programming and design. Prereq: grad standing in M.Arch./M.A. prog.

4. Change curricular requirements for: **Architecture (B.S.Arch.)**

**PROFESSIONAL ARCHITECTURE PROGRAM (B.S.Arch.)**

The Professional Program is a five-year seamless program that involves fulfilling the requirements of both the B.S. Arch. and the M.Arch. simultaneously.

**Bachelor of Science in Architecture**

This is a four-year preprofessional curriculum leading to a B.S.Arch. degree. ~~This is~~ not an accredited professional architectural degree. After the first year of study, academic achievement is reviewed to determine continued eligibility for continued study in architecture . . .

Students accepted into the final two years of the curriculum are required to maintain a minimum ~~2.5~~ 3.0 GPA and to receive a grade of "C B" or higher in architectural design courses. ~~Students who have not been accepted into the third year of the curriculum may not enroll in architectural design courses. Students who have left the program may only re-enter the curriculum by application to the departmental admissions committee. This is important as students who wish to complete the M.Arch. degree are required to gain acceptance to the College of Graduate Studies. See below for M.Arch. degree requirements.~~

Note: Students who have not been accepted into the third year of the curriculum may not enroll in architectural design courses. Students who have left the program may only re-enter the curriculum by application to the departmental admissions committee.

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

~~Arch 251 Principles of Architecture (2 cr)~~

Arch 284 Computer ~~Aided Design~~ Applications in Architecture I (2 3 cr)

Arch 374 Computer Applications in Architecture II (3 2 cr)

Five of the following courses (15-17 cr): . . .

Arch 475 ~~476~~ Professional Practice I-II

Art 110 Visual Communication (2 cr)

5. Change curriculum of: **Master of Architecture**

The remaining courses required to complete 30 credits for the degree may be 400- or 500-level architecture courses or 300- or 400-level courses in supporting areas. The following courses or their approved equivalent must have been completed for the M.Arch. degree: Arch 463, 464, 465, 466, ~~468/568~~, 475, ~~476~~, 483 and 6 credits of general graduate electives and 6 credits of Graduate Architecture electives from among the following: Arch 505 Architectural Research Methods, Arch 501 Graduate Seminars (Urban Morphology, Non-Western Architecture, Natural Lighting, Vital Signs, Urban Integration [Boise], Virtual Technologies, and Aging and Environment), Arch 568 Technical Integration, and Arch 506 Study Abroad. Equivalents must be approved by the chair of the Department of Architecture.

## **ART**

1. Drop the following dormant course: **Art 102 Survey of Art** (2 cr).
2. Change title, credits, and description of: **Art 410 Gallery Professional Practices** (2 cr, ~~max 4~~). Descriptive analysis of gallery functions; hands-on student participation installing, packaging art works for shipping, lighting, promotions, advertising, and marketing; speakers series of professionals in the field and in allied areas, e.g., gallery directors, artists as presenters/installers, professional art movers. Professional issues for studio artists and designers including obligations, duties, and responsibilities in practice, self-promotion, and career planning. Includes analysis of gallery operations. Prereq: adv standing or perm.
3. Change departmental curricular requirements as follows:  
**ART CORE**  
Art 100 Visual Art (~~not required for studio art majors~~) (3 cr)  
Art 110 Visual Communication (2 cr)  
Art 111-112 Drawing I-II (5 cr)  
Art 121-122 Visual Communication and the Design Process (5 cr)

## **STUDIO ART (B.F.A.)**

The B.F.A. is a four-year degree divided into two parts: the preprofessional program (freshman and sophomore years) and the professional program (junior and senior years). Majors are eligible to apply for the professional program when they have completed the art core and the 200-level art course requirements (~~31 credits~~), and earned a minimum 2.5 GPA. Application for the professional program may be made during the semester the student is completing these requirements. Applications for the professional B.F.A. program will be requested each semester. Transcripts and a portfolio of the student's art work must accompany the application. Students accepted into the professional program must complete 15 credits of 300-level studio courses with at least 6 of the 15 credits in one sequential studio area and 6 12 credits of art history before enrolling in Art 490 and Art 495. Students must maintain a minimum GPA of 2.5 and receive a grade of C or better in the 300- and 400-level art courses. Students may reapply for entry into the professional program any semester after their sophomore year.

Required course work includes the university requirements (see regulation J-3), the art core, and a studio emphasis (all the 200-level and 300-level courses in a specific studio area) in one of the following areas: drawing, graphic design, interface design, painting, textile design, sculpture, printmaking, or ceramics, and: . . .

~~History elective selected from Arch 385 or 386, Comm 382 or 384, Comm 445, FCS 329, ID 281 or 282, LArc 389, Phil 421 (3 cr)~~

200-level studio courses selected from the following (15-18 cr): . . .

300-level studio courses selected from the following (at least 6 cr must be taken in one sequential studio area, e.g., Art ~~391-392~~ 311-312) (15 cr): . . .

#### ART (B.A.) . . .

~~Art 207 Survey of Western Art: Ancient to Medieval (3 cr)~~

~~Art 208 Survey of Western Art: Renaissance to Modern (3 cr)~~

~~History elective selected from Arch 385 or 386, Comm 382 or 384, Comm 445, FCS 329, ID 281 or 282, LArc 389, Phil 421 (3 cr)~~

300-level studio courses selected from the following (at least 6 cr must be taken in one sequential studio area, e.g., Art ~~391-392~~ 311-312) (12 cr) . . .

#### ART EDUCATION (B.S.Art Ed.) . . .

200-level studio courses selected from the following (students pursuing a studio emphasis in graphic design must include Art 222; and interface design majors must include Art 272) (~~15~~ 18 cr): . . .

300-level studio courses selected from the following (at least 6 cr must be taken in one sequential studio area, e.g., Art ~~391-392~~ 311-312) (12 cr): . . .

~~ED 301 Principles of Learning and Development in Education (3 cr)~~

~~ED 401 Professional Role Development (3 cr)~~

~~ED 431 or ED 431 and EDTE 435 Practicum (14 cr)~~

~~ED 445 Proseminar in Teaching (3 cr)~~

~~EDTE 479 Secondary School Art Methods (3 cr)~~

~~EDTE 436 Secondary Art Methods I (2 cr)~~

~~EDTE 446 Secondary Art Methods II (2 cr)~~

~~Psyc 305 or ED 312 Developmental or Educational Psychology (2-3 cr)~~

~~EDTE 485 Internship (14-28 cr)~~

#### ART MINOR . . .

~~Art 110 Visual Communication (2 cr)~~

200- and 300-level art studio classes and/or art history (9 cr)

## BIOLOGICAL & AGRICULTURAL ENGINEERING

1. Add: **New subject prefix of 'BAE'** (Biological and Agricultural Engineering).
2. **Change the prefixes on all AgE and BSyE courses to a common prefix of 'BAE'**. Eliminate all duplicate courses.
3. Add: **BAE 534 Applied Bioremediation (3 cr)**. Same as EnvE 535. Application of theory and design learned in prerequisite BAE 433/533 including conducting treatability studies, transport and fate modeling in the subsurface, and hydrologic testing. Students required to complete laboratory, numerical modeling, and field-testing modules in addition to a subsurface modeling project. Prereq: BAE 433/533.
4. Add: **BAE 553 Land Surface Hydrology (3 cr)**. Physical transport processes within the hydrologic cycle that govern exchanges of mass (water), heat, energy, and momentum between the land surface and the atmosphere. Includes evapotranspiration modeling. Prereq: Fluid Mechanics, Calculus, and either CE 325 or BAE 355. **[Fall 2002]**

5. Change the curriculum of: **Agricultural Engineering (B.S.Ag.E.)**  
 Change the prefixes on all AgE courses and all BSYE courses to the prefix of BAE  
[AgE 143 Engineering Problem Solving or eC](#) Computer science elective in a programming language (2 cr)  
[Biol 201 Introduction to the Life Sciences \(4 cr\)](#)  
[Biol 112 Biological Principles & Mechanisms \(4 cr\)](#)
6. Change the curriculum of: **Biological Systems Engineering (B.S.B.Sy.E.)**  
 Change the prefixes on all AgE courses and all BSYE courses to the prefix of BAE  
[BSyE 143 Engineering Problem Solving or eC](#) Computer science elective in a programming language (2 cr)  
[Biol 201 Introduction to the Life Sciences \(4 cr\)](#)  
[Biol 112 Biological Principles & Mechanisms \(4 cr\)](#)

## BIOLOGICAL SCIENCES

### Course Number Changes:

1. **Biol 100 102 Introduction to Biology and Society** (4 cr). *May be used as core credit in J-3-b.* Not open to majors or for minor cr. ~~Intro to basic p~~Principles of biological systems ~~and their relationship to social issues.~~ Three lec and one 3-hr lab a wk.
2. **Biol 331 314 General Ecology and Population Biology** (3 4 cr) (C). ~~Basic ecological principles and processes affecting the nature and occurrence of populations, communities, and biomes. Three 1-day (Saturday) field trips~~ [Nutrient cycling and energy flow, populations, population genetics, use and construction of phylogenies, communities and biodiversity.](#) Prereq: Biol ~~201~~ [112](#), and Math 143 or 160 or 170, and Biol ~~202 or 203~~; [Biol 210 recommended.](#) (*Note: Students who have taken Biol 201 will satisfy the prereq for Biol 112*)
3. **Biol 351 210 General Genetics** (3 4 cr). ~~Same as Gene 314.~~ [Mendelian Genetics.](#) Genetic mechanisms in animals, plants, and microorganisms. Prereq: Biol ~~201~~ [112.](#) (*Note: Students who have taken Biol 201 will satisfy this prereq*)
4. ~~Bot 241~~ **Biol 341 Systematic Botany** (3 cr). Classification and identification of flowering plants; local flora. Two 1-hr lec and two 2-hr labs a wk; four 1-day field trips. Prereq: Biol ~~203 or perm~~ [111 and 112.](#) (*Note: Students who have taken Biol 203 will satisfy this prereq*)
5. ~~Bot Biol~~ **Biol 311 Plant Physiology** (4 cr). ~~Functions of plant growth and development~~ [Study of the physiology of plant tissues.](#) Three lec and one 3-hr lab a wk. Prereq: Biol ~~203~~ [213](#), and Chem 275 or 277. (*Note: Students who have taken Biol 203 will satisfy the prereq for Biol 213*)
6. ~~Bot Biol~~ WS-J406/WS-J506 **Microtechnique** (4 cr). WSU Bot 406/506.
7. ~~Bot Biol~~ WS-J417 [413](#)/WS-J517 [513](#) **Stress Physiology of Plants** (3 cr). WSU Bot 417/517.
8. ~~Bot Biol~~ WS-J435 [415](#)/WS-J545 [515](#) **Plant Environmental Biophysics** (2 cr). WSU ES/RP and SoilS 414/514.
9. ~~Bot Biol~~ WS-J436/WS-J546 **Plant Environmental Biophysics Lab** (1 cr). WSU ES/RP and SoilS 415/515.
10. ~~Bot Biol~~ WS450 [440](#) **Introduction to Cell Biology** (3 cr). WSU GenCB 450.
11. ~~Zool Biol~~ **Biol 120 Human Anatomy** (4 cr). Study of the ~~skeletal, muscular, nervous, circulatory, respiratory, urinary, digestive, endocrine, and reproductive systems of the human body with primary emphasis on~~ anatomy [of the major organ systems of the human body](#); lab consists of studying human gross anatomy models and prosected cadavers. Three lec and one 3-hr lab a wk.
12. ~~Zool Biol~~ **Biol 121 Human Physiology** (4 cr). Study of the ~~basic~~ physiology of the ~~skeletal, muscular, nervous, circulatory, respiratory, urinary, digestive, endocrine, and reproductive~~ [major organ](#) systems of the human body. Three lec and one 3-hr lab a wk. Prereq: ~~Zool Biol~~ [Biol 120.](#) (*Note: Students who have taken Zool 120 will satisfy the prereq for Biol 120*)
13. ~~Zool Biol~~ **Biol 324 Comparative Vertebrate Anatomy** (4 cr). General vertebrate anatomy and evolutionary changes in organ systems. Two lec and two 3-hr labs a wk. Prereq: Biol ~~202 and junior standing~~ [111 and 213.](#) (*Note: Students who have taken Biol 202 will satisfy the prereq for Biol 111 and 213*)
14. ~~Zool Biol~~ ID-J411 [450](#)/ID-J511 [550](#) **Comparative Vertebrate Reproduction** (3 cr). WSU Zool 451/551. Physiology of major events in reproductive cycles of vertebrates ~~with emphasis on nonmammalian vertebrates.~~ ~~Cr earned in Zool 511 by completion of~~

additional reading in journals, take home exam with each hr exam, and term paper [Additional project reqd for grad cr.](#) Prereq: Biol [202 111 and 213.](#) (*Note: Students who have taken Biol 202 will satisfy this prereq*)

15. **Zool Biol ID&WS-J417/ID&WS-J517 Endocrine Physiology** (3 cr). See AVS J451/J551.
16. **Zool Biol J423/J523 Comparative Vertebrate Physiology** (4 cr). Comparative physiology of the major organ systems found in vertebrates. ~~Credit earned in Zool 523 by completion of a~~ [Additional projects/assignments reqd for grad cr.](#) May involve some evening exams. Prereq: Biol [202 213,](#) and Chem 275 or 277. (*Note: Students who have taken Biol 202 will satisfy the prereq for Biol 213*)
17. **Zool Biol ID427 Vertebrate Histology and Organology** (4 cr). WSU Zool 421. Microscopic anatomy of tissues and major mammalian organs. ~~Two Three~~ lec and ~~two~~ 3-hr labs a wk. Prereq: [Zool Biol 112 or 120 or Biol 202.](#) (*Note: Students who have taken Biol 202 or Zool 120 will satisfy this prereq*)
18. **Zool Biol ID&WS435 Limnology** (4 cr). WSU ES/RP and Zool 411. See Fish 415.
19. **Zool Biol ID-J461/J561 Neurobiology** (3 cr). WSU Neuro 461. Study of the nervous system, with an emphasis on ~~the basic~~ [mechanics](#) ~~mediions~~ of neuronal signaling, the function of sensory ~~and motor~~ systems, and neural development. ~~Cr earned in Zool 561 by completing a thorough review (summary and critique) of a recent research paper and preparing a brief oral presentation on a topic distinct from that of the term paper~~ [Additional project reqd for grad cr.](#) Prereq: Biol [202 213;](#) Phys 111-~~112,~~ and Chem 275 or 277 ~~and 372~~ are recommended. (*Note: Students who have taken Biol 202 will satisfy the prereq for Biol 213*)
20. **Zool Biol J472 474/J572 574 Principles of Developmental Biology** (3 cr). Analysis of ~~developmental and regulatory~~ mechanisms at cellular and molecular level during ~~embryogenesis~~ [metazoan development.](#) ~~Cr earned in Zool 572 by completion of additional reading, take home exam, and term paper~~ [Additional project reqd for grad cr.](#) Prereq: Biol [202 111 and 212.](#) (*Note: Students who have taken Biol 202 and 203 will satisfy this prereq*)
21. **Zool Biol 478 Animal Behavior** (3 cr). Evolution, causation, development, and function of behavior in vertebrates and invertebrates. Prereq: Biol [202 111 and 112.](#) (*Note: Students who have taken Biol 202 will satisfy the prereq for Biol 111 and 112*)
22. **Zool Biol J481/J581 Ichthyology** (4 cr). ~~Zool Biol 481 same as Fish 411.~~ Anatomy, taxonomy, physiology, ~~distribution, and ecological relationships~~ [genetics, and zoogeography](#) of fishes. ~~Cr earned in Zool 581 by completion of an additional research paper or~~ [Additional project reqd for grad cr.](#) Three lec and one 3-hr lab a wk; one half-day field trip. Prereq: Biol [202 111 and 112.](#) (*Note: Students who have taken Biol 202 will satisfy this prereq*)
23. **Zool Biol 483 Natural History of Mammals Mammalogy** (3 cr). Evolution, systematics, distribution, and biology of mammals. Two lec and one 3-hr lab a wk; one field trip. Prereq: Biol [202 111 and 112.](#) (*Note: Students who have taken Biol 202 will satisfy this prereq*)
24. **Zool Biol J484/J584 Invertebrate Zoology** (4 cr). Morphology of freshwater, marine, and terrestrial invertebrates and phylogeny of major groups. ~~Cr earned in 584 by completion of extra project requiring a report~~ [Additional project reqd for grad cr.](#) Three lec and one 3-hr lab a wk. Prereq: Biol [202 111 and 112.](#) (*Note: Students who have taken Biol 202 will satisfy this prereq*)
25. **Zool Biol 494 Insect Anatomy and Physiology** (4 cr). See Ent J484/J584.
26. **Zool 497 Biol 493 Practicum in Physical Therapy** (1 cr, max 4). Minimum of two hrs a wk of practical experience in a PT clinic. ~~Graded P/F.~~ Prereq: Jr standing in pre-PT or related studies and perm of UI allied health advisor.

#### Dropped Biology Courses:

1. **Biol 101 Perspectives in Biology** (1 cr).
2. **Biol 201 Introduction to the Life Sciences** (4 cr). *May be used as core credit in J-3-b. . .*  
(*Recommended Substitution: Biol 112 Biological Principles & Mechanisms*)
3. **Biol 202 General Zoology** (4 cr).  
(*Recommended Substitution: Biol 111 Evolution & Diversity of Life AND Biol 213 Prin. of Biological Structure & Function*)
4. **Biol 352 Experimental Genetics** (2 cr).  
(*Recommended Substitution: Biol 354 Experimental Approaches in the Biological Sciences*)
5. **Biol 353 Introduction to Molecular Biology** (3 cr).  
(*Recommended Substitution: Biol 212 Molecular and Cellular Biology*)
6. **Biol 355 Genetics Laboratory** (1 cr).
7. **Biol 442 Biological Evolution** (3 cr).  
(*Recommended Substitution: Biol 421 Advanced Evolution/Population Dynamics*)

Dropped Botany Courses:

1. **Bot 203 General Botany** (4 cr). Same as Biol 203. . .  
(*Recommended Substitution: Biol 203 General Botany*)
2. **Bot 364 Botany Microtechniques** (3 cr).
3. **Bot 398 (s) Internship** (1-3 cr, max 3).  
(*Recommended Substitution: Biol 398 Internship*)
4. **Bot ID-J414/ID-J514 Evolutionary Biology of Plants** (3 cr).  
(*Recommended Substitution: Biol 421 Advanced Evolution/Population Dynamics*)
5. **Bot J425/J525 Developmental Plant Anatomy** (3 cr).  
(*Recommended Substitution: Biol 474/574 Principles of Developmental Biology*)
6. **Bot J432/J530 Plant Ecology** (3 cr).  
(*Recommended Substitution: Biol 431 Landscape & Community Ecology*)
7. **Bot ID441 Agrostology** (3 cr). WSU Bot 441. . .
8. **Bot 452 Principles of Plant Molecular Biology** (3 cr).
9. **Bot 499 (s) Directed Study** (cr arr).

Dropped Zoology Courses:

1. **Zool 202 General Zoology** (4 cr).  
(*Recommended Substitution: Biol 111 Evolution & Diversity of Life AND Biol 213 Prin. of Biological Structure & Function*)
2. **Zool 398 (s) Internship** (1-3 cr, max 3).  
(*Recommended Substitution: Biol 398 Internship*)
3. **Zool J414/J514 Cell Physiology** (3 cr).  
(*Recommended Substitution: MMBB 475/575 Molecular Biology of Cells*)
4. **Zool 473 Comparative Embryology Lab** (1 cr).
5. **Zool 482 Natural History of Birds** (3 cr).  
(*Recommended Substitution: Wlf 482 Ornithology*)
6. **Zool 499 (s) Directed Study** (cr arr).

Add New Biology Courses:

1. **Biol 111 Evolution and Diversity of Life** (4 cr). Evolutionary relationships of organisms and major adaptations of organisms to their environment.  
(*Note: Currently seeking approval from UCGE to be used as Natural Science Core*)
2. **Biol 112 Biological Principles and Mechanisms** (4 cr). Overview of biological mechanisms including energy transactions, and structure, function of eukaryotic cells. Coreq: Chem 101 or 111.  
(*Note: Currently seeking approval from UCGE to be used as Natural Science Core*)
3. **Biol 212 Molecular and Cellular Biology** (4 cr). Information flow within the cell, from DNA to proteins, basic molecular techniques, cellular architecture and cellular processes. Prereq: Biol 112. (*Note: Students who have taken Biol 201 will satisfy this prereq*)
4. **Biol 213 Principles of Biological Structure and Function** (4 cr). Principles of physiology in plants and animals (homeostasis, hormonal and neural control systems, organismal physiology). Prereq: Biol 112. (*Note: Students who have taken Biol 201 will satisfy this prereq*)
5. **Biol 354 Experimental Approaches in the Biological Sciences** (2 cr). Experimental analysis of biological systems. Prereq: Biol 210, 212, and 213, or perm.
6. **Biol 411 Senior Capstone** (2 cr). Application of biological principles and information to the analysis of societal and philosophical issues. Prereq: Biol 210, 212, 213, 214, and senior standing.
7. **Biol 421 Advanced Evolution/Population Dynamics** (3 cr). Macro and Micro evolutionary patterns and processes examined from molecular, ecological, and paleontological perspectives. Prereq: Biol 314. (*Note: Students who have taken Biol 331 will satisfy this prereq*)
8. **Biol 425 Special Topics: Experimental Field Ecology** (3 cr). Intensive course on diverse aspects of field ecology to be held off-campus. Various global locations (i.e. Costa Rica, Oregon coast, Hawaii) are possible. The course will be scheduled during an 8-10 day period preceding/following the Spring Term (i.e. January or May). Will involve travel and lodging costs at student expense. Prereq: Biol 111, 210, 212, 213, and 314. (*Note: Students who have taken Biol 331 and 351 will satisfy this prereq*)

9. **Biol 431 Landscape and Community Ecology** (3 cr). Course will focus on the relationships between spatial patterns found in ecosystems and ecological processes, and the effects of disturbances on landscape patterns. Prereq: Biol 314. (*Note: Students who have taken Biol 331 will satisfy this prereq*)
10. **Biol 495 Research in Molec/Cell/Dev Biology** (cr arr). Directed research in faculty laboratory. Prereq: Perm.
11. **Biol 496 Research in Ecology and Evolution** (cr arr). Directed research in faculty laboratory. Prereq: Perm.
12. **Biol 497 Research in Anatomy and Physiology** (cr arr). Directed research in faculty laboratory. Prereq: Perm.

#### Undergraduate Curriculum Change:

##### 1. Change curricula of: **Department of Biological Sciences**

The biological sciences deal with the basic biological principles of all living things ~~with major emphasis on both plant and animal forms.~~

The Department of Biological Sciences offers ~~several undergraduate curricular options in botany, zoology, and biology~~ an integrated degree in Biology. ~~Though all curricula~~ The Biology core curriculum involves exposure to concepts fundamental to ~~plants and animals, all living things at several levels of organization;~~ degrees in zoology and botany upper-division electives allow students to emphasize natural history, anatomy/physiology, molecular/cellular/developmental, or quantitative/integrative biology ~~course work dealing with animals and plants, respectively. All curricula are designed to introduce the undergraduate to modern molecular approaches to the life sciences as well as more classical approaches.~~

The department offers ~~both~~ B.A. and B.S. degrees in biology, ~~botany, and zoology~~. Graduates from the department traditionally enter a variety of fields and many continue their education. Recent graduates have entered allied and public health professions, agribusiness, medical school, veterinary school, graduate school, law school, state and national agencies that deal with biology (e.g., forestry and fish and game departments, EPA), as well as a variety of environmental consulting agencies and biotechnology companies.

~~Graduate and undergraduate research concentrations are available in~~ Faculty and facilities are available to teach and conduct research in ~~animal and plant ecology, ecology and evolution (animal behavior, genetics, microbial ecology, systematics), medical biosciences (aging, development, neurobiology, physiology), and reproductive biology (development, endocrinology, fertility); comparative, cellular, and organ physiology, plant physiology, aquatic biology, evolutionary biology of fishes, birds, mammals, and bacteria, systematic biology, developmental plant anatomy, vertebrate aging, vertebrate behavior, and genetics.~~ For more specific information on research concentrations, please see faculty profiles on the department website.

The department offers Ph.D. and M.S. degrees in botany and zoology. ~~a~~ A nonthesis graduate degree, the M.Nat.Sc., which is designed to increase the breadth and depth of understanding of biology and is designed primarily for secondary teachers, is. ~~The M.S. and Ph.D. degrees in botany and zoology are~~ also offered.

~~Graduate concentrations are offered in animal behavior, animal anatomy, animal ecology, aquatic biology, comparative physiology, developmental plant anatomy, genetics, plant ecology, plant physiology, plant and mammalian systematics, reproductive physiology, cell physiology, neurobiology, pesticide biology, microbial evolution, aging, and vertebrate sexual plasticity.~~

Admission to graduate programs in the department is based upon an estimate of probable success in work leading to a specific degree program. The Graduate Record Examination (aptitude only) is required of all applicants. Students with any questions should call the department chair at (208) 885-6280.

#### **Courses**

See part 6 for courses in Biology (Biol), Botany (Bot), and Zoology (Zool).

#### **Undergraduate Curricular Requirements**

##### **BIOLOGY (B.A. or B.S.)**

Required course work includes the university requirements (see regulation J-3), the general L&S requirements for either the B.A. or B.S. degree, and the following (electives to be chosen in consultation with the departmental advisor):

~~Biol 101 Perspectives in Biology (1 cr) ---~~

~~Plus 18 credits in the following two sets of courses, including at least 8 credits from Set A (18 cr):~~

~~Set A: ---~~

~~Set B: ---~~

Biol 111 Evolution and Diversity of Life (4 cr)

Biol 112 Biological Principles and Mechanisms (4 cr)

Biol 210 Genetics (4 cr.)

Biol 212 Molecular and Cellular Biology (4 cr)

Biol 213 Principles of Biological Structure and Function (4 cr)

[Biol 314 Ecology and Population Biology \(4 cr\)](#)  
[Biol 411 Senior Capstone \(2 cr\)](#)  
[Chem 111 Principles of Chemistry I \(4 cr\)](#)  
[Chem 112 Principles of Chemistry II \(5 cr\)](#)  
[Chem 275/276 Carbon Compounds and Lab or Chem 277/278 Organic Chemistry and Lab \(4 cr\)](#)  
[MMBB 380 Introductory Biochemistry or MMBB 300 Survey of Biochemistry \(3-4 cr\)](#)  
[Math 143 Pre-calculus Algebra and Analytic Geometry \(3 cr\)](#)  
[Stat 251 Principles of Statistics \(3 cr\)](#)  
[Phys 111-112 General Physics I-II \(8 cr\)](#)

(NOTE: Students considering graduate school in biology are strongly encouraged to take Math 160, Chem 277/278, and MMBB 380.)

Plus 12 credits of approved electives from the following list (categories are intended only as a guide for student and advisor use):

**Natural History**

[Biol 341 Plant Systematics](#)  
[Biol 478 Animal Behavior](#)  
[Biol 481 Ichthyology](#)  
[Biol 483 Mammalogy](#)  
[Biol 484 Invertebrate Zoology](#)  
[Ent 440 Insect Identification](#)  
[WLF 482 Ornithology](#)

**Anatomy/Physiology**

[Biol 311 Plant Physiology](#)  
[Biol 324 Comparative Vertebrate Anatomy](#)  
[Biol 423 Comparative Vertebrate Physiology](#)  
[Biol 427 Vertebrate Histology and Organology](#)  
[Biol 450 Comparative Vertebrate Reproduction](#)  
[Ent 484 Insect Anatomy and Physiology](#)  
[PISc 405 Plant Pathology](#)  
[MMBB 460 Microbial Physiology](#)

**Quantitative/Integrative Biology**

[Biol 421 Advanced Evolution/Population Dynamics](#)  
[Biol 425 ST: Experimental Field Ecology](#)  
[Biol 431 Landscape and Community Ecology](#)  
[Ent 441 Insect Ecology](#)  
[Math 437 Mathematical Biology](#)  
[MMBB 425 Microbial Ecology](#)  
[WLF 440 Conservation Biology](#)  
[WLF 441 Behavioral Ecology](#)  
[WLF 448 Fish and Wildlife Population Ecology](#)

**Molecular/Cellular/Developmental (MCD) Biology**

[Biol 354 Experimental Approaches in the Biological Sciences](#)  
[Biol 461 Neurobiology](#)  
[Biol 474 Principles of Developmental Biology](#)  
[MMBB 409 Immunology](#)  
[MMBB 440 Advanced Lab Techniques](#)  
[MMBB 475 Molecular Biology of the Cell](#)  
[MMBB 488 Genetic Engineering](#)

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.

**BOTANY (B.A. or B.S.) . . .**

**ZOOLOGY (B.A. or B.S.) . . .**

**PRE-MEDICAL AND PRE-DENTAL STUDIES**

Admission to schools of medicine or dentistry involves satisfactorily fulfilling prerequisite course work, obtaining a sufficiently high score on the Medical College Admission Test (MCAT) or Dental Admission Test (DAT), . . .

Students with interests in either the M.D., or D.D.S., or D.M.D. degree are urged to contact [Professor](#) Rolf Ingermann, Gibb 237, [during their first semester at the university as early as possible.](#)

NOTE: pre-medical and pre-dental students are strongly encouraged to take Chem 277/278.

### PRE-NURSING STUDIES

Admission to a school of nursing involves meeting satisfactorily its entrance requirements, acceptable scholastic records or a satisfactory score on the nursing admission test, and possession of personal qualifications essential for effective nursing. ~~Requirements of the institution to which the student will transfer should be investigated by the student to ensure inclusion of courses that meet those requirements.~~ Nursing schools differ in their prerequisites. Students should investigate the requirements of their school of choice.

The following two-year program is suggested for students who plan to transfer to a school of nursing. . . .

~~Zool Biol~~ 120 Human Anatomy (4 cr)

~~Zool Biol~~ 121 Human Physiology (4 cr)

### PRE-PHYSICAL THERAPY STUDIES

UI does not have a professional program in physical therapy and does not offer a degree program in pre-physical therapy. Students can, however, take courses that are prerequisites for admission into bachelor's, certificate, ~~or~~ master's, or doctoral degree programs in physical therapy at other institutions. Completion of these prerequisites does not guarantee acceptance into a physical therapy program and these classes are not necessarily a part of a degree program at UI. Consequently, we strongly urge students to pursue a B.S. or B.A. degree in ~~an allied a related~~ area (such as biology, psychology, or sport science, ~~and the like~~) while completing the prerequisites for admission to a physical therapy degree program. Students applying as pre-physical therapy majors will be temporarily placed in the biology major. The pre-physical therapy advisor in the Department of Biological Sciences advises students interested in preparing to enter into a professional program at another institution. Three basic plans of study at UI can lead to qualification for admission to a professional program in physical therapy: (1) graduation from UI with a bachelor's degree in some allied related area and application to a master's degree program at some other institution, (2) graduation with a bachelor's degree in some allied related area and application to a certificate program at some other institution, or (3) completion of the physical therapy prerequisites after two to three years of study at UI and subsequent application and transfer to a bachelor's degree program in physical therapy at some other institution. However, competition for all degree programs in physical therapy is very keen intense and most successful applicants, even to bachelor programs in physical therapy, already have a bachelor's degree in an allied area. Consequently, although we recommend the following classes for completion of the physical therapy prerequisites for most master, certificate, or bachelor programs, students must enroll at UI in a traditional bachelor's degree program ~~in some allied area~~.

### Recommended Preparation

~~The courses listed below include most of the essential courses for transfer into a typical program. . . .~~

The master's program in physical therapy at Idaho State University, Idaho's only physical therapy program, is required by law to fill most of its program with Idaho residents. Consequently, Idaho residents have a competitive advantage in applying to this program. In addition to completing an undergraduate degree, the successful applicant must have completed the following list of prerequisite courses for the Idaho State University program. Students interested in the prerequisite courses for other programs should contact Professor Rolf Ingermann.

### Prerequisite Courses (with a GPA of 3.0 in each category):

#### Biology (3 courses)

Courses 1 & 2: Biol 120 Human Anatomy and Biol 121 Human Physiology

Course 3: Upper-division course, 3 cr minimum (Lab only course will NOT be accepted. Courses in plant biology or evolution will NOT be accepted)

#### Chemistry (2 courses)

Chem 111 and Chem 112 Introductory Chemistry with laboratory

#### Physics (2 courses)

Phys 111 and Phys 112 Introductory Physics with laboratory

#### Math/Statistics (1 course)

Stat 251 Principles of Statistics

#### Psychology and Sociology or Anthropology or Health Science (2 courses)

Course 1: Psych 101 Introductory Psychology

Course 2: Sociology or Anthropology or Health Science or Psychology. (This course must be relevant to health care, rural societies, cultural diversity, aging, health care administration, abnormal psychology or epidemiology. Marriage/family, religion or history courses will not meet this requirement.)

### Academic Minor Requirements

#### BIOLOGY MINOR

~~Biol 201 Introduction to the Life Sciences (4 cr)~~

~~Biol 202 General Zoology (4 cr)~~

~~Biol 203 General Botany (4 cr)~~

~~Biol 331 General Ecology (3 cr)~~

~~Biol 351 General Genetics (3 cr)~~

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

~~Bot 311 Plant Physiology~~

~~Zool 120 Human Anatomy~~

~~Zool 414 Cell Physiology~~

~~Zool 423 Comparative Vertebrate Physiology~~

Biol 111 Evolution and Diversity of Life (4 cr)

Biol 112 Biological Principles and Mechanisms (4 cr)

Biol 210 Genetics (4 cr)

Biol 212 Molecular and Cellular Biology (4 cr)

Biol 213 Principles of Physiology (4 cr)

Biol 314 Ecology and Population Biology (4 cr)

## ~~BOTANY MINOR~~

## ~~ZOOLOGY MINOR~~

### Graduate Degree Programs

Candidates must fulfill the requirements of the College of Graduate Studies and of the Department of Biological Sciences. See the College of Graduate Studies section of part 4 for the general requirements applicable to each degree.

**Doctor of Philosophy.** Major in botany or zoology. The Ph.D. program emphasizes research. In addition to the requirements listed above, admission is based upon the compatibility of the student's research interests with the areas of concentration offered by the department, and the availability of a faculty member to be the student's mentor.

**Master of Science.** Major in botany or zoology. The M.S. program emphasizes research. In addition to the requirements listed above, admission is based upon the compatibility of the student's research interests with the areas of concentration available in offered by the department and the availability of a faculty member to be the student's mentor.

**Master of Natural Science.** Major in biological sciences. This program is intended primarily for students who . . .

~~**Doctor of Philosophy.** Major in botany or zoology. In addition to the general requirements, the department has a requirement for a foreign language or a specified level of skill in computer science. The decision as to which requirement is most appropriate is left to the student's committee.~~

## BUSINESS

1. Change coreqs of: **Bus 340 Team Building and Group Dynamics** (2 cr). Prereq: upper-division standing in CBE; BLaw 265; Math 160 or 170. Coreq: Bus 341, ~~and~~ Bus 342, Acct 310, and Econ 340.
2. Change coreqs of: **Bus 343 Planning and Decision Making in Organizations** (2 cr). Prereq: Bus 342. Coreq: Bus 344, ~~and~~ Bus 345, and Acct 311. Prereq or coreq: Engl 207, 208, 209, 313, or 317.
3. Change credits of: **Bus 345 Business Operating Decisions** (~~4~~ 3 cr).
4. Add: **Bus 351 Introduction to Electronic Commerce** (3 cr). Introduction to the economic, technology and management of e-commerce. Discussion of economic basis for e-commerce, business models, information technology, and management of technology related to the operation of an e-commerce business. May involve evening exams. Prereq: Acct 202 or 205.
5. Change prereqs of: **Bus 355 Systems Analysis and Design** (3 cr). ~~Prereq: Bus 250; Bus 350 OR pP~~ Prereq or coreq: Bus 343.
6. Change prereqs of: **Bus 453 Database Design** (3 cr). Prereq: Bus 250 and Bus 355.
7. Add: **Econ 340 Managerial Economics** (2 cr). This course covers the fundamental economic principles in applied business decisions from both micro and macroeconomic perspectives. Prereq: Econ 201 and 202, or Econ 272. Coreq: Bus 340.

8. Change curricular requirements of: **Information Systems (B.S.Bus.)**  
 Restricted electives: ~~two~~ one additional courses from the IS electives or from the following (6 ~~3~~ cr): . . .  
 Acct ~~381 Accounting for Mgrs and Investors~~ or 385 Cost and Mgt Accounting (~~not both~~)
  
9. Change curricular requirements of: **Production/Operations Management (B.S.Bus.)**  
~~Acct 381 Accounting for Mgrs and Investors~~ or ~~385 Cost and Management Accounting (3 cr)~~  
~~Two~~ Three courses selected from the following (6 ~~9~~ cr):  
Acct 385 Cost and Management Accounting  
Bus 398 Internship (must be taken for 3 cr to satisfy this requirement)
  
10. Change curricular requirements of: **Business Minor**  
 Acct 201 Introduction to Financial Accounting (3 cr) and Acct 202 Introduction to Managerial Accounting (3 cr), or Acct 205 Fundamentals of Accounting (4 cr)  
 Five of the following courses (or Bus 340-345) (15 cr) . . .  
 Bus 350 Management Information Systems or Bus 351 Introduction to Electronic Commerce

## CHEMISTRY

1. Change description of: **Chem 111 Principles of Chemistry I** (4 cr). *May be used as core credit in J-3-b.* Full credit may be earned in only one of the following: Chem 100, 101, or 111. Intensive treatment of principles and applications of chemistry. Three lec, ~~one recitation, and~~ one 3-hr lab, and one optional recitation a wk. Prereq: Chem 050 or adequate score on the chemistry fundamentals exam or satisfy departmental requirement.
  
2. Change credits and description of: **Chem 112 Principles of Chemistry II** (4 ~~5~~ cr). *May be used as core credit in J-3-b.* Continuation of Chem 111 ~~for students who do not plan to take further professional chemistry courses.~~ Some work in inorganic chemistry, organic, and biochemistry, kinetics, equilibrium, liquids, solids, acid-base, electrochemistry, nuclear chemistry, thermodynamics, and ~~in~~ qualitative inorganic analysis. Max six cr in Chem 112 and 113 combined. Three lec, one recitation, and one 3-hr lab a wk. Prereq: Chem 111 or perm.
  
3. Drop: **Chem 113 Inorganic Chemistry and Qualitative Analysis** (5 cr). *May be used as core credit in J-3-b.* . .
  
4. Change department curricular requirements as follows:  
**CHEMISTRY: GENERAL (B.S.)**  
Chem 112 Principles of Chemistry II (5 cr)  
~~Chem 113 Inorganic Chemistry and Qualitative Analysis (5 cr)~~  
**CHEMISTRY: PROFESSIONAL (B.S.)**  
Chem 491 Research (1 cr)  
**CHEMISTRY MINOR**  
Chem 112 Principles of Chemistry II (5 cr)  
~~Chem 113 Inorganic Chemistry and Qualitative Analysis (5 cr)~~

## CIVIL ENGINEERING

1. Add: **CE 493-494 Senior Design Project** (1-3 cr, max 4 cr). One or two semester comprehensive civil engineering design project. Requires integration of skills acquired in civil engineering elective courses, written reports and oral presentations. Prereq: Sr standing in Civil Engr and perm.

## COLLEGE OF BUSINESS AND ECONOMICS

1. Change college curricular requirements as follows:  
**B. CBE COMMON PROGRAM REQUIREMENTS:**  
Acct 310 Accounting for Business Decisions I (2 cr)  
Acct 311 Accounting for Business Decisions II (2 cr)  
 Bus 340 Team Building and Group Dynamics (2 cr)  
 Bus 341 Business Systems (4 cr)

- Bus 342 Product and Process Planning (3 cr)
- Bus 343 Planning and Decision-Making in Organizations (2 cr)
- Bus 344 Managing the Firm's Resources (3 cr)
- Bus 345 Business Operating Decisions (4 cr)
- Bus 490 Strategic Management (3 cr)
- Econ 340 Managerial Economics (2 cr)
- Upper-division economics electives (3 cr)

## COLLEGE OF EDUCATION

1. Drop the following courses:
  - **ED 312 Educational Psychology** (2 cr). (*Recommended substitution: ED 301 Prin of Learning & Devel in Educ*)
  - **ED 313 Educational Measurement** (1 cr).
  - **ED 314 Strategies for Teaching** (3 cr). (*Recommended substitution: ED 302 Curric/Instruction/Asmt Strategies*)

2. Change college curricular requirements as follows:

### Secondary School Teaching Certification for Majors Outside the College of Education

Students admitted to Teacher Education Programs who are enrolled in an academic department other than education normally satisfy the requirements for the Idaho Standard Secondary School Certificate by including the core listed below as electives in their program for the baccalaureate degree and by completing one of the following options: (1) ~~one 60-credit teaching major;~~ (2) one ~~40~~ 45-credit teaching major ~~and one 20-credit teaching minor;~~ (3) ~~or (2)~~ one 30-credit teaching major and one 20-credit teaching minor; ~~or (4) two 30-credit teaching majors.~~ (See "Teaching Majors and Minors" at the conclusion of the College of Education section.)

### General Requirements for Graduation

**University Requirements.** See regulation J in part 3 for . . .

**College Requirements.** All candidates for a baccalaureate degree in the College of Education must complete 128 semester credits, of which at least 36 must be in upper-division courses. The following college requirements apply to all undergraduate teacher education students in the college (see the major curricula in dance, office administration, recreation, sport science, technology, and vocational education for the special requirements applicable to those programs):

A. **GENERAL STUDIES REQUIREMENTS FOR ELEMENTARY SCHOOL TEACHING** (~~57~~ 53-54 credits minimum). In order to apply toward this requirement, courses must be other than education and be selected from among the humanities, social sciences, and natural sciences. Credits earned in these fields to satisfy the teaching minor may apply if they do not deal primarily with the methodology, procedures, or materials of teaching. Each of the following areas must be represented as indicated:

1. **Communications** (8 credits) (prerequisite basic skills for writing), including essay writing (Engl 102), advanced composition (Engl 207, 208, 209, 291, 292, 309, 313, 317, 401), and speech (Comm 101). The UI core curriculum requires Engl 102 and 2-4 credits from the core list.
2. **Humanities** (~~40~~ 7 credits), including 6 3 credits of literature, 2 credits of art, and 2 credits of music selected from nonmethods courses. Three additional credits of composition, excluding Engl101, or literature are required for certification (12 total credits of English) and should be selected in consultation with an advisor. Six to eight credits should be selected from the core curriculum humanities list.
3. **Psychology** (6 3 credits), including ~~introductory psychology (Psyc 101), and a~~ developmental psychology course (Psyc 305). Psyc 101 is a prerequisite for some developmental psychology courses.
4. **Social Science** (12 credits), including Hist 101 or 102, ~~one course in American history (Hist 111 or 112), one course in American government (PolS 101),~~ and 6 other credits from social sciences (other than psychology). ~~Three to five~~ of which three credits must be from the UI core curriculum list.

A total of 13-14 credits must be from the humanities and social science core list categories.

5. **Science** (12 credits), including biological, earth, and physical science courses requiring laboratory work. Select 4 credits each from the areas of (a) life sciences, (b) earth sciences, and (c) physical sciences. Intr 103 is required and substitutes for either an earth or physical science. At least 7-8 credits must be from the UI core curriculum list in natural and applied sciences.

6. *Mathematics (9 credits)*: Math 235-236, Math for Elementary Teachers I-II, and Math ~~137 or~~ 143 (refer to prerequisites for Math 235-236).

B. GENERAL STUDIES REQUIREMENTS FOR SECONDARY SCHOOL TEACHING (~~34~~ 31 credit minimum). In order to apply toward this requirement, courses must be other than education and be selected from among the humanities, social sciences, and natural sciences. Credits earned in these fields to satisfy the teaching major or teaching minor may apply if they do not deal primarily with the methodology, procedures, or materials of teaching. Each of the following areas must be represented as indicated:

1. Communications (8 credits) (prerequisite basic skills for writing), including essay writing (Engl 102), advanced composition (Engl 207, 208, 209, 291, 292, 309, 313, 317, 401), and speech. The UI core curriculum requires Engl 102 and 2-4 credits from the core list.

2. Humanities (6 credits), ~~including at least 3 credits of literature~~. The UI core curriculum requires that 6 to 8 credits be selected from the humanities category.

3. Psychology (3 credits): Psyc 101, Introduction to Psychology or Psyc 305 Developmental Psychology.

4. Social Science (6 credits), ~~including at least one course in American history (Hist 111 or 112) or American government (PolS 101)~~. ~~Three~~ Six credits must be selected from the UI core list in this category (~~other than psychology~~).

The UI core curriculum requires 13-14 credits in the combined categories of humanities and social sciences. ~~The core social science list includes Psyc 101.~~

5. Science-Mathematics (11 credits), including biological, earth, or physical science courses requiring laboratory work. The UI core curriculum requires 7-8 credits from natural and applied sciences and 3 credits of mathematics/statistics/computer science (Note: computer science core courses will not meet teacher education admission requirements).

3. Change description of: **ED 101 Orientation to the Teaching Profession** (1 cr). A dual credit course open to high school students. Provides prospective teachers with experiences in the K-12 educational environment and an examination of Prospective teachers examine current trends in education, school-based practices, and professional responsibilities of school personnel. Fulfills the 100 hr. College of Education public service requirement.

## COLLEGE OF NATURAL RESOURCES

1. Change the curriculum of: **B.S.Nat.Res.Ecol.Cons.Biol.**

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

~~Quantitative resource analysis restricted electives (two courses from the following) (5-6 cr) . . .~~

~~Resource management restricted electives (two courses from the following) (4-8 cr) . . .~~

And one of the following options:

### A. NATURAL RESOURCES ECOLOGY OPTION

To graduate in this option, students must achieve a "C" or better in the following seven core courses: Fish/For/Rnge/RRT/WLF 200, For 330, For 394, For ~~Rnge 404~~ 429, Rnge 459, Soil 205/206, WLF 448. . . .

~~For/Rnge 404 ST: 429~~ Landscape Ecology of Forests and Rangelands (2 cr)

~~WLF 448 Fish and Wildlife Population Ecology (4 cr)~~

Wlf 316 Wildlife Ecology II (4 cr.) OR Fish 316 Principles of Population Dynamics (2 cr)

### Quantitative Resource Analysis Restricted Electives (two courses from the following) (5-6 cr)

For 375 Airphoto Interpretation and Mapping (3 cr)

For 472 Remote Sensing of Environment (3 cr)

For 476 Forestry Project Evaluation (3 cr)

For 477 Integrated Forest Management Models (3 cr)

Geog 385 GIS Primer (3 cr)

Math 437 Mathematical Biology (3 cr)

Rnge 357 Rangeland and Riparian Habitat Assessment (3 cr)

Stat 401 Statistical Analysis (3 cr)

Stat 422 Sample Survey Methods (2 cr)

Stat/GeoE 428 Geostatistics (3 cr)

Wlf 448 Fish & Wildlife Population Ecology (4 cr.)

### Resource Management Restricted Electives (two courses from the following) (4-8 cr)

[Fish 418 Fisheries Management \(4 cr\)](#)  
[For 424 Silviculture II \(2 cr\)](#)  
[For 462 Watershed Management \(2 cr\)](#)  
[Rnge 354 Wildland Vegetation Management and Restoration \(3 cr\)](#)  
[Rnge 454 Rangeland Weed Management \(3 cr.\)](#)  
[Rnge 456 Integrated Rangeland Management \(3 cr\)](#)  
[RRT 385 Resource Recreation and Tourism Management \(3 cr\)](#)  
[RRT 484 Management of Recreation Sites and Leisure Settings \(2 cr\)](#)  
[RRT 490 Wilderness Management \(3 cr\)](#)  
[RRT 496 Monitoring Human Impacts in Wilderness \(3 cr\)](#)  
[WLF 445 Nongame Management \(2 cr\)](#)  
[WLF 492 Wildlife Management \(4 cr\)](#)

Ecology restricted electives (four courses from the following) (9-13 cr) . . .

Social/political restricted electives (two courses from the following) (5-6 cr) . . .

[WLF 493 Environmental Law \(2 cr\)](#)

### **B. CONSERVATION BIOLOGY OPTION**

To graduate in this option, students must achieve a "C" or better in the following eight core courses: Biol 442, Fish/For/Rnge/RRT/WLF 200, For ~~Rnge 404~~ [429](#), Gene 314, Phil 452, RRT 493, WLF 440, WLF 448. . . .

For ~~Rnge 404~~ [ST 429](#) Landscape Ecology of Forests and Rangelands (2 cr)  
[Wlf 316 Wildlife Ecology II \(4 cr.\)](#) **OR** [Fish 316 Principles of Population Dynamics \(2 cr.\)](#)

Quantitative Resource Analysis Restricted Electives (one course from the following) (3-4 cr)

[For 375 Airphoto Interpretation and Mapping \(3 cr\)](#)  
[For 394 Quantitative Resource Analysis \(3 cr.\)](#)  
[For 472 Remote Sensing of Environment \(3 cr\)](#)  
[For 476 Forestry Project Evaluation \(3 cr\)](#)  
[For 477 Integrated Forest Management Models \(3 cr\)](#)  
[Geog 385 GIS Primer \(3 cr\)](#)  
[Math 437 Mathematical Biology \(3 cr\)](#)  
[Rnge 357 Rangeland and Riparian Habitat Assessment \(3 cr\)](#)  
[Stat 401 Statistical Analysis \(3 cr\)](#)  
[Stat 422 Sample Survey Methods \(2 cr\)](#)  
[Stat/GeoE 428 Geostatistics \(3 cr\)](#)

Resource Management Restricted Electives (two courses from the following) (4-8 cr)

[Fish 418 Fisheries Management \(4 cr\)](#)  
[For 424 Silviculture II \(2 cr\)](#)  
[For 462 Watershed Management \(2 cr\)](#)  
[Rnge 354 Wildland Vegetation Management and Restoration \(3 cr\)](#)  
[Range 454 Rangeland Weed Management \(3 cr.\)](#)  
[Rnge 456 Integrated Rangeland Management \(3 cr\)](#)  
[RRT 385 Resource Recreation and Tourism Management \(3 cr\)](#)  
[RRT 484 Management of Recreation Sites and Leisure Settings \(2 cr\)](#)  
[RRT 490 Wilderness Management \(3 cr\)](#)  
[RRT 496 Monitoring Human Impacts in Wilderness \(3 cr\)](#)  
[WLF 445 Nongame Management \(2 cr\)](#)  
[WLF 492 Wildlife Management \(4 cr\)](#)

Ecology Restricted Electives 2 courses with (4 credit minimum) (4-7 cr) . . .

[For 330 Forest Ecosystem Processes \(3 cr.\)](#)

Organismal biology elective (one course from the following) (3-4 cr) . . .

~~Zoel Wlf 482~~ [Natural History of Birds](#) [Ornithology](#) (3 cr)

Social/political restricted electives (two courses from the following) (4-6 cr) . . .

[WLF 493 Environmental Law \(2 cr\)](#)

2. Add: **NR 505 Advanced GIS Applications in Wildlife Sciences** (1 cr). Advanced wildlife GIS applications focusing on spatial home range computations and habitat studies; accelerated. Prereq: GIS experience or perm.

## COMMUNICATION

1. Change title and description of: **Comm 265 Principles of Advertising and Society** (3 cr) (C). Survey of advertising practices and the role of advertising in American society, including effects on consumers; regulation, media, and advertising as a creative process.
2. Change title of the following courses:
  - **Comm 276 Intermediate Video/Television & Electronic/Digital Media Production**
  - **Comm 475 Advanced Video/Television & Electronic/Digital Media Thesis Production**
3. Change number of: **Comm ~~284~~ 484 Experiences in Visual Thinking** (3 cr).
4. Change number and prereq of: **Comm ~~323~~ 427 Public Affairs Reporting** (3 cr). Problems and practice in reporting the courts, government, politics, other public issues. Prereq: Comm 121, and 225, or perm.
5. Change number, description, and prereq of: **Comm ~~374~~ 322 Broadcast News** (3 cr). Techniques of gathering, writing, and producing Production and writing techniques for news for on radio, and television, and the internet. One lec and one lab a wk. Prereq: Comm 121 and 225, or perm.
6. Change number, title, description, and prereq of: **Comm ~~424~~ 324 News Editing and Production** (3 cr). News selection, evaluation, editing, and display. pagination and design for print and online media. Two lec and one lab a wk. Prereq: Comm 121, ~~222~~ and 225, or perm.
7. Drop: **Comm 360 Broadcast Media Advertising** (3 cr) and **Comm 362 Print Media Advertising** (3 cr)  
And combine into one new course: **Comm 361 Advertising Creativity** (3 cr). Advertising creative process in print, broadcast and online media, including copywriting and production processes and techniques. Prereq: Comm 265.
8. Drop: **Comm 441 Ethics in Mass Comm** (3 cr) and **Comm 448 Law of Mass Comm** (3 cr)  
And combine into one new course: **Comm 442 Communication Law and Ethics** (3 cr). Examination of First Amendment law and the ethical responsibilities of communication professionals.
9. Drop: **Comm 450 Quantitative Research Methods** (3cr) and **Comm 451 Qualitative Research Methods** (3cr)  
And combine into one new course: **Comm 455 Communication Research Methods** (3 cr). Aims and methods of quantitative and qualitative communication research.
10. Drop: **Comm 222 Reporting** (3 cr).  
(*Recommended substitution: Comm 225 News Writing OR Comm 320 Information Gathering and Reporting*)  
Add two new courses:
  - **Comm 225 News Writing** (3 cr). Writing news for print, broadcast and online media. Introduction to newsroom structures and processes, news judgment and decision making. Prereq: Comm 121.
  - **Comm 320 Information Gathering and Reporting** (3 cr). Skills in identifying and reporting credible information for print, broadcast and online news media.
11. Reactivate from dormant status: **Comm ID 440 Media and the Canadian Experience** (3 cr). WSU Com 403. Comparison and contrast of American and Canadian media systems; American-Canadian media coverage of issues of cross-border importance; Canadian citizens use of media.
12. Drop the following courses:
  - **Comm 132 Oral Interpretation** (2 cr). (*Recommended substitution: Comm 111 Intro to Comm Studies*)
  - **Comm 134 Nonverbal Communication** (2 cr). (*Recommended substitution: Comm 111 Intro to Communication Studies or Comm 233 Interpersonal Communication*)
  - **Comm 333 Interviewing** (3 cr). (*Recommended substitution: Comm 111 Intro to Communication Studies or Comm 233 Interpersonal Communication*)

- **Comm 381 Photographic Materials and Techniques** (3 cr). (*Recommended substitution: Comm 387 Digital Imaging*)
- **Comm 385 Color Photography** (3 cr). (*Recommended substitution: Comm 387 Digital Imaging*)
- **Comm 481 Advanced Photography** (3 cr).

18. Add the following courses:

- **Comm 112 Media and Society** (3 cr). Overview of mass communication: history and structure of media organizations; the political, economic and social context of media; legal and ethical considerations; visual and media literacy; cultural approaches to mass communication research.
- **Comm 310 Communication Inquiry** (3 cr). Exploration of relationships between communication theory, methodology and practice. Students will investigate the nature of inquiry and how to ask relevant questions about the communication process.
- **Comm 335 Intercultural Communication** (3 cr). Survey of current theories and research on intercultural communication; development of critical thinking skills in regard to intercultural interaction and communication styles.
- **Comm 350 Public Relations Writing and Production** (3 cr). Public relations writing, publication and design processes for print, broadcast and online media. Prereq: Comm 121.
- **Comm 446 History of Communication Studies** (3 cr). Survey of the history of the field of communication studies with a special focus on communication campaigns.
- **Comm 471 Senior Seminar in Communication** (3 cr). Capstone course for senior communication majors. Addresses contemporary issues from the multiple perspectives of the discipline, including visual, oral, and written communication.
- **Comm 491 Communication and Aging** (3 cr). A communication perspective is adopted to examine the aging process and the ability of individuals to successfully adapt to aging; issues addressed are theory, research and factors associated with communication and aging.

19. Change department curricula as follows:

~~The school offers B.A. and B.S. degree programs in journalism and mass communication, public communication, and visual communication. Students seeking careers in print and broadcast journalism should enroll in the journalism and mass communication degree program; those interested in broadcasting, photography, digital imaging, and other areas of visual communication should enroll in the visual communication degree program; and those interested in advertising, organizational communication, and public relations should enroll in the public communication degree program. All three programs of study provide preparation for those who wish to seek advanced degrees in communication.~~ B.A. and B.S. degrees in communication, with options in advertising, communication studies, journalism, public relations, and visual communication. All of the programs provide students with preparation for careers or advanced degrees in communication.

Students seeking the B.A. degree are required to have a demonstrable proficiency in a foreign language . . .

#### **Undergraduate Curricular Requirements**

Note: Required courses in a student's major cannot be used to satisfy the distributional requirements for the College of Letters and Science.

#### **COMMUNICATION (B.A. or B.S.)** School of Communication Requirements

All majors in the School of Communication are required to take Comm 101, Fundamentals of Public Speaking, Comm 111, Introduction to Communication Studies, Comm 112, Media and Society, Comm 121, Media Writing (freshman or sophomore year), Comm 310, Communication Inquiry, Art 110 Visual Communication, and either Stat 150 or Stat 251, ~~and at least one course in the "visual" basic skill area as approved by the School of Communication.~~ Candidates for the B.S. degree are required to complete an academic minor or area of emphasis of at least 18 credits outside the School of Communication. Students must obtain approval from the School of Communication to apply internship credit toward a degree from the school.

Comm 101, 111, 112, and 121 must be completed with a grade of C or better before a communication major may enroll in any upper-division communication courses.

Communication majors are required to take a sequence of courses that is intended to provide them with a comprehensive background in communication concepts, history, theory, and practice. Majors are required to take:

A. A total of two courses (6 cr) from two of the three areas listed below. These two courses cannot also be counted toward the completion of the options described in section D :

1) Oral:

Comm 233 Interpersonal Communication  
Comm 235 Organizational Communication

2) Visual:

Comm 275 Introduction to Video/Television & Digital Media Production  
Comm 281 Understanding Photography  
Comm 288 Introduction to Film Studies  
Comm 291 Web Communication

3) Written:

Comm 225 News Writing  
Comm 252 Principles of Public Relations  
Comm 265 Principles of Advertising

B. One of these history courses:

Comm 382 History of Photography  
Comm 384 History of American Film  
Comm 445 History of Mass Communication  
Comm 446 History of Communication Studies

C. One of these two courses:

Comm 442 Communication Law and Ethics  
Comm 455 Research Methods in Communication

D. Majors are required to complete 12 credit hours in one “option” area. Courses recommended to fulfill those options include:

**Advertising Option**

Comm 265 Principles of Advertising  
Comm 361 Advertising Creativity  
Comm 364 Advertising Media Planning  
Comm 466 Advertising Campaign Strategy  
Comm 468 The Advertising Agency

**Communication Studies Option**

Comm 233 Interpersonal Communication  
Comm 235 Organizational Communication  
Comm 331 Conflict Management  
Comm 332 Communication and the Small Group  
Comm 335 Intercultural Communication  
Comm 347 Persuasion

**Journalism Option**

Comm 225 News Writing (required)  
Comm 320 Information Gathering and Reporting  
Comm 322 Broadcast News  
Comm 324 News Editing and Production  
Comm 425 Feature Article Writing  
Comm 427 Public Affair Reporting

**Public Relations Option**

Comm 252 Principles of Public Relations  
Comm 350 Public Relations Writing and Production  
Comm 433 Organizational Communication Theory and Research  
Comm 452 Public Relations Campaign Design  
Comm 458 Public Relations Case Studies and Issues Management

**Visual Communication Option**

Comm 275 Introduction to Video/Television & Digital Media Production  
Comm 276 Intermediate Electronic/Digital Media Production  
Comm 288 Introduction to Film Studies  
Comm 291 Web Communication  
Comm 375 Broadcast Television and Studio Program Production  
Comm 386 Documentary Film/Television  
Comm 387 Digital Imaging  
Comm 484 Experiences in Visual Thinking

E. Communication majors are required to complete a capstone course, Comm 471, Senior Seminar in Communication (3 cr.), and an additional 9 credits of upper-division electives in communication.

A minimum cumulative university grade-point average of 2.50 is required of students in order to graduate with a communication degree. ~~seeking upper class standing in the school or graduating with any of the majors offered by the school.~~ All students must ~~meet the minimum grade point average and~~ have completed a minimum of 58 credits to enroll in any upper-division course (numbered 300 or above) offered by the school. Registration preference in all courses is given to School of Communication majors. ~~In order to remain in good standing in the school, the 2.50 grade point average must be maintained.~~

~~Note: Students using a catalog issued before 1991 must meet a minimum cumulative grade point average of 2.25 as applied above.~~

A student who graduates with a major in the School of Communication must complete a minimum of 128 credits . . .

Communication majors cannot apply more than 48 hours of courses in communication (not including Comm 101) toward the 128-credit degree requirement and are required to take no fewer than 65 hours in the liberal arts and sciences.

### ~~JOURNALISM AND MASS COMMUNICATION (B.A. or B.S.) . . .~~

### ~~PUBLIC COMMUNICATION (B.A. or B.S.) . . .~~

### ~~VISUAL COMMUNICATION (B.A. or B.S.) . . .~~

#### **Academic Minor Requirements**

##### **ADVERTISING MINOR . . .**

~~Comm 360 Broadcast Media Advertising (3 cr)~~

~~Comm 362 Print Media Advertising (3 cr)~~

~~Comm 431 Professional Presentation Techniques (3 cr)~~

Comm 361 Advertising Creativity (3 cr)

At least ~~two~~ three of the following (6 ~~9~~ cr): . . .

Comm 431 Professional Presentation Techniques

Comm 442 Communication Law and Ethics

~~Comm 448 Law of Mass Communication~~

### ~~INTERPERSONAL COMMUNICATION MINOR . . .~~

#### **COMMUNICATION STUDIES MINOR**

Comm 111 Introduction to Communication Studies (3 cr)

Comm 233 Interpersonal Communication (3 cr)

Comm 332 Communication and the Small Group (3 cr)

At least three of the following (9 cr.):

Comm 235 Organizational Communication

Comm 331 Conflict Management

Comm 335 Intercultural Communication

#### **JOURNALISM MINOR . . .**

~~Comm 111 Introduction to Communication Studies (3 cr)~~

Comm 112 Media and Society (3 cr)

~~Comm 222 Reporting (3 cr)~~

~~Comm 424 News Editing (3 cr)~~

~~Comm 448 Law of Mass Communication (3 cr)~~

Comm 225 News Writing (3 cr)

Comm 320 Information Gathering and Reporting (3 cr)

Comm 442 Communication Law and Ethics

Journalism-related courses selected with the advisor to meet specific career goals (6 ~~3~~ cr)

#### **PUBLIC RELATIONS MINOR . . .**

~~Comm 433 Organizational Communication Theory and Research (3 cr)~~

Comm 350 Public Relations Writing and Production (3 cr)

At least one ~~One~~ of the following (3 cr): . . .

#### **VISUAL COMMUNICATION MINOR . . .**

~~Comm 111 Introduction to Communication Studies (3 cr)~~

~~Comm 121 Media Writing (3 cr)~~

~~Comm 284 Experiences in Visual Thinking (3 cr)~~

Comm 281 Understanding Photography (3 cr)

~~Comm 441 Ethics in Mass Comm or Comm 448 Law of Mass Comm (3 cr)~~

Comm 291 Web Communication (3 cr)

At least two of the following (6 cr):

Comm 382 History of Photography

Comm 384 History of American Film

Comm 387 Digital Imaging

Comm 442 Communication Law and Ethics

Comm 445 History of Mass Communication (3 cr)

Comm 484 Experiences in Visual Thinking

Comm 478 Broadcast/Cable/Web Programming

## ELECTRICAL ENGINEERING

1. Drop graduate-level joint-listing of: **EE J435/J535 High Frequency Circuits** (3 cr). Transmission line theory; microwave propagation; impedance matching; Smith chart analysis; N-port circuits; S-parameters; coupler, filter, transformer and power divider design. Prereq: EE 330 or perm.

## ENGLISH

1. Add the following Creative Writing courses:
  - **Engl 293 Creative Writing: Nonfiction** (3 cr). Introduction to techniques of writing creative nonfiction.
  - **Engl 393 Intermediate Nonfiction Writing** (3 cr). Intermediate creative nonfiction; emphasis on workshop approach. Prereq: Engl 293 or perm.
  - **Engl 493 Advanced Creative Writing: Nonfiction** (3 cr, max arr). Advanced creative nonfiction; emphasis on workshop approach. Prereq: Engl 393 or perm.
2. Add: **Engl 316 Environmental Writing** (3 cr). Principles and practice in writing related to communicating information about scientific and environmental issues to public audiences through proposals, correspondence, and essays or reports. Prereq: Engl 102, Jr. standing or perm.
3. Change credits and description of: **Engl 401 Writing Workshop for Teachers** (~~2~~-3 cr). Enrollment limited to juniors or seniors majoring or minoring in ~~secondary~~ English ~~education or English (with certification)~~ or ~~to senior in secondary or~~ elementary education ~~majors programs~~; ~~others may enroll with permission of the instructor. Theory and practice of jr/sr high school composition instruction; further development of student's own writing skills. Three lec and one lab a wk. Students doing a year-long internship in English should enroll for 2 cr; all others should enroll for 3 cr. Develops students' writing abilities in a workshop setting adaptable to K-12 classrooms. Three-credit option includes theory and practice of teaching writing in elementary schools and across the curriculum.~~
4. Add: **Engl 403 Teaching Writing in Secondary Schools** (3 cr). Theory and practice of writing instruction in junior/senior high. Web-based course. Enrollment limited to English and secondary education/English majors concurrently enrolled in EdTE 485. Coreq: EDTE 485.
5. Change title and description of: **Engl 471 Poe, Hawthorne, and Melville American Literature, 1830-1865** (3 cr). ~~Major works and their place in the~~ American ~~Renaissance~~. cultural movements and writers of the mid-nineteenth century. (Alt/sem)
6. Drop: **Engl 472 Emerson, Thoreau, and Whitman** (3 cr).

## ENVIRONMENTAL ENGINEERING

1. Add: **EnvE 535 Applied Bioremediation** (3 cr). See BAE 534.

## ENVIRONMENTAL SCIENCE

1. Drop the 'Idaho Falls Only' designation (R) from the following:

EnvS ~~R-J479/R-J579~~ **Introduction to Environmental Regulations** (3 cr).  
EnvS **R541 Sampling and Analysis of Environmental Contaminants** (3 cr).

2. Change curriculum of: **Environmental Science (B.S.Env.S.)**

Adviser-directed breadth electives, including at least one course from the first four areas (24 cr)

**Technical . . .**

[Biol R531 Environmental Science and Pollutants](#)

**And one the following options:**

A. BIOLOGICAL SCIENCE OPTION

Adviser-approved depth electives--include all the courses from at least two of the following areas (20 cr)

**Water (take at least 4 of the 6 courses) . . .**

[Geol 478 Advanced Geochemistry of Natural Waters](#)

[Geol 468 The Geochemistry of Natural Waters](#)

**Environmental Chemistry . . .**

[Biol R531 Environmental Science and Pollutants](#)

[FST 409 Principles of Environmental Toxicology](#)

B. PHYSICAL SCIENCE OPTION

Adviser-approved depth electives--meet requirements of at least two of the following areas (20 cr)

**Water (take at least 4 of the 6 courses) . . .**

[Geol 478 Advanced Geochemistry of Natural Waters](#)

[Geol 468 The Geochemistry of Natural Waters](#)

**Chemistry . . .**

[FST 409 Principles of Environmental Toxicology](#)

**Hazardous Waste . . .**

[FST 409 Principles of Environmental Toxicology](#)

**Geology (take at least 4 of the 5 courses) . . .**

[Geol 468 The Geochemistry of Natural Waters](#)

[Geol 478 Low Temperature Aqueous Geochemistry](#)

## FISH AND WILDLIFE RESOURCES

1. Add: **Fish 316 Principles of Population Dynamics** (2 cr). Basic principles of population ecology of animals. Taught first half of semester. Prereq: For/Rnge/Wlf 221.
2. Change prereqs of: **WLF 448 Fish and Wildlife Population Ecology** (4 cr). Attributes, natality, mortality, growth forms, fluctuations, and regulation of fish and wildlife populations. Three lec and one lab a wk. Prereq: Stat 251; [Fish 316](#), [WLF 316](#), ~~or Fish 314~~ or course in vertebrate ecology. (Fall only)
3. Change prereqs of: **WLF 492 Wildlife Management** (4 cr). Review of social and biological context for current practice of wildlife management. Three lec and one lab a wk; two days of field trips. Prereq: [WLF 316](#), [Wlf 448](#), ~~Bot 244~~[Biol 341](#) or equiv.; Prereq or coreq: 2 courses from the following: [Wlf 482](#), [Biol 481](#), [Biol 483](#), [Biol 484](#) ~~Zool 482 and 483~~, and [WLF 448](#), or perm. (Spring only)
4. Change the curriculum of: **B.S.Wildl.Res.**  
**Third and Fourth Years . . .**  
Restricted electives ~~chosen from the following courses (6 cr)~~ Choose two courses from the following:  
[Fish 411](#)/[Zool 481](#) Ichthyology  
~~Zool~~ [Wlf 482](#) [Natural History of Birds](#) [Ornithology](#) . . .
5. Change the curriculum of: **B.S.Fish.Res.**  
**Third and Fourth Years . . .**  
[Fish 316 Principles of Population Dynamics \(2 cr\)](#)  
Restricted electives selected from the following courses (15 cr) . . .  
~~WLF/Rnge~~ [493 Environmental Law \(2 cr\)](#)

## FOOD SCIENCE AND TOXICOLOGY

1. Add new emphasis to: **Food Science major (B.S.F.S.)**

Select one of the following emphasis areas:

**I. Processing Emphasis . . .**

**II. Business Emphasis . . .**

**III. Science Emphasis . . .**

**IV. Nutrition Emphasis**

MMBB 380 Introductory Biochemistry (4 cr)

Chem 275 Carbon Compounds (3 cr)

Chem 276 Carbon Compounds Lab (1 cr)

Select 11 credits from the following:

FCS 270 Intermediate Foods (3 cr)

FCS 384 Quantity Food Production and Equipment ( 5 cr)

FCS 387 Food Systems Management (3 cr)

FCS 405 Eating Disorders (2 cr)

FCS 305 Nutrition Related to Fitness and Sport (3 cr)

## FOREST PRODUCTS

1. Drop: **ForP 426 Quality Control in Wood Products Manufacture** (2 cr).

2. Change title, description, and prereqs of: **ForP 438 Wood Chemistry and Adhesives** (3 cr). Aspects of wood chemistry in relation to its application, including utilization of wood, wood residues, and pulping by-products; pulping chemistry, pulp bleaching, and cellulose derivatives wood and adhesive interfaces. One or two optional half-day field trips Two lec and one 3-hr lab a wk. Prereq: organic chemistry Chem 101 and ForP 277. (Alt/yrs)

3. Change curriculum of: **B.S.For.Prod. – Wood Construction & Design Opt.**

**Delete the following required courses:**

~~Biol 100 Intro to Biol~~

~~Chem 101 Intro to Chem~~

~~Acct 201 Prin of Accounting~~

~~Econ 201 Prin of Economics~~

4. Change curriculum of: **B.S.For.Prod. – Timber Harvesting Opt.**

**Delete from the Timber Harvesting, Resource Emphasis, and Technical Emphasis:**

~~Econ 201 Principles of Economics~~

**Delete and add to the Resource Emphasis:**

~~Phys 111 General Physics I or Physics 211 Engineering Physics I~~

ForP 365 Wood Building Technology

5. Change curriculum of: **B.S.For.Prod. – Forest Products Business Management Opt.**

**Delete the following required courses:**

~~CS 112 Intro to Prob Solv/Prog or ASM 240 Computer Appl in Biol Systems~~

~~Econ 201 Prin of Econ~~

~~Phil 103 Ethics~~

~~Bus 332 Quant Meth in Bus~~

~~ForP 426 Qual Cntl in Wood Prod Mgt~~

**Add the following required courses:**

Bus 424 Pricing Strategy and Tactics

Bus/Stat 456 Quality Mgt

ForP 438 Wood Chem and Adhesives

**Allow the option of taking For 320 Dendrology or LArc 288 Plant Materials**

## FOREST RESOURCES

1. Add: **For 429 Landscape Ecology** (2 cr). Ecological relationships and conservation issues for biotic communities in watersheds, including spatial and temporal dynamics and patterns, and importance of landscapes in maintenance of ecosystem diversity and function. One field trip. (Spring only). Prereq: For/Rnge/WLF 221.
2. Change title and description of: **For 474 Forest Inventory and Mensuration** (3 cr). Principles of ~~log, tree, and stand measurements, cruise design and implementation for timber and other products;~~ growth and yield, fixed plot, and 3P sampling; ~~cruise design and implementation.~~ Two lec and ~~3 2~~ hrs of lab a wk; ~~two 1-day field trips.~~ Prereq: For 274, 394, and perm.
3. Add: **Fire Ecology and Management Minor**  
**Fire Ecology and Management Minor Requirements**  
For 426 Wildland Fire Management and Ecology (3 cr)  
For 427 Prescribed Burning Laboratory (2 cr)  
For/Rnge/WLF 221 Natural Resources Ecology (3 cr)  
For 394 Quantitative Resource Analysis or Rnge 357 Rangeland and Riparian Habitat Assessment (3 cr)  
One or more of the following (2-3 cr)  
For 330 Forest Ecosystem Processes  
Rnge 459 Rangeland Ecology  
For 429 Landscape Ecology  
For 424 Silviculture II  
Rnge 354 Wildland Vegetation Management and Restoration  
RRT 490 Wilderness Management  
WLF 492 Wildlife Management  
WLF 445 Nongame Management  
ForP 430 Forest Engineering and Harvesting  
For 476 Forestry Project Evaluation  
For 484 Forest Policy and Administration  
One of the following courses (3 cr)  
Geog 301 Meteorology  
Geog 401 Climatology  
One of the following courses (1-3 cr)  
Geog 385 GIS Primer  
Geog 475 Geographic Information Systems  
NR 402 GIS Applications in Natural Resources  
To complete this minor, students must complete a minimum of 18 credits from the list above.

## GENETICS

1. Remove cross-list and change description of: **Gene 314 General Genetics** (3 cr). ~~See Biol 351. Principles of molecular genetics, microbial genetics, cytogenetics, qualitative genetics, quantitative genetics, and population genetics.~~ Prereq: Biol 112 or perm. (Spring only)
2. Drop: **Gene 315 Experimental Genetics** (2 cr). See Biol 352.  
*(Recommended Substitution: Biol 354 Experimental Approaches in the Biological Sciences)*

## GEOGRAPHY

1. Change curricular requirements for: **CARTOGRAPHY (B.S.Cart.) – GIS OPTION . . .**  
~~CS 245 Computer Organization and Architecture (4 cr)~~
2. Add: **Geog 320 Survey of Hydrologic Science** (3 cr). Survey of topics in hydrologic science. Topics including: the global water cycle, storage and movement of soil moisture, soil hydraulic characteristics, rainfall/runoff relationships, approaches to watershed modeling, basic principles of groundwater flow. Lab includes hands-on field and computer lab exercises. Two hrs lecture and two hrs lab per wk. Prereq: Math 143, and Chem 101 or Chem 111 or Phys 111 or Phys 221 or equiv.
3. Add joint grad-level numbers and change descriptions of:

- **Geog J340/J540 Business Location Decisions** (3 cr). Locational decision making in primary, secondary, and tertiary industries; resulting patterns of industrial location; importance of location and impact of industries on other characteristics of communities as demonstrated by examples from each sector. One 1-day field trip. [Additional assignments and exams reqd for grad cr.](#) Prereq: Geog 200 or perm.
  - **Geog J350/J550 Geography of Development** (3-4 cr). Geographic appraisal of resource problems and development potentials of the Third World. One hour additional meeting per week or project for fourth credit. [Additional assignments and exams reqd for grad cr.](#) Prereq: Geog 200.
  - **Geog J360/J560 Population Dynamics and Distribution** (3-4 cr). Same as Soc 360. Effects of fertility, mortality, and migration on population size and distribution; demographic trends in U.S. and other societies and how these relate to economic, political, environmental, and other factors. One hour additional meeting per week or project for fourth credit. [Additional assignments and exams reqd for grad cr.](#) Prereq: Geog 200 or perm.
4. Add: **Geog J405/J505 Climate and Water Resources Change** (3 cr). Physical processes that determine the climate of Earth and its past and future changes: greenhouse effect, radiative and heat feedback processes, orbital parameter theory. Climate and Environmental Periods. Atmospheric and water resources change within the instrumental period of records. Future climate and water resources: Paleo-perspectives on "greenhouse warming". Review of paleoclimate techniques: dendro-climatology, marine and lake sediments, polar and mountain ice core paleo-climatic records, paleo-climatic and historic data analysis. Additional assignments and exams reqd for grad cr. Prereq: Geog 401 and Stat 251, or perm.
  5. Add joint grad-level number and change description of: **Geog J427/J526 Spatial Decision-Making in Resource Management Support Techniques** (3 cr). Theory and applications of evaluation, collaborative spatial decision making, and optimization techniques in planning and management of natural resource systems; focus on operational knowledge of techniques, applicability, and limitations. [Additional assignments and exams reqd for grad cr.](#) Prereq: Geog 240, Math 160 or Stat 401 or perm. (Alt/yrs)
  6. Add joint grad-level number and change description, prereq, and coreqs of: **Geog J483/J583 Remote Sensing/GIS Integration** (3 cr). ~~Ideas and advanced applications on the use of remotely sensed data and its integration with GIS; topics include examination of various types of imagery, preparing that imagery for incorporation into a GIS, and how to transform that imagery so it is compatible with a GIS~~ [Concepts and tools for the processing, analysis and interpretation of digital images from satellite and aircraft-based sensors. The integration of remotely sensed data and other spatial data types within Geographic Information Systems. Additional assignments and exams reqd for grad cr.](#) Two lec and ~~1~~ 2 hr of lab a wk. Prereq: For 472 [or equiv](#), and Stat 251. Coreq: Geog 385 [or equiv](#).
  7. Add joint grad-level number and change title, description, and prereqs of: **Geog J484/J584 Intermediate Digital Advanced Topics in Remote Sensing and Image Processing** (3 cr). [Advanced concepts in the Applications of remote sensor sensing data for environmental problem solving to natural resource issues. Expanded and advanced capabilities for the analysis and interpretation of digital imagery. Additional assignments and exams reqd for grad cr.](#) Two lec and 2 hrs of lab a wk. Prereq: Geog [385 and](#) 483.
  8. Add: **Geog 509 Alpine Hydrology** (3 cr). Alpine runoff generation in concept of climatic and environmental changes, with particular emphasis on snow and glacier hydrology, permafrost, snow-water chemistry, watershed meteorology, watershed energy balance, land classification and suitability analysis, interpolation techniques, terrain analysis and model integration. Sources and ramifications of potential, problems of a small watershed in water resources changes (restoration and conservation). Prereq: Geog 320, Geog 401, and one semester of calculus, or perm.
  9. Add: **Geog 518 Climate and Hydroclimate Modeling** (3 cr). Principles of global climate modeling. A hierarchy of modeling approaches, conceptual models, empirical/statistical models, analytical models, and simple and complex numerical models. Verification, interpretation and visualization of model output, numerical techniques and methods. Review of objective analysis techniques commonly applied to atmospheric problems. Development of the PRMS – “Precipitation-Runoff-Modeling System”, the SRM – “Snowmelt Runoff Model” and others meso- and regional models. Modeling seasonal cycles of snow cover. Prereq: Geog 405/505 and Stat 251, or perm.

## GEOLOGICAL SCIENCES

1. Add: **Geol 150 Geology of the Oceans** (3 cr). Introduction to the geology of the oceans including their origins and evolution. One 1-day field trip.
2. Change description and prereq of: **Geol ID344 Earthquakes and Seismic Hazards** (3 cr). WSU Geol 444. Same as GeoE 344. The geology of earthquakes ~~from the mechanics of failure to~~ including the cause of fault rupture, seismic waves, ~~to seismicity~~ focal mechanisms, earthquakes associated with all fault types in a variety of tectonic settings; methods of identifying paleo-earthquakes in the geologic record, and assessing seismic the assessment of seismic hazard and risk in active fault environments. One ~~2~~ 3-day field trip. Prereq: Geol 101 or 111, ~~Phys 111 or 211~~.
3. Change description and prereq of: **Geol 423 Principles of Geochemistry** (3 cr). Physiochemical principles applied to geologic processes; ~~phase equilibria in rock systems~~. Topics covered include atmospheric geochemistry, environmental geochemistry, aqueous geochemistry, crystal chemistry, radiogenic and stable isotopes. Two lec and one 2-hr lab a wk. Prereq: Geol 101 or 111, and Chem ~~111~~ 112.
4. Add: **Hydr ID576 Fundamentals of Modeling Hydrogeologic Systems** (3 cr). WSU Geol 576. Development and application of models representing physical systems, with particular emphasis on groundwater flow. Development and solution of the basic equations of potential flow will be covered, along with their assumptions and limitations. Properties assignment, parameter sensitivity, and dimensional analysis will also be discussed. The course will emphasize when modeling is appropriate, how to design a model, and how properties should be selected to achieve meaningful results. Prereq: Math 275 and Hydr 563 or equiv, or perm.
5. Change prereqs of: **Hydr 577 Computer Applications in Geohydrology** (3 cr). Numerical modeling of groundwater systems with particular emphasis on finite difference methods. Prereq: ~~Geol/GeoE 309, or perm~~ Hydr 576.

## HEALTH, PHYSICAL EDUCATION, RECREATION, AND DANCE

1. Drop the following dormant courses:
  - **Dan 113 Problems in Dance Composition** (1 cr)
  - **H&S 592 School Health Programs** (3 cr)
  - **PEP 120 Skilled Analysis of Wrestling** (1 cr)
  - **PEP 271 Interpretation of Physical Education, Health, and Recreation** (3 cr)
  - **PEP 381 Measurement and Evaluation II** (1 cr)
  - **PEP 571 Motor Evaluation of Handicapped** (3 cr)
  - **PEP 572 Program Application in Physical Education and Recreation for Handicapped** (3 cr)
2. Add: **Dan 101 First Year/Transfer Student Orientation** (1 cr). Introductory course to introduce new students to dance at the university level. Open to dance majors and minors only.
3. Change prereq of: **H&S 245 Introduction to Athletic Injuries** (3 cr). Special fee course. Athletic training; recognition, evaluation, general care of athletic injuries; adhesive strapping. Two lec and one lab a wk. ~~Prereq or coreq: Zool 120~~.
4. Change title and description of: **H&S 316 School and Community & Global Health Services** (2 cr). ~~Health services as they apply to the school, community health environment, and culture variables, with emphasis on public and volunteer organizations~~ Analysis of major public health problems and issues, including environmental health issues, as they affect communities locally, regionally, nationally, and globally. Introduction to agencies, facilities, programs, and careers in community health and health care. Prereq: H&S 150.
5. Change number, add joint grad-level number, and change description of: **H&S ~~323~~J423/J523 Health Education Methods and Administration** (3 cr). Curriculum design, organization and administration, methods and strategies, and resource materials for teaching health in a multi-culture school and community health setting. Team leadership project and activity required for grad cr. Prereq: H&S 150.

6. Add: **H&S 412 Emergency Response Instructorship** (1 cr). Develop skills and knowledge to train others in emergency response. Successful participants will receive emergency response instructor certification. Prereq: H&S 150, H&S 288, and perm.
7. Change title, description, and prereq of: **H&S J436/J536 Health and Wellness Promotion Program Planning** (3 cr). ~~Theoretical and programmatic aspects~~ Provides in-depth study of program planning, implementation and evaluation of health promotion/wellness programs in a variety of settings, including workplace and community; investigation of marketing, mass media, and health behavior change approaches; review of research on smoking cessation, weight control, nutrition, fitness, hypertension, and stress management programs. Students obtain hands-on experience planning a health promotion program. Special emphasis on competencies necessary for the health educators to function in a variety of community settings. Additional projects reqd for grad cr. Prereq: H&S 150 and perm.
8. Change title, description, and prereq of: **H&S J450/J550 Contemporary Issues in Consumer Health and Health Care Issues** (2 cr). ~~Current trends and issues affecting individual's and society's decisions regarding personal and environmental health~~ Examination of major personal health and health care consumer issues including advertising, labeling, health insurance, Medicare, health care services, over-the-counter drugs, disease prevention and control, health fads, detection of health fraud and quackery, sources of consumer protection, and other topics of interest to the consumer. Term project reqd for grad cr. Prereq: H&S 150.
9. Change title, description, and prereq of: **PEP 300 Applied Human Kinesiology Anatomy and Biomechanics** (2 cr). ~~Anatomical and mechanical analysis of human movement in sport and exercise~~ This course is designed to provide the student with the anatomical and biomechanical knowledge essential to conduct a systematic qualitative analysis of human movement in clinical, educational, performance, and wellness settings. Three hrs of lec-lab a wk. Prereq: ~~Zool Biol~~ 120.
10. Add: **PEP J417/J517 Advanced Human Biomechanics** (3 cr). This course is designed to provide the student with an in-depth understanding of the fundamental aspects of biomechanical analyses, including kinematic, kinetic, energetic, and neuromuscular considerations. The student will become familiar with quantitative analysis procedures used to analyze human movement activities in clinical, educational, performance, and wellness settings. Independent quantitative research project reqd for grad cr. Prereq: Math 143, Phys 111, and PEP 300.
11. Add the following courses:
  - **PEP 455 Design & Analysis of Research in HPERD** (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 science, 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, 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. Prereq: Jr or Sr standing.
  - **H&S 455 Design & Analysis of Research in HPERD** (3 cr). Same as PEP 455 and Rec 455. This course is designed to survey the basic types of research methods often found in health, physical education, sport science, 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, 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. Prereq: Jr or Sr standing.
  - **Rec 455 Design & Analysis of Research in HPERD** (3 cr). Same as H&S 455 and PEP 455. This course is designed to survey the basic types of research methods often found in health, physical education, sport science, 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, 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. Prereq: Jr or Sr standing.
12. Change description of: **PEP 498 (s) Internship in Physical Education** (cr arr). Supervised field work. ~~Graded P/F.~~ Prereq: jr standing and Rec 445.
13. Change curricular requirements for: **Dance (B.S.Dan.)**
  - Dan 101. First Year/Transfer Student Orientation (1 cr)
  - Dan 412. Dance Theatre Choreography (2 semester) (2 cr)

~~ED 312 Educational Psychology (2 cr)~~

PEP 300 Applied Human Kinesiology Anatomy and Biomechanics (2 cr)

Dance majors planning to qualify for the Standard Secondary Teaching Certificate must include college requirements and the following courses among the electives to complete the 128 credits for the degree ~~and should elect ED 312, Educational Psychology, above: . . .~~

~~ED 301 Principles of Learning and Development in Education (3 cr)~~

~~Ed 302 Curriculum, Instruction, and Assessment Strategies (3 cr)~~

~~ED 313 Educational Measurement (1 cr)~~

~~ED 314 Strategies for Teaching (2-3 cr)~~

~~ED 328 Introduction to Educational Technology (2 cr)~~

~~Ed 401 Professional Role Development (3 cr)~~

~~ED 445 Proseminar in Teaching (3 cr)~~

~~ED 468 Historical and Philosophical Foundations of Education (3 cr)~~

14. Change curricular requirements of: **Physical Education (B.S.Ed.)**

The major in physical education leads to certification in grades 1-12. This degree requires 28 credits of internship (PEP 484), H&S 288 or current Emergency Response and CPR certification at the time of graduation, human anatomy and physiology (~~Zoel Biol~~ 120, 121), and Idaho Technology Competency Certification.

Required course work includes the university requirements (see regulation J-3), general College of Education requirements, and:

**MOVEMENT COURSES . . .**

**INDIVIDUAL SKILL COURSES . . .**

**TEAM SKILL COURSES . . .**

**OUTDOOR/RECREATIONAL SKILL COURSES . . .**

**FOUNDATION COURSES . . .**

**PEDAGOGY COURSES . . .**

~~And the satisfactory completion of an approved teaching minor.~~

~~NOTE: Students who complete a teaching major in a second field (double teaching major) may have the above list of major requirements reduced to 33 credits with the approval of the division.~~

~~A single subject 60 credit major in physical education includes the above courses and advisor approved courses to total 60 credits.~~

15. Change curricular requirements of: **Recreation (B.S.Rec.)**

**Recreation Core: . . .**

~~Rec 455 Design and Analysis of Research in HPERD (3 cr)~~

~~RRT 310 Leisure Services Research and Evaluation (4 cr)~~

16. Change curricular requirements of: **School and Community Health Education (B.S.Ed.)**

The major in school and community health education leads to certification in grades 6-12. ~~Certification in the American Red Cross Emergency Response (or equivalent) is required for graduation.~~

Required course work includes the university requirements (see regulation J-3--contact the division for specific courses required in the core), general College of Education requirements that include 14 credits of student teaching (see division for details), an approved teaching minor, and: . . .

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

~~H&S 316 School and Community and Global Health Services (2 cr)~~

~~H&S 323 423 Health Education Methods and Administration (3 cr)~~

~~H&S 355 Accident Control, Prevention, and Human Ecology (2 cr)~~

~~H&S 436 Health and Wellness Promotion Program Planning (3 cr)~~

~~H&S 450 Contemporary Issues in Consumer Health and Health Care Issues (2 cr)~~

~~Zoel Biol 120 Human Anatomy (4 cr)~~

~~Zoel Biol 121 Human Physiology (4 cr)~~

17. Change curricular requirements of: **Sport Science (B.S.P.E.)**

~~H&S 436 Health and Wellness Promotion (3 cr)~~

~~H&S 450 Consumer Health and Health Care Issues (2 cr)~~

PEP 300 Applied Human Kinesiology Anatomy and Biomechanics (2 cr)

~~PEP 455 Design & Analysis of Research in HPERD (3 cr)~~

18. Change curricular requirements of: **Athletic Training Minor**

Note: ~~Chem 101 or 111 is required for students who select this minor and Zool 120 is a prerequisite to H&S 245. This minor does not prepare students to be certified athletic trainers. Individuals interested in certification should see the athletic training major sections of the catalog.~~ Only students enrolled in the ~~UI~~ Athletic Training ~~Room-clinical-experience~~ major (approved NATA students) may enroll in H&S 465, 466, 467, 468, ~~or and~~ 469. ~~NATA students are not required to take H&S 349.~~

H&S 245 Introduction to Athletic Injuries (3 cr)  
H&S 289 Drugs in Society (2 cr)  
H&S 349 Advanced Athletic Injuries (3 cr)  
H&S 495 Practicum in Tutoring (2 cr)  
FCS 205 Concepts in Human Nutrition (3 cr)  
FCS 305 Nutrition Related to Fitness and Sport (3 cr)  
PEP 300 ~~Applied~~ Human ~~Kinesiology~~ Anatomy and Biomechanics (2 cr)  
PEP 360 Motor Development and Control (3 cr)  
PEP 418 Physiology of Exercise (3 cr)  
Rec 431 Medical Terminology (2 cr)

~~NATA certification students must complete the following additional courses:~~

~~H&S 466 Athletic Training Evaluation  
H&S 467 Athletic Training Rehabilitation  
H&S 468 Athletic Training Modalities  
H&S 469 Athletic Training Organization and Administration~~

~~Elective: H&S 465 Medical Aspects of Athletic Injuries~~

19. Add: **Dance Performance Minor**

Dance 100 Dance in Society (3 cr)  
Dance 210 Dance Theatre (2 times) (4 cr)  
Dance 383 Dance Composition (2 times) (2 cr)  
Electives chosen from the following (11 cr):  
Dance 105 Dance: Musical Theater (1 cr)  
Dance 105 Dance: Tap (1 cr)  
Dance 105 Dance: Repertory (1 cr)  
Dance 112 Recreational Dance Forms (2 cr)  
Dance 216 Techniques: Ballet I/II (1 cr)  
Dance 216 Techniques: Ballet III/IV (1 cr)  
Dance 216 Techniques: Ballet V/VI (1 cr)  
Dance 216 Techniques: Jazz I/II (1 cr)  
Dance 216 Techniques: Jazz III/IV (1 cr)  
Dance 216 Techniques: Modern I/II (1 cr)  
Dance 216 Techniques: Modern III/IV (1 cr)  
Dance 416 Adv Tech: Pre-Professional Ballet (1 cr)  
Dance 416 Adv Tech: Pre-Professional Jazz (1 cr)  
Dance 416 Adv Tech: Pre-Professional Modern (1 cr)

20. Change curricular requirements of: **Health Education Teaching Minor**

~~23~~ **22-CREDIT HEALTH EDUCATION TEACHING MINOR**

Students minoring in health education who plan to apply for teacher certification must include a course in anatomy ~~and or~~ physiology or general biology ~~or MMBB~~ among the courses they select to meet the general studies requirements. ~~A current advanced first aid and emergency care card is required upon graduation.~~

H&S 150 Wellness Lifestyles (3 cr)  
H&S 288 First Aid: Emergency Response (2 cr)  
H&S 289 Drugs in Society (2 cr)  
H&S 316 ~~School and~~ Community ~~and Global~~ Health ~~Services~~ (2 cr)  
H&S ~~323~~ 423 Health Education Methods and Administration (3 cr)  
H&S 350 Stress Management and Mental Health (2 cr)  
H&S ~~355 Accident Control, Prevention, and Human Ecology~~ or 450 ~~Contemporary Issues in~~ Consumer Health ~~and Health Care Issues~~ (2 cr)  
~~H&S 436 Health and Wellness Promotion~~ (3 cr)  
FCS 205 Concepts in Human Nutrition or 305 Nutrition Related to Fitness/Sport (3 cr)  
FCS 240 Intimate Relationships or Psyc 330 Human Sexuality (3 cr)

## LANDSCAPE ARCHITECTURE

1. Change description of: **LArc 210 Computer Applications in Landscape Architecture** (2 cr). Exploration of hardware and software tools that are used by landscape architects throughout the design process; emphasis on CAD with an introduction to related landscape architecture specific tools. Open to landscape architecture majors only; non-majors by permission.
2. Change curriculum of: **Landscape Architecture (B.L.Arch.)**

~~A place in the program at the sophomore level and above will be restricted by Landscape Architecture Accreditation Board guidelines for faculty student ratios, availability of space, and student GPA. Entry decisions for transfer students from within the university and other institutions will be based on GPA (typically 2.5 or above) and ACT or SAT test scores. Students transferring from other landscape architecture programs or landscape design programs may also be required to submit a portfolio in order to determine their placement in the curriculum.~~

~~Note: A "C" or better in all landscape architecture courses must be maintained for a student to remain in good standing in the department. At no time may a student advance in the design and construction studio series (LArc 259, 260, 270, 359, 360, 371, 459, 460) if he or she has received less than a "C" in design for more than one semester. A grade of "C" or better is required in all landscape architecture courses, with the exception of no more than one studio, for a student to graduate from the program.~~

~~On registering for a course offered in the department, the student agrees that the department may retain work completed by the student for display, instruction, and accreditation purposes.~~

Students are typically accepted into the landscape architecture major as freshman or as transfer students. However accreditation standards defining acceptable student/faculty ratios, the desire of the faculty to recruit and retain the most qualified students to the program and the availability of overall studio space, limit the number of students in the sophomore, junior and senior design studios. In order to meet these standards and constraints all freshmen must submit a portfolio of their work at the end of spring semester of their freshman year. Transfer students must also provide a portfolio. (Any visual creative activity may be submitted if the student has not taken any design courses.) A committee of faculty will review this portfolio along with each student's cumulative GPA to determine their eligibility to enter the first landscape architecture design studio - LArc 259. Portfolios are due no later than the Monday of No Examination Week. All students will be notified of their eligibility for the coming fall semester no later than three weeks after the last day of classes of spring semester.

All majors in the program must maintain at least a 2.5 cumulative GPA in landscape architecture major courses. Failure to do so will require the student to meet with their advisor and repeat the landscape architecture major courses that impact this overall GPA before advancing in the program.

On registering for a course offered by the department, the student agrees that the department may retain work completed by the student for display, instruction, and accreditation purposes.

Landscape Architecture students are required to participate in two extended field trips, one in the spring of their junior year and another in the fall of their senior year.

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

Art 110 Visual Communication (2 cr)

Art 111 Drawing I (3 2 cr)

Math 143 Pre-calculus Algebra and Analytic Geom ~~or 137 Algebra with Applications~~ (3 cr)

## LAW

1. Add: **Law 964 Children and the Law** (2 cr). Children and the Law examines the legal status of children, including topics such as the parent-child relationship, guardianship, representation of children, neglect, and adoption.
2. Drop: **Law 936 American Legal History** (2 cr).

## MATERIALS, MINING, AND GEOLOGICAL ENGINEERING

### Materials Science and Engineering

1. Move to Dormant status [Summer 2002]:
  - **Met 211 Metallurgical Mass and Energy Balance** (3 cr).

- **Met 310 Metallurgical Reactor Design** (3 cr).
  - **Met 316 Physical Metallurgy II** (3 cr). Same as MSE 316.
  - **MSE 316 Physical Metallurgy II** (3 cr). See Met 316.
2. Add and cross-list:
    - **MSE 101 Introduction to Metallurgy and Materials Science** (1 cr). See MET 101.
    - **MSE 130 Engineering Analysis and Computations** (3 cr). See Min 130.
  3. Change title, description, and prereq of: **Met 308 Metallurgical Thermodynamics of Materials** (3 cr). ~~Same as MSE 308.~~ Intro; first, second, and third law; auxiliary functions; behavior of solutions; free energy composition and phase diagrams of binary systems; reaction equilibria in systems containing components in condensed solutions; ternary diagrams; thermodynamics of alloys and ceramic materials. Prereq: Chem ~~111 and~~ 112 ~~or 113, and~~ Math 310.
  4. Add and cross-list: **MSE 308 Thermodynamics of Materials** (3 cr). See Met 308.
  5. Change title, credits, description, and prereqs of: **Met ID309 Metallurgical Transport Phenomena for Design** (3 4 cr). WSU MSE 309. ~~Intro to principles of metallurgical transport phenomena including heat, mass, and momentum transfer~~ ~~Same as MSE 309. Mass, momentum, and energy balances applied to materials process and reactor design.~~ Prereq: ~~Math 275, Phys 212, Engr 210, and Chem 112;~~ Coreq: Math 310.
  6. Add and cross-list: **MSE 309 Transport Phenomena for Design** (4 cr). See Met 309.
  7. Change title and prereqs of:
    - **Met 313 Physical Metallurgy I** (4 cr). Same as MSE 313. Theory, structure, and properties of materials. Prereq: ~~Met/MSE 201 or~~ ME 261.
    - **MSE 313 Physical Metallurgy I** (4 cr). See Met 313.
  8. Change number, add joint undergrad course, change description, and prereq of:
    - **Met 514 J413/J513 Phase Rule and Phase Relations Equilibria in Materials** (3 cr). Same as MSE 514 J413/J513. ~~Phase rule construction and interpretation of phase diagrams; metastable and unstable phase relations~~ ~~Equilibria in materials systems, including relationship of free energy to phase diagrams.~~ Prereq: ~~perm~~ Met/MSE 313. (Alt/yrs)
    - **MSE 514 J413/J513 Phase Rule and Phase Relations Equilibria in Materials** (3 cr). See Met 514 413/513.
  9. Change title, description, and prereqs of: **Met 412 Mechanical Metallurgy Behavior of Materials** (3 cr). ~~Same as MSE 412.~~ Mechanical properties of solids, testing ~~methods, brittle and ductile fracture, plasticity, mechanical processes in metallurgy~~ ~~failure processes and theories, plasticity, mechanical processes in materials.~~ ~~One 1-day field trip.~~ Prereq: Met/~~MSE~~ 201 or ME 261.
  10. Add and cross-list: **MSE 412 Mechanical Behavior of Materials** (3 cr). See Met 412.
  11. Change title, description, and prereqs of:
    - **Met J423/J523 High Temperature Corrosion** (3 cr). Same as MSE J423/J523. ~~Oxidation of metals, semiconductors and ceramics, protective oxide scales and coatings, defect structures and diffusion oxides, kinetics and thermal fatigue, transport properties.~~ ~~Engineering aspects of corrosion and its control presented in ways of importance to a practicing engineer. Topics include corrosion economics, detecting and monitoring corrosion, regulations, specifications, safety. Emphasis on corrosion monitoring and corrosion fundamentals: chemical and electrochemical reactions; chemical and electrochemical equilibria-including Pourbaix diagrams; electrochemical kinetics. Selection and use of materials, from stainless steels to plastics. Failure analysis.~~ Additional projects/assignments reqd for grad cr. Prereq: ~~perm~~ Chem 111, 112, and Met/MSE 201. (~~Alt/yrs~~ Fall Only)
    - **MSE J423/J523 High Temperature Corrosion** (3 cr). See Met J423/J523.
  12. Change title, description, and prereqs of:
    - **Met J427/J527 Advanced Ceramics Materials** (3 cr). Same as MSE J427/J527. Crystallography, ceramic crystal structures, phase diagrams, phase transformation, mechanical properties, thermal properties, electrical

~~properties, and~~ magnetic properties ~~and optical properties~~. Additional projects/assignments reqd for grad cr.  
Prereq: Met/MSE 313 or perm.

- **MSE J427/J527 ~~Advanced~~ Ceramics Materials** (3 cr). See Met J427/J527.

13. Add: **MSE 430 Electrical, Optical, and Magnetic Properties of Materials** (3 cr). Materials for circuits, Magnetism and magnetic materials, Ferroelectric and piezoelectric materials, Semiconductors, Optical properties of semiconductor for Optoelectronics. Prereq: Sr standing or perm.

14. Add: **MSE 432 Fundamentals of Thin Film Fabrication** (3 cr). Physical deposition, Chemical Deposition, Post deposition process, Film characterization, Film Properties. Prereq: Sr standing or perm.

15. Add: **MSE 434 Fundamentals of Polymeric Materials** (3 cr). Basic information on polymeric materials, both fundamentals and uses. Prereq: Chem 111 and 112.

16. Remove 'Idaho Falls only' designation (R) from: **Met ~~R~~535 Failure of Structural Materials** (3 cr).

17. Change departmental curricula as follows:

**MATERIALS SCIENCE AND ENGINEERING (B.S.M.S.E.)**

MSE 101 Intro to Metallurgy and Materials Science (1 cr)

MSE 130 Engineering Analysis and Computations (3 cr)

MSE 201 Elements of Materials Science (3 cr)

MSE 308 Thermodynamics of Materials (3 cr)

MSE 309 Transport Phenomena for Design (4 cr)

MSE 313 Physical Metallurgy (4 cr)

MSE 341 Particulate Materials Processing (4 cr)

MSE 411 Phase Equilibria in Materials (3 cr)

MSE 412 Mechanical Behavior of Materials (3 cr)

MSE 414 Process Design (3 cr)

MSE 415 Materials Selection and Design (3 cr)

MSE 417 Instrumental Analysis (3 cr)

MSE 423 Corrosion (3 cr)

MSE 427 Ceramic Materials (3 cr)

MSE 430 Electronic, Optical, and Magnetic Properties of Materials (3 cr)

MSE 432 Fundamentals of Thin Film Fabrication (3 cr)

MSE 434 Fundamentals of Polymeric Materials (3 cr)

Chem 111 Principles of Chemistry I (4 cr)

Chem 112 Principles of Chemistry II (5 cr)

Chem 305 Physical Chemistry (3 cr)

Engr 105 Engineering Graphics (2 cr)

Engr 210 Engineering Statics (3 cr)

Engr 240 Introduction to Electrical Circuits (3 cr)

Engr 350 Engineering Mechanics of Materials (3 cr)

Engl 102 Essay Writing (3 cr)

Engl 317 Technical Writing (3 cr)

Math 170, 175, 275 Analytic Geometry and Calculus (11 cr)

Math 310 Ordinary Differential Equations (3 cr)

Phys 211, 212 Engineering Physics I, II (8 cr)

Stat 301 Probability and Stat or CE 402 Applied Numerical Methods for Engineers (3 cr)

Humanities and social science electives--must satisfy regulation J-3 and ABET criteria and include at least (1) one upper-division course that is the second course completed in that subject or (2) a course that has another humanities/social science course as a prerequisite (15 cr)

Technical electives (9 cr)

The minimum number of credits for the degree is 129, exclusive of Engl 101 and mathematics courses numbered lower than Math 170.

**METALLURGICAL ENGINEERING (B.S.Met.E.) . . .**

Met 201 Elements of Materials Science ~~or ME 261 Engineering Materials~~ (3 cr)  
~~Met 211 Metallurgical Mass and Energy Balance~~ (3 cr)  
 Met 308 ~~Metallurgical~~ Thermodynamics ~~of Materials~~ (3 cr)  
 Met 309 ~~Metallurgical~~ Transport Phenomena ~~for Design~~ (3 4 cr)  
~~Met 310 Metallurgical Reactor Design~~ (3 cr)  
 Met 313;~~316~~ Physical Metallurgy ~~I, II~~ (7 4 cr)  
~~Met 411 Phase Equilibria in Materials~~ (3 cr)  
~~Met 412 Mechanical Behavior of Materials~~ (3 cr)  
~~Chem 113 Inorganic Chem and Qual Analysis~~ or Chem 112 Prin of Chem II (4-5 cr)  
 Min 352 ~~Project Investment Analysis~~ ~~Cost Engineering~~ and Management (3 cr)  
 Humanities and social science electives--must satisfy regulation J-3 and ABET criteria and include at least (1) one upper-division course that is the second course completed in that subject or (2) a course that has another humanities/social science course as a prerequisite (4 15 cr)  
 Technical electives (3 9 cr)  
~~Metallurgical engineering electives~~ (6 cr)

### Mining Engineering

1. Change number, credit and description of: **Min 118 310 Miner Safety Training Engineering for Excavation Industries** (4 3 cr). A program to provide knowledge and training under Public Law CFR 30, Part 48, Health and Safety Training, MSHA and OSHA requirement, First aids, Hazcom plans and Retraining of Miners. Prereq: Soph standing or perm.
2. Cross-list and change title, credits, and description of: **Min 304 Explosives Blasting Engineering** (2 3 cr). Same as GeoE 320. Drilling and blasting equipment, MS detonation; use of commercial explosives and detonators; and design of blasting rounds (surface and underground). One 1-day field trip. Students have an opportunity at the end of each semester to learn and practice explosive blasting at the blasting site. Prereq: jr standing or perm.
3. Change title and description of: **Min 350 Mineral Economics of Aggregates and Crushed Stone** (3 cr). Minerals as resources and commodities; Aggregate and crushed stone and other minerals as resources, importance of minerals, and characteristics of their occurrence and production systems, and nature of mineral resources reserves; factors affecting supply and demand, pricing and marketing of mineral materials market analysis, labor economics. Prereq: Econ 201, 202 or perm. (Spring only)
4. Cross-list, and change title, description, and prereqs of:
  - **Min 352 Project Investment Analysis Cost Engineering and Management** (3 cr). Same as GeoE 352. Project organization and management, economic and financial decisions, capital and production Time value of money, fundamentals of cost estimating, basic accounting, economic evaluation principles, cash flow modeling, project management, equipment selection and replacement analysis, decision analysis, risk and uncertainty techniques, operation design optimization, and project selection. Prereq: ~~Min 130 or perm~~ Jr standing. [Summer 2002]
  - **Min 370 Mine Services Auxiliary Operations in Excavation Industries** (2 3 cr). Same as GeoE 370. Principles and design problems in compressed air power, hoisting, conveying, rail haulage, and material transfer. One field trip. Prereq: Min 103, Engr 210, or perm.
  - **Min 372 Mine Subsurface Ventilation and Environmental Management** (3 cr). Same as GeoE 372. Fundamentals of thermodynamics and heat transfer, mine Ggases, dusts, and airflow through mines, circuit analysis and use of computer program to solve air network problems; ventilation network analysis, fan selection, and placement; heat and other health and safety regulations in the design of mine ventilation systems issues in subsurface structures, environmental management.
5. Change credit hours and description of: **Min 401 Rock Mechanics** (3-4 cr). Same as GeoE 407. Basic mechanical properties of rocks and rock masses; lab and in-situ tech to obtain strength, stress distribution, and deformation behavior in rock masses; application of analytical techniques such as the finite element method to design stable mine structures and supporting systems; basic mechanism and new tech of rock fragmentation relating to drilling, blasting, and crushing. Four credits with lab option. Prereq: Engr 350.
6. Drop: **Min 402 Rock Mechanics Lab** (2 cr).

7. Change prereqs of: **Min J410/J510 Simulation of Engineering Systems** (3 cr). Use of the GPSS simulation language for simulation of mine engineering systems; topics in inventory control, scheduling, and optimization; animation of simulation results. Additional projects/assignments reqd for grad cr. Prereq: [Min 351 or perm Jr standing](#).
8. Change credits and description of: **Min 450 Surface Mine Design** (~~2~~ 3 cr). ~~Introduction to Principles of~~ surface mine design ([quarries, hard rock, coal, oil sands](#)), mine surveying, ~~reserve estimating, mine production planning and scheduling, mine equipment selection, and costing and replacement, geographic information and management information systems. Computerized mine design using Gemcom and/or other appropriate software.~~ One surveying field trip (~~joint with Min 451~~). Prereq: Min 103, 351, 352, CE 211 or perm; ~~coreq: Min 452~~.
9. Drop: **Min 452 Surface Mine Design Lab** (1 cr).
10. Drop: **Min 454 Geologic and Mine Modeling** (3 cr) and **Min 455 Resource Feasibility Studies** (2 cr)  
(*Recommended substitution: Min 440 Mine Modeling and Feasibility Studies*)  
And combine into one new course: **Min 440 Mine Modeling and Feasibility Studies** (3 cr). Conventional and geo-statistical ore reserve estimation methods, computer applications in reserve estimation and preliminary mine design, and feasibility study.
11. Change curricula for: **MINING ENGINEERING (B.S.Min.E.) . . .**  
 Min 103 Elements of Mining (~~3~~ 2 cr)  
~~Min 118 Miner Safety Training (1 cr)~~  
~~Min 304 Blasting Engineering (3 cr)~~  
~~Min 310 Safety Engineering in Excavation Industries (3 cr)~~  
 Min 352 ~~Project Investment Analysis~~ [Cost Engineering](#) and Management (3 cr)  
 Min 370 ~~Mine Services~~ [Auxiliary Operations in Excavation Industries](#) (~~2~~ 3 cr)  
 Min 372 ~~Mine Subsurface~~ [Ventilation and Environmental Management](#) (3 cr)  
 Min 401-~~402~~ Rock Mechanics ~~and w/Lab option~~ (~~5~~ 3-4 cr)  
~~Min 440 Mine Modeling and Feasibility Studies (3 cr)~~  
 Min 450 Surface Mine Design (~~2~~ 3 cr)  
~~Min 452 Surface Mine Design Lab (1 cr)~~  
~~Min 454 Geologic and Mine Modeling (3 cr)~~  
~~Min 455 Resource Feasibility Studies (2 cr)~~  
~~Engr 320 Engineering Thermodynamics and Heat Transfer (3 cr)~~  
~~Geol 345 Structural Geology (3 cr)~~  
 Students who wish to graduate with a quarry emphasis (1) are not required to take Min 351, 372, 402, and 451, and (2) add the following required courses:  
~~Min 304 Explosives (2 cr)~~  
~~Min 304 Blasting Engineering (3 cr)~~  
~~Min 350 Economics of Aggregate and Crushed Stone (3 cr)~~  
 The minimum number of credits for the degree is ~~135~~ 134 (or 132 for the degree with the quarry emphasis), exclusive of Engl 101 and mathematics courses numbered lower than Math 170.

### Geological Engineering

1. Add and cross-list:
  - **GeoE 320 Blasting Engineering** (3 cr). See Min 304.
  - **GeoE 352 Cost Engineering and Management** (3 cr). See Min 352.
  - **GeoE 370 Auxiliary Operations in Excavation Industries** (3 cr). See Min 370.
  - **GeoE 372 Subsurface Ventilation and Environmental Management** (3 cr). See Min 372.
2. Change credit hours of: **GeoE 407 Rock Mechanics** (~~3-4~~ cr). See Min 401.
3. Change curricula of: **GEOLOGICAL ENGINEERING (B.S.Geol.E.) . . .**  
~~GeoE 352 Cost Engineering (3 cr)~~  
~~GeoE 372 Subsurface Ventilation and Environmental Management (3 cr)~~  
~~Engr 320 Engineering Thermodynamics and Heat Transfer (3 cr)~~  
~~Min 352 Project Investment Analysis and Mgt or Engr 360 Engr Economy (3 cr)~~  
 Humanities and social sciences electives – must satisfy regulation J-3 and include at least ~~(1) one upper-division course that is the second course completed in that subject or (2) a course that has another humanities/social science course as a prerequisite~~ 6 cr of courses numbered 200 or above (15 cr)

## MATHEMATICS

1. Remove cross-listing with Stat and drop: **Math 253 Principles of Statistics** (3 cr). See Stat 251.

## MUSIC

1. Change prereq of: **MusA 145-146/245-246 Piano Class** (1 cr). May not be taken for audit. Four-semester beginning piano sequence. Two lec-labs a wk. Prereq for [MusA 145: perm. Prereq for](#) MusA 146: "C" or better in MusA 145 or perm; prereq for MusA 245: "C" or better in MusA 146; prereq for MusA 246: "C" or better in MusA 245.
2. Add: **MusA 210 Jazz Improvisation** (2 cr). Overview of basic jazz improvisation with an emphasis on style and basic jazz theory.
3. Change prereqs of: **MusC 139-140 Aural Skills I-II** (2 cr). Exercises and drill in sight-singing and ear training. Three lec-labs a wk. Prereq for [MusC 139: perm. Prereq for](#) MusC 140: "C" or better in MusC 139. Recommended coreq: MusA 145-146.
4. Add: **MusC 260 Introduction to Composition** (1 cr). Fundamentals of musical composition, using short original composition assignments to focus on common techniques used by past and contemporary composers and to develop skill in manuscript and notation. Active participation and performance is emphasized. Prereq or coreq: MusC 241 or perm.
5. Add: **MusH 360 Music of the Americas** (3 cr). A survey of musical styles from South, Central and North America. Includes Tango, Samba, Son, Klezmer, Cajun and others.
6. Add the following courses:
  - **MusH J452/J552 Vocal Repertoire I** (2 cr). Content will cover the development of solo vocal repertory c. 1600 through the 18th century, centering on the cultures of Italy, France, Germany and England. Additional projects/assignments reqd for grad cr. Prereq: Jr standing and perm. (Alt/yrs)
  - **MusH J453/J553 Vocal Repertoire II** (2 cr). Content will cover the development of solo vocal repertory primarily in the 19th and 20th century of Germany, France, Italy, England and the United States, with the development of nationalism included from other countries. Additional projects/ assignments reqd for grad cr. Prereq: Jr standing and perm. (Alt/yrs)
7. Add the following courses:
  - **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 reqd for grad cr. Prereq: Jr standing and perm. (Alt/Yrs)
  - **MusH J455/J555 Keyboard Repertoire II** (2 cr). Content will cover the development of keyboard literature from Schubert to present. Additional projects/assignments reqd for grad cr. Prereq: Jr standing and perm. (Alt/yrs)
8. Add the following courses:
  - **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 reqd for grad cr. Prereq: Jr standing and perm. (Alt/yrs)
  - **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 reqd for grad cr. Prereq: Jr standing and perm. (Alt/yrs)
9. Change description of: **MusX 283-284 (s) Diction for Singers** (2 cr). Two-semester sequence (English/Italian/[Latin](#) and [Spanish](#)/German/French) in study of language sounds as represented by the International Phonetic Assoc. ([Alt/yrs](#))

10. Change **Upper-Division Standing requirement in Lionel Hampton School of Music:**

**Upper-Division Standing (UDS).** For an undergraduate music major to enroll in MusA 324 or 334, or for a composition major to enroll in MusC 325, the student must have been granted upper-division standing (UDS). Except for double majors where one major is not in music, students applying for UDS must: (1) have completed three semesters of music theory (MusC 141/142/241), Aural Skills (MusC 139/140/ 239), one semester of music history (MusH 111), and three semesters of Piano Class (MusA 145/146/245), all with a grade of C or better; (2) have passed with a grade of C or better or be currently enrolled in Theory IV (MusC 242), Aural Skills IV (MusC 240), and Piano Class IV (MusA 246); and (3) have passed the requirements of the major area; this involves a special jury examination and demonstration of demonstrating the 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, 334, or MusC 325). Students who fail to pass the UDS requirements within three tries will be asked to leave the program.

11. Add emphasis to: **Music: Applied Music (BA or BS)**

Students may also complete an optional Emphasis in Jazz Performance by completing the following course work (12 cr):

MusC 329 Theoretical Basis of Jazz (2 cr)

MusH 410 Studies in Jazz History (3 cr)

MusA 210 Jazz Improvisation (2 cr)

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

12. Add emphasis to: **Music: History and Literature (B.A. or B.S.)**

Students may also complete an optional Emphasis in Jazz History by completing the following course work (12 cr):

MusC 329 Theoretical Basis of Jazz (2 cr)

MusH 410 Studies in Jazz History (3 cr)

MusA 210 Jazz Improvisation (2 cr)

MusH J440/J540 Studies in American Music (3 cr)

Electives in history, ensembles, combos, or applied study (2 cr)

13. Change curricular requirements of: **Music: Instrumental Performance (B.Mus.)**

**A. KEYBOARD . . .**

Music history elective MusH elective at the 400-level (3 cr)

**B. ORCHESTRAL INSTRUMENTS OR GUITAR . . .**

Music history elective MusH elective at the 400-level (3 cr)

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

MusC 329 Theoretical Basis of Jazz (2 cr)

MusH 410 Studies in Jazz History (3 cr)

MusA 210 Jazz Improvisation (2 cr)

Electives in ensembles, combos, or applied study (8 cr)

14. Change curricular requirements of: **Music: Vocal Performance (B.Mus.)**

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

MusH 451 Repertoire: Voice (2 cr)

MusH 452 Vocal Repertoire I (2 cr)

MusH 453 Vocal Repertoire II (2 cr)

Music history elective (3 cr)

15. Change curricular requirements of: **Music: Composition (B.Mus.)**

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

MusC 260 Introduction to Composition (1 cr)

Music history elective MusH elective at the 400-level (3 cr)

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

MusC 329 Theoretical Basis of Jazz (2 cr)

MusH 410 Studies in Jazz History (3 cr)

MusA 210 Jazz Improvisation (2 cr)

MusC 204 Special Topics: Jazz Arranging (2 cr)

Electives in composition, arranging, ensembles, or combos (6 cr)

16. Add options and change curricular requirements of: **Music Education: Vocal (B.Mus.)**

Required course work includes the university requirements (see regulation J-3) and [the specific requirements in one of the two sections below:](#)

**A. Voice**

- MusA 114 Individual Instruction: Piano (voice for piano majors; piano for voice majors)\* (4 2 cr)
- ~~MusA 314 Individual Instruction (voice for piano majors; piano for voice majors)\* (2 cr)~~
- MusA 124 Individual Instruction: Voice (8 cr)
- MusA 324 Individual Instruction: Voice (6 cr)
- MusA 145-146, 245-246 Piano Class (4 cr)
- MusA 151 or 152 Guitar Class for Music Majors (1 cr)
- MusA 380 Opera Workshop (1 cr)
- MusA 387, 487 Conducting I, II (4 cr)
- MusA 490 Half Recital (0 cr)
- MusC 139-140, 239-240 Aural Skills (6 cr)
- MusC 141-142, 241-242 Theory of Music (10 cr)
- MusC 328 Instrumental and Choral Arranging (3 cr)
- MusH 111 Introduction to Music Literature (3 cr)
- MusH 321, 322, 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 283-284 Diction for Singers (4 cr)
- Comm 101 Fundamentals of Public Speaking (2 cr)
- ED 201 Diverse Learners in Schools and Social/Cultural Contexts (3 cr)
- ED 301 Principles of Learning and Development in Education (3 cr)
- ED 302 Curriculum, Instruction, and Assessment Strategies (3 cr)
- EDTE 463 Literacy Methods for Content Learning (3 cr)
- Psyc 101 Introduction to Psychology (3 cr)
- Large ensemble (six different semesters chosen from MusA 116, 117, 316, 317) (6 cr)
- Other ensemble (one semester chosen from MusA 116, 117, 118, 316, 317, 318, 365, 380) (1 cr) (two semesters of MusA 315,

Accompanying, is reqd of students whose major performing medium is keyboard) (1-2 cr)

~~\*Keyboard majors must register for MusA 246. Voice majors must register for piano class before enrolling in applied piano instruction; any combination of piano class or applied piano (MusA 114/314) should equal a minimum of six credits. If the major instrument is other than voice, a minimum of six credits is required in any combination of class voice (MusA 147-148) or applied voice (MusA 114/314).~~

**B. Keyboard**

- MusA 147-148 Voice Class (2 cr)
- MusA 114 Individual Instruction: Voice (4 cr)\*
- MusA 124 Individual Instruction: Piano (8 cr)
- MusA 324 Individual Instruction: Piano (6 cr)
- MusA 246 Piano Class (1 cr)
- MusA 151 or 152 Guitar Class for Music Majors (1 cr)
- MusA 315 Accompanying (2 cr)
- MusA 380 Opera Workshop (1 cr)
- MusA 387, 487 Conducting I, II (4 cr)
- MusA 490 Half Recital (0 cr)
- MusC 139-140, 239-240 Aural Skills (6 cr)
- MusC 141-142, 241-242 Theory of Music (10 cr)
- MusC 328 Instrumental and Choral Arranging (3 cr)
- MusH 111 Introduction to Music Literature (3 cr)
- MusH 321, 322, 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 283-284 Diction for Singers \(4 cr\)](#)

[Comm 101 Fundamentals of Public Speaking \(2 cr\)](#)

[ED 201 Diverse Learners in Schools and Social/Cultural Contexts \(3 cr\)](#)

[ED 301 Principles of Learning and Development in Education \(3 cr\)](#)

[ED 302 Curriculum, Instruction, and Assessment Strategies \(3 cr\)](#)

[EDTE 463 Literacy Methods for Content Learning \(3 cr\)](#)

[Psyc 101 Introduction to Psychology \(3 cr\)](#)

[Large ensemble \(six different semesters chosen from MusA 116, 117, 316, 317\) \(6 cr\)](#)

[Other ensemble \(one semester chosen from MusA 116, 117, 118, 316, 317, 318, 365, 380\) \(1 cr\)](#)

[\\*Keyboard majors must register for voice class before enrolling in applied voice instruction.](#)

17. Add options to: **Music Education: Instrumental (B.Mus.)**

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

[MusC 329 Theoretical Basis of Jazz \(2 cr\)](#)

[MusH 410 Studies in Jazz History \(3 cr\)](#)

[MusA 210 Jazz Improvisation \(2 cr\)](#)

[MusC 204 Special Topics: Jazz Arranging \(2 cr\)](#)

[MusT 465 Jazz Band Rehearsal Techniques \(1 cr\)](#)

[Electives in ensembles, combos, or applied study \(5 cr\)](#)

## PLANT, SOIL, AND ENTOMOLOGICAL SCIENCES

1. Drop: **PISc 308 Forage and Grassland Management** (3 cr).

## PSYCHOLOGY

1. Change prereq and coreqs of: **Psyc 218 Introduction to Research in the Behavioral Sciences** (4 cr). Primarily for majors in psychology. Logic and method of empirical research in the behavioral sciences; design, execution, and reporting of psychological experimentation and research. Three lec and one 2-hr lab a wk. Prereq: [Psyc 101. Prereq or coreq: Stat 251.](#)
2. Change description and prereqs of: **Psyc 305 Developmental Psychology** (3 cr) (C). Conception ~~to preadolescence~~ [through late adolescence](#); genetics, anatomy, physiology, biological changes during development, learning, socialization, cognition, and personality. [Prereq: Psyc 101 or Ed 301.](#)
3. Change number, title, description, and prereqs of: **Psyc ~~309~~ 420 Personality and Social Development in Children** (3 cr) (C). Personality and social development from birth ~~to~~ [through](#) adolescence, including ~~areas of~~ [such topics as](#) attachment, aggression, impulse control, sex differences, ~~development of a sense of self~~ [concept, conscience moral](#) development, and effects of parental childrearing styles ~~upon child~~. Prereq: [Psyc 218, 101 and 305, or perm.](#)
4. Change prereqs of: **Psyc J325/J525 Cognitive Psychology** (3 cr). Survey and analysis of major topics in field; emphasis on contemporary research and theory; related topics in perception, memory, and information processing and transformation. Additional projects/assignments reqd for grad cr. Prereq: [Psyc 218 or perm 101.](#)
5. Change prereq of: **Psyc 372 Physiological Psychology** (3 cr) (C). Physiological bases of animal and normal human behavior. Prereq: [Psyc 101, and Biol 201 or 202, or perm 102 or higher.](#)
6. Change number and prereq of: **Psyc ~~409~~ 421 Cognitive Development** (3 cr). Intellectual development of child from birth to maturity, mechanisms of intellectual growth, relationship between language and cognitive development. Prereq: [Psyc 218, 101 and 305, or perm.](#)
7. Add: **Psyc 422 Disorders of Childhood and Adolescence** (3 cr). Overview of psychological disorders that affect children and adolescents; emphasis on how childhood mental illness is defined, diagnosed, and treated within multiple

theoretical perspectives. Examines how multiple, interacting events shape both adaptive and maladaptive developmental outcomes. Prereq: Psyc 101 and 305, or perm.

8. Change prereqs of: **Psyc 430 Tests and Measurements** (3 cr). Review of the major principles of test development including test construction and methods for determining test validity and reliability, some of the currently used scales, and study of scaling methods such as Thurstone scales, Likert scales, and semantic differentials. Prereq: [Psyc 218 101 and Stat 251, or perm.](#)
9. Change curriculum of: **Psychology Minor**  
 Biological/Experimental Bases of Behavior: ...  
[Psyc 430 Tests and Measurements](#)  
[Psyc 456 Psychology of Emotion](#)

## RANGELAND ECOLOGY AND MANAGEMENT

1. Change the curriculum of: **B.S.Rangeland.Ecol.Mgmt.**  
**First and Second Years . . .**  
[Math 160 Survey of Calculus \(4 cr\)](#)  
[NR 101 Forestry Orientation \(1 cr\)](#)  
[Rnge 200 Seminar \(1 cr\)](#)  
**Summer Session . . .**  
 A. RANGELAND ECOLOGY OPTION  
 First and Second Years . . .  
 Math 160 Survey of Calculus [or Math 170 Analytical Geometry and Calculus I](#) (4 cr)  
 Third and Fourth Years . . .  
[Rnge 430 Riparian Ecology and Management \(2 cr\)](#)  
 Restricted electives selected from the following (22 cr) . . .  
[Rnge 430 Riparian Ecology and Management \(2 cr\)](#)  
[Rnge 454 Rangeland Weed Management \(3 cr\)](#)  
 B. ENVIRONMENTAL ASSESSMENT OPTION  
 First and Second Years . . .  
 Math 160 Survey of Calculus [or Math 170 Analytical Geometry and Calculus I](#) (4 cr)  
 Third and Fourth Years  
 Restricted electives selected from the following (22 cr) . . .  
[For 394 Quantitative Resource Analysis \(3 cr\)](#)  
[ForP 230, 231 and 232 Forest Land Measurements I, II and III \(3 cr total\)](#)  
[Rnge 493 Environmental Law \(2 cr\)](#)  
[RRT 494 Natural Resource Communication \(3 cr\)](#)  
 C. RANGELAND MANAGEMENT OPTION  
 First and Second Years . . .  
 Math [143 Pre-calculus Algebra and Analytic Geometry](#) [or Math 160 Survey of Calculus](#) [or Math 170 Analytical Geometry and Calculus I](#) (4 cr)  
 Third and Fourth Years . . .  
[Rnge 430 Riparian Ecology and Management \(2 cr\)](#)  
[For 462 Watershed Management \(2 cr\)](#)  
 One of the following (2-4 cr) . . .  
[For 462 Watershed Management \(2 cr\)](#)  
[Rnge 430 Riparian Ecology and Management \(2 cr\)](#)  
[RRT 494 Natural Resources Communications](#) [or RRT 387 Environmental and Cultural Interpretation \(3 cr\)](#)
2. Change curriculum of: **Rangeland Ecology and Management Minor**  
 Two of the following courses (5-6 cr) . . .  
[Rnge 354 Wildland Vegetation Management and Restoration](#) [or Rnge 440 Wildland Restoration Ecology](#) (3 cr)  
 One of the following courses (or a course not chosen above) (2-3 cr) . . .  
[Rnge 458 Agroforestry \(3 cr\)](#)  
[Rnge 493 Environmental Law \(2 cr\)](#)  
[Rnge 454 Rangeland Weed Management \(3 cr\)](#)  
[WLF 290 Fish and Wildlife Ecology, Management, and Conservation \(3 cr\)](#)

## RESOURCE RECREATION AND TOURISM

1. Drop: **RRT 305 Field Research in Wilderness Ecology** (3 cr).

## SOCIOLOGY, ANTHROPOLOGY, AND JUSTICE STUDIES

1. Add the following cross-listed courses:
  - **Soc 301 Introduction to Diversity and Stratification** (3 cr). Same as Anth 301. An interdisciplinary and historical study of diversity and stratification in a cross-cultural global context. The course examines multiple forms of diversity and stratification including, but not limited to, culture, class, race/ethnic, gender/sexuality, religious diversity, and political ideology in an effort to raise students' ability to interact with and understand others in our increasingly multicultural world.
  - **Anth 301 Introduction to Diversity and Stratification** (3 cr). See Soc 301.
2. Change course number and prereqs of the following cross-listed courses:
  - **Soc ~~322~~ 427 Racial and Ethnic Relations** (3 cr). Same as Anth ~~322~~ 427. Examination of the social construction of racial categories and meanings; theories of race relations; historical and contemporary experiences of racial/ethnic groups in the U.S.; contemporary issues and debates. Prereq: Soc 101 and 3-credit lower division Soc course, or Soc/Anth 301.
  - **Anth ~~322~~ 427 Racial and Ethnic Relations** (3 cr). See Soc ~~322~~ 427.
3. Add: **Anth J432/J532 Historical Artifact Analysis** (3 cr). An overview and detailed study of the major classes of material culture commonly recovered on historical sites. Course emphasizes the identification of historical materials and introduction of a variety of analytical tools used in historical archaeology. Prereq: Anth 230 or 431 or perm.
4. Change course number, description, and prereq of: **Soc ~~324~~ 424 Sociology of Gender** (3 cr). Historical and comparative analysis of the various roles, statuses, and life opportunities of men and women; emphasis on how gender roles develop in society and their effect on social structure, social institutions, and interpersonal interaction; ~~consideration of both the women's and men's movements.~~ Prereq: Soc 101 and 3-credit lower division Soc course, or Soc/Anth 301.

## TEACHING, LEARNING, AND LEADERSHIP

1. Drop the following dormant courses:
  - EDTE 273 International Ed Scene (1-9 cr, max 9)
  - EDTE 411 The Junior High School (3 cr)
  - EDTE 419 Microcomputers in Math Teaching (1-2 cr)
  - EDTE 426 Org & Admin of School Media (3 cr)
  - EDTE 435 Elem School Student Teaching/Spec (3 cr)
  - EDTE 438 Elem School Math Lab (3 cr)
  - EDTE 439 Comparative Education (3 cr)
  - EDTE 443 Teaching Geography (3 cr)
  - EDTE 448 Production/Use of Media in Ed (3 cr)
  - EDTE 514 Logic of Teaching (3 cr)
  - EDTE 515 Logic of New Media (3 cr)
  - EDTE 517 Adv Elem School Math Ed (3 cr)
  - EDTE 520 Elem School Science and Social Studies (3 cr)
  - EDTE 523 Creative Arts and Creative Teaching (3 cr)
  - EDTE 531 Elem School Math Ed Research (3 cr)
  - EDTE 538 Student Teacher Supervision (3 cr)
  - EDTE 567 Clinical Pract. In Reading (3 cr)
  - EDTE 568 SEM: Research in Reading (3 cr)
  - EDTE 569 Teaching Reading Methods (3 cr)
  - EDTE 590 History of Education (3 cr)

2. Add: **EdAd 533 Multicultural Diversity and Educational Leadership** (3 cr). An introductory graduate-level course in educational administration with an emphasis on the diverse student population that we serve. Its aim is to examine what it means to lead educational organizations in a changing society. Specifically the course focuses on policy, theory and practice, as they relate to diverse school populations. Issues related to multicultural diversity will be drawn from readings as well as personal experiences. The goal of the class is to assist students in developing their own understanding and skills in becoming more effective leaders in organizations that affirm diversity.
3. Add the following Gifted/Talented courses:
  - **EDTE J414/J514 Creativity and Critical Thinking Skills for Gifted and Talented Students** (3 cr). This course is designed to develop the knowledge of critical thinking and creativity; awareness of cognitive and affective characteristics of creativity and critical thinking skills and how to foster and assess those skills within the Gifted/Talented population. Additional research project reqd for grad cr.
  - **EDTE J415/J515 Social and Emotional Needs of Gifted/Talented Students** (3 cr). This course is designed to examine the social-emotional characteristics of G/T students and to explore the relationship between the intellect and emotions of this special population. Additional research project reqd for grad cr.
  - **EDTE J417/J517 Curriculum and Instruction for Gifted and Talented Education** (3 cr). This course is designed to develop knowledge of Instructional Management Strategies for Differentiation of Instruction, Assessment, Curriculum Design including models and technologies, talent areas and connection with Administrative (Curriculum) Plans in the field of G/T Education. Additional research project reqd for grad cr.
  - **EDTE J419/J519 Foundations of Gifted/Talented Education** (3 cr). This course is designed to develop knowledge of the philosophy, rationale, and historical perspectives of Gifted and Talented education. Additional research project reqd for grad cr.
4. Change title and description of: **EDTE 423 Phonics Integrated Literacy in the Classroom** (1 cr). ~~Introduction to phonic and morphological patterns within words, how those patterns influence reading fluency; approaches and methods for teaching phonics~~ Facilitate intern teachers' understanding of literacy development and applications of appropriate literacy methods and materials. Interns will be expected to implement various approaches to the integration of reading, writing, speaking and listening and the selection of appropriate literature to support the content.  
Prereq: social studies/literacy/arts education block. Coreq: EDTE 484.
5. Add the following Methods courses:
  - **EDTE 440 Secondary English Methods I** (2 cr). Specific methods, research, curricula, and media in teaching Secondary English Methods.
  - **EDTE 441 Secondary English Methods II** (2 cr). Implementation of methods, research, curricula, and media in teaching Secondary English Methods. Prereq: EDTE 440. Coreq: EDTE 485
  - **EDTE 433 Secondary Science Methods I** (2 cr). Specific methods, research, curricula, and media in teaching Secondary Science Methods.
  - **EDTE 443 Secondary Science Methods II** (2 cr). Implementation of methods, research, curricula, and media in teaching Secondary Science Methods. Prereq: EDTE 433. Coreq: EDTE 485
  - **EDTE 434 Secondary Mathematics Methods I** (2 cr). Specific methods, research, curricula, and media in teaching Secondary Mathematics Methods.
  - **EDTE 454 Secondary Mathematics Methods II** (2 cr). Implementation of methods, research, curricula, and media in teaching Secondary Mathematics Methods. Prereq: EDTE 434. Coreq: EDTE 485
6. Change number of: **EDTE EdAd 525 Higher Education Accounting, Budgeting, and Finance** (3 cr). Provides a foundation for exploring the procedures and processes for providing financial support to institutions of higher education; the focus is on public institutions, and information about private institutions will be discussed as appropriate.
7. Add: **EDTE 568 Literacy Applications Through Computer Technology** (3 cr). Examines the use of technology, especially computer software, email, and internet/web resources for developing classroom literacy programs and units. The course explores means for evaluating literacy software, support materials, and student learning via computer technology.

8. Change curricular requirements of: **Elementary Education (B.S.Ed.)**

**Mathematics/Science/Social Studies/Physical Education Block:**

EDTE 327 Elementary Mathematics Education (2 cr)  
~~EDTE 328 Elementary Social Studies Education (2 cr)~~  
 EDTE 329 Elementary Science Education (2 cr)  
 PEP 350 Elementary Physical and Health Education (2 cr)

**Social Studies/Literacy/Arts Education Block:**

EDTE 321 Literature for Children (2 cr)  
 EDTE 322 Integrated Language and Literacy (2 cr)  
 EDTE 325 Elementary Art Education (2 cr)  
~~EDTE 328 Elementary Social Studies Education (2 cr)~~  
 Dan 360 Children's Dance (1 cr)  
 MusT 381 Elementary School Music Methods for Nonmajors (+ 3 cr)  
 TheA 404 ST:Drama in the Classroom (1 cr)

9. Change curricular requirements of: **Secondary Education (B.S.Ed.)**

Required course work includes the university requirements (see regulation J-3), the general requirements for students preparing to teach at the secondary level (see College of Education section in part 4), one course in special methods applicable to secondary schools (EDTE ~~474, 475, 476, 477, 478, 479~~ 423, 433, 434, 436, 437, H&S 323 or another approved special methods course), Literacy Methods for Content Learning (EDTE 463), and the satisfactory completion of one of the following options selected from the list headed Teaching Majors and Minors" in the College of Education section, above:

~~A. Two 30-credit teaching majors.~~

~~B. A. One 40-45-credit teaching major and one 20-credit teaching minor.~~

~~C. B. One 30-credit teaching major and two one 20-credit teaching minors.~~

~~D. One 60-credit teaching major.~~

10. Change curricular requirements of: **Art Teaching Major and Minor**

**A. ~~40-45-CREDIT ART TEACHING MAJOR . . .~~**

~~Art 110 Visual Communication (2 cr)~~

~~One Two art studio courses from the following: (Art 311, 314, 321, 331, 341, 351, ~~or 361~~, 371, 391, 392 (3 6 cr)~~

**B. ~~20-21-CREDIT ART TEACHING MINOR . . .~~**

~~Art 110 Visual Communication (2 cr)~~

~~Courses selected from Art 211, 214, 221, 231, 241, 251, 261, 271, 281, Comm 281, or Art 311, 314, 321, 331, 341, 351, 361, 371, 391, 392 (7 6 cr)~~

11. Change curricular requirements of: **Biological Science Teaching Major and Minor**

**BIOLOGICAL SCIENCES**

Note: ~~Organic chemistry is a prerequisite to required botany and zoology courses;~~ Math 143 is a prerequisite to required physics courses. A grade of "D" in any of the required courses listed below will not count toward completion of the degree in either the ~~62-~~ 62-credit composite teaching major or the ~~25- or 26~~ 24-credit composite teaching minor.

**A. ~~63-62-CREDIT COMPOSITE TEACHING MAJOR~~**

~~Biol 201 Introduction to the Life Sciences (4 cr)~~

~~Biol 202 General Zoology (4 cr)~~

~~Biol 203 General Botany (4 cr)~~

~~Biol 331 General Ecology (3 cr)~~

~~Biol 351 General Genetics (3 cr)~~

~~Bot 241 Systematic Botany (3 cr)~~

~~Bot 311 Plant Physiology (4 cr)~~

~~Bot 425 Developmental Plant Anatomy (3 cr)~~

Biol 111 Evolution and Diversity of Life (4cr)

Biol 112 Biological Principles and Mechanisms (4cr)

Biol 210 Genetics (4 cr)

Biol 212 Molecular and Cellular Biology (4 cr)

Biol 213 Principles of Biological Structure and Function (4 cr)

Biol 314 Ecology and Population Biology (4 cr)

Biol 411 Senior Capstone (2 cr)

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

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

Geog 100 Physical Geography or Geol 101 Physical Geology (4 cr)

MIMBB 250 General Microbiology (5 cr)

Phys 111-112 General Physics I-II (8 cr)

~~Zool 324 Comparative Vertebrate Anatomy or 472, 473 Developmental Biol and Lab (4 cr)~~

~~Zool 423 Comparative Vertebrate Physiology (4 cr)~~

~~Approved electives from molecular biology and biochemistry, biology, botany, entomology, or zoology (7 cr)~~

~~Electives (see list of electives for Biology major in Part 5) (12 cr)~~

**B. ~~25-OR-26~~ 24-CREDIT COMPOSITE TEACHING MINOR**

Note: One course in college chemistry is a prerequisite to Biol 201; organic chemistry is a prerequisite to Bot 311 and Zool 423.

~~Biol 201 Introduction to the Life Sciences (4 cr)~~

~~Biol 202 General Zoology (4 cr)~~

~~Biol 203 General Botany (4 cr)~~

~~Biol 331 General Ecology (3 cr)~~

~~Biol 351 General Genetics (3 cr)~~

~~Bot 241 Systematic Botany or 311 Plant Physiology or 425 Dev Plant Anatomy (3-4 cr)~~

~~Zool 324 Comparative Vertebrate Anatomy or 423 Comparative Vertebrate Physiology (4 cr)~~

Biol 111 Evolution and Diversity of Life (4 cr)

Biol 112 Biological Principles and Mechanisms (4 cr)

Biol 210 Genetics (4 cr)

Biol 212 Molecular and Cellular Biology (4 cr)

Biol 213 Principles of Biological Structure and Function (4 cr)

Biol 314 Ecology and Population Biology (4 cr)

12. Change curricular requirements of: **English Teaching Majors and Minors**

**A. ~~42-45~~ 45-CREDIT ENGLISH TEACHING MAJOR . . .**

Engl 201 English Grammar: Key Concepts and Terms (1 cr)

Engl 257 or 258 Literature of Western Civilization (3 cr)

Engl 291 or 292 Creative Writing Poetry or Fiction (3 cr)

Engl 341-or 342 Survey of British Literature (6 3 cr)

Engl 403 Teaching Writing in Secondary Schools (taken concurrently with EDTE 485) (3 cr)

Two linguistics courses (Engl 442, or 443, or 496-Linguistics; 443 may be taken concurrently with EDTE 485) (3 6 cr)

One literature course focusing on multicultural literature (Engl 380, 480, 483, 484; or 295, 404, 481, or 482 when those courses include a major and specific selection of American ethnic literature) (480 may be taken concurrently with EDTE 485) (3 cr)

**B. 33-CREDIT ENGLISH TEACHING MAJOR . . .**

Engl 201 English Grammar: Key Concepts and Terms (1 cr)

Engl 341-or 342 Survey of British Literature (6 3 cr)

Engl 401 Writing Workshop for Teachers (3 2 cr)

Engl 403 Teaching Writing in Secondary Schools (taken concurrently with EDTE 485) (3 cr)

One literature course focusing on multicultural literature (Engl 308, 480, 483, 484; or 295, 404, 481, or 482 when those courses include a major and specific selection of American ethnic literature) (480 may be taken concurrently with EDTE 485) (3 cr)

**C. 24-CREDIT ENGLISH TEACHING MINOR . . .**

Engl 201 English Grammar: Key Concepts and Terms (1 cr)

Engl 341 Survey of British Literature (3 cr)

Engl 343 Survey of American Literature (3 cr)

Engl 342 or 344 British or American Literature (3 cr)

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

Engl 401 Writing Workshop for Teachers (3 2 cr)

Engl 403 Teaching Writing in Secondary Schools (taken concurrently with EDTE 485) (3 cr)

Engl 445 Literature for Adolescents (3 cr)

One literature course focusing on multicultural literature (Engl 308, 480, 483, 484; or 295, 404, 481, or 482 when those courses include a major and specific selection of American ethnic literature) (480 may be taken concurrently with EDTE 485) (3 cr)

**D. 33-CREDIT ENGLISH TEACHING MAJOR THROUGH AMERICAN STUDIES . . .**

Courses in addition to those required for the literature emphasis of the American Studies degree: . . .

Engl 201 English Grammar: Key Concepts and Terms (1 cr)

Engl 403 Teaching Writing in Secondary Schools (taken concurrently with EDTE 485) (3 cr)

Engl 445 Literature for Adolescents (3 cr)

13. Change curricular requirements of: **English As A Second Language Teaching Minor**

**21-CREDIT ENGLISH AS A SECOND LANGUAGE TEACHING MINOR**

~~Engl 404 Special Topics: ESL Methods (3 cr)~~

~~Engl 441 Introduction to the Study of Language (3 cr)~~

~~Engl 442 Introduction to English Syntax (3 cr)~~

~~Anth/Soc 322 Racial and Ethnic Relations (3 cr)~~

Electives, of which at least two courses are in English language and linguistics (Anth 220 may be used for the third course) (9 cr)  
A practicum in ESL must be completed for an Idaho endorsement on a teaching certificate.  
Modern foreign language (100-level or above) (4cr)  
Cultural diversity (i.e. Anth 261) (3cr)  
ESL methods (i.e. EDTE 474) (3cr)  
Theory, philosophical foundations, testing/identification of limited English proficient students, or applied linguistics in ESL (i.e. Engl 441, 442 or 443) (3cr)  
Practicum or field experience in ESL (i.e. EDTE 402, EDTE 597, Engl 515) (1cr)  
At least one course in English language and linguistics (Engl 441, 442, 443) (3 cr)  
Electives to total 21 credits (Anth/Soc 322 Racial and Ethnic Relations is recommended)

14. Change curricular requirements of: **Journalism Teaching Major and Minor**

A. **37-CREDIT JOURNALISM TEACHING MAJOR . . .**

~~Comm 111 Introduction to Communication Studies (3 cr)~~  
Comm 112 Media and Society (3 cr)  
~~Comm 222 Reporting (3 cr)~~  
Comm 225 News Writing (3 cr)  
Comm 320 Information Gathering and Reporting (3 cr)  
Comm 442 Communication Law and Ethics (3 cr)  
~~Comm 424 324 News Editing and Production (3 cr)~~  
Five ~~Two~~ courses chosen from the following (~~15 6~~ cr): . . .  
~~Comm 265 Advertising and Society~~  
~~Comm 270 Digital Audio Production and Announcing~~  
Comm 291 Web Communication  
~~Comm 441 Ethics in Mass Communication~~  
~~Comm 445 History of Mass Communication~~  
~~Comm 448 Law of Mass Communication~~

B. **21-CREDIT JOURNALISM TEACHING MINOR . . .**

~~Comm 111 Introduction to Communication Studies (3 cr)~~  
Comm 112 Media and Society (3 cr)  
~~Comm 222 Reporting (3 cr)~~  
Comm 225 News Writing (3 cr)  
~~Comm 275 Introduction to Video/Television & Media Production (3 cr)~~  
One course from the following (3 cr):  
Comm 275 Introduction to Video Production  
Comm 281 Understanding Photography  
Comm 291 Web Communication  
Three courses chosen from the following (9 cr): . . .  
~~Comm 270 Digital Audio Production and Announcing~~  
Comm 275 Introduction to Video Production  
Comm 291 Web Communication (if not used above)  
Comm 320 Information Gathering and Reporting (3 cr)  
~~Comm 323 Public Affairs Reporting~~  
Comm 324 News Editing and Production (3 cr)  
~~Comm 354 Publications Editing~~  
Comm 401 or 498 Practicum in Communication or Internship  
~~Comm 441 Ethics in Mass Communication~~  
Comm 442 Communication Law and Ethics (3 cr)  
~~Comm 444 Communication and Public Opinion~~  
~~Comm 445 History of Mass Communication~~  
~~Comm 448 Law of Mass Communication~~

15. Change curricular requirements of: **Speech Teaching Major and Minor**

A. ~~33~~ **34-CREDIT SPEECH TEACHING MAJOR . . .**

~~Comm 101 Fundamentals of Public Speaking (2 cr)~~  
TheA 105 Basics of Performance (3 cr)  
Comm 112 Media and Society (3 cr)  
~~Comm 132 Oral Interpretation (2 cr)~~  
~~Comm 134 Nonverbal Communication (2 cr)~~  
~~Comm 235 Organizational Communication (3 cr)~~  
Comm 310 Communication Inquiry (3 cr)  
~~Comm 333 Interviewing (3 cr)~~

~~Comm 335 Intercultural Communication (3 cr)~~  
~~Comm 347 Persuasion or Phil 201 Critical Thinking (3cr)~~  
~~Comm 441 Ethics in Mass Communication (3 cr)~~  
~~EDTE 475 Secondary School English Methods (3 cr)~~  
~~EDTE 440/441 Secondary English Methods I/II (1-2 credits will be taken concurrently with EDTE 485) (4 cr)~~

**B. ~~23~~ 24-25-CREDIT SPEECH TEACHING MINOR . . .**

~~Comm 101 Fundamentals of Public Speaking (2 cr)~~  
~~Comm 111 Introduction to Communication Studies (3 cr)~~  
~~Comm 112 Media and Society (3 cr)~~  
~~Comm 132 Oral Interpretation (2 cr)~~  
~~Comm 331 Conflict Management (3 cr)~~  
~~TheA 105 Basics of Performance (3 cr)~~  
~~EDTE 475 Secondary School English Methods (3 cr)~~  
~~EDTE 440/441 Secondary English Methods I/II (1-2 credits will be taken concurrently with EDTE 485) (4 cr)~~  
~~Courses selected from those specified for the speech teaching major (7 cr)~~  
~~Two of the following courses (6 cr):~~  
~~Comm 310 Communication Inquiry (3 cr)~~  
~~Comm 331 Conflict Management (3 cr)~~  
~~Comm 335 Intercultural Communication (3 cr)~~  
~~Comm 347 Persuasion or Phil 201 Critical Thinking (3 cr)~~

16. Change curricular requirements of: **Theatre Arts Teaching Major and Minor**

**A. ~~41~~ 45-46-CREDIT THEATRE ARTS TEACHING MAJOR . . .**

~~TheA 150 Performance Lab (1 cr)~~  
~~TheA 190 Theatre Practice (2-3 cr)~~  
~~TheA 390 Theatre Practice (2-3 cr)~~  
~~TheA 467-468-469 The Theatre History I & II (6 cr)~~

**THEATRE ARTS-SPEECH**

**~~43~~ 46-CREDIT COMPOSITE TEACHING MAJOR . . .**

~~Comm 101 Fundamentals of Public Speaking (2 cr)~~  
~~Comm 111 Introduction to Communication Studies (3 cr)~~  
~~Comm 112 Media and Society (3 cr)~~  
~~Comm 132 Oral Interpretation (2 cr)~~  
~~Comm 134 Nonverbal Communication (2 cr)~~  
~~Comm 347 Persuasion or Phil 201 Critical Thinking (3 cr)~~

**THEATRE ARTS**

1. Change title, description, and prereqs of: **TheA 100 U.S. Contemporary Freshman Theatre Seminar** (3 cr). An in-depth examination of contemporary U.S. theatre artists and their work including modern practitioners' methods and philosophies. Course explores collaborative theatrical processes and the roles and responsibilities of theatre practitioners. Focus is also given to discipline-based research and writing methods. Prereq: Theatre majors & minors only.
2. Add: **TheA 311 Tailoring Techniques** (3 cr). Men's and women's contemporary & traditional tailoring techniques for costume, stage & apparel. Prereq: TheA 104 or perm, and FCS 224.
3. Drop the following courses:
  - **TheA 372 Methods in Characterization** (3 cr).
  - **TheA 373 Advanced Acting** (3 cr).
  - **TheA J407/J507 Acting Shakespeare** (3 cr).
  - **TheA J408/J508 Styles of Acting** (3 cr).
4. Add: **TheA 425 BFA Acting Studio** (3 cr, max arr). Rigorous study and practice in performance. Areas of specialization may include: Shakespeare, Devising, Commedia del'arte, Period Styles, Asian Theatre, Animals, Realism, Comedy. The course will be repeated each semester by BFA candidates. Prereq: Acceptance into BFA prog.
5. Drop TheA J467/J567 and change course title and description of:

**TheA J467-J468/J567-J568 The Theatre History I** (3 cr). ~~Survey of European and American theatres, dramatists, and actors from the Greeks to Ibsen~~ The comprehensive survey of the major theatrical trends, theorists, and practitioners from the Golden Age of Greece until the early 19<sup>th</sup> Century. Additional projects/assignments reqd for grad cr. Prereq: TheA 371 or perm of dept. (~~Alt/yrs~~)

6. Change title and description of: **TheA J469/J569 Modern Theatre History II** (3 cr). ~~History of the movements, personalities, and representative plays of the modern theatre from Ibsen, Strindberg, and Chekhov through the present~~ The comprehensive survey of the major theatrical trends, theorists, and practitioners from 1875 to the present contemporary theatre scene. Additional projects/assignments reqd for grad cr. Prereq: TheA 371 or perm of dept.
7. Add: **TheA 516 MFA Graduate Seminar** (2 cr, max arr). An in-depth, rigorous, exploration of theatrical research and collaboration pedagogy and methodologies within the larger context of the artistic, creative process. Two semesters required, course may be repeated. Prereq: Acceptance into MFA prog.
8. Add: **TheA 525 MFA Acting Studio** (3 cr, max arr). Rigorous study and practice in performance. Areas of specialization may include: Shakespeare, Devising, Commedia del'arte, Period Styles, Asian Theatre, Animals, Realism, Comedy. The course will be repeated each semester by MFA candidates. Prereq: Acceptance into MFA prog.
9. Change curricular requirements for: **Theatre Arts (B.S. or B.S.)**  
~~TheA 467-468-469 The Theatre (9 cr)~~  
~~TheA 468 Theatre History I (3 cr)~~  
~~TheA 469 Theatre History II (3 cr)~~  
~~Electives in acting/directing (upper division) (3 cr)~~

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## FOR THE FACULTY'S INFORMATION

### Changes to cooperative courses approved since the last general curriculum report:

(ID = taught at UI only, WS = taught at WSU only, ID&WS = can be taught at both UI & WSU)

1. Change cooperative status, course number, description, and prereq of [Summer 2002]:  
**BSyE & AgE BAE WS457 Design for Watershed Management** (3 cr). WSU BSyE 457. Selection, application and evaluation of models and modeling techniques to solve watershed level problems. Topics include watershed assessment, hydrologic and pollutant transport processes, solution methods, GIS techniques related to modeling, scaling issues, sensitivity analysis, evaluation of management practices, commonly used modes in hydrology. Prereq: BAE 355 or CE 325.
2. Add: **FCS WS555 Effective Intervention Programs** (3 cr). WSU HD 540. [Summer 2002]
3. Change prereqs of: **FST ID220 Food Safety and Quality** (3 cr). WSU FSHN 220. ~~Prereq: FST 170 or FCS 170.~~ [Spring 2002]
4. Change prereq of: **FST WS303 Food Processing** (3 cr). WSU FSHN 303. Specialized techniques and concepts of food processing and marketing. Field trip reqd. ~~Prereq: MMBB 250, Chem 275, and 276 recommended.~~ [Spring 2002]
5. Drop: **FST WS407 Food Product Development** (2 cr). WSU FSHN 404. [Spring 2002]
6. Add: **FST ID-J464/ID-J564 Food Toxicology** (3 cr). WSU FSHN 464/565. General Principles of Toxicologic evaluation of chemicals which intentionally or unintentionally enter the food chain. Toxicology of food additives, colors, preservatives, drugs, pesticides, and natural toxins in foods and risk characterization. Additional projects/assignments reqd for grad cr. Prereq: MMBB 300 or 380. [Summer 2002]

7. Change number of: **FST WS-J487482/WS-J587582 Food Process Engineering Design** (3 cr). WSU BSysE 482/582. Fundamentals for design of food processing systems; food properties; thermal and physical processes. Prereq: FST 433. [Spring 2002]
8. Change credit hours of: **Geog WS-J444/WS-J544 Environmental Assessment** (**3 4** cr). WSU ES/RP 444. [Spring 2002]
9. Change title and description of: **PISc ID&WS-J433/ID&WS-J533 Experimental Approaches to Plant Regeneration Tissue Culture Techniques** (3 cr). WSU Hort/CropS 533. Laboratory-oriented course involving tissue culture techniques ~~used to~~with an emphasis on regenerateing herbaceous and woody plant species from organs or tissues. Requirements for grad cr include completion of a special project and report. One lec and 5 hrs of lab a wk. Prereq: Bot 311 and PISc 202 or Bot J401/J510, or perm. (Alt/yrs) [Spring 2002]
10. Add: **PISc WS526 Advanced Fungal Biology** (4 cr). WSU PI P 526. [Spring 2002]
11. Change title, description, and prereq of: **Rnge ID560 Plant Autecology Ecophysiology** (3 cr). WSU NATRS 524. Adaptations of individual plant species ~~in rangeland and forest communities; to their environment~~, emphasizing ~~morphological and physiological~~ ecophysiological mechanisms that influence plant establishment, the physical environment, below- and above-ground productivity, and plant ~~competition, and grazing sensitivity~~ interaction such as competition, herbivory, and allelopathy. ~~Two days of field trips~~. Prereq: A course in general ecology (i.e. Rnge 221, Bot or Biol 311) and general botany, or perm. [<http://www.uidaho.edu/ecology>]
12. Add cooperative status to: **RRT ID287 Professional Foundations of Resource Recreation and Tourism** (3 cr). WSU NATRS 371. Overview of development and management of wildland recreation and tourism resources and their integration into a political, economic, behavioral, and land use management framework; philosophical, theoretical, historical, and managerial foundations of leisure as they relate to societal trends in leisure from the perspective of the individual and society; contemporary issues, including special populations, ethnicity, and diversity. [Summer 2002]
13. Add: **Soil WS521 Environmental Soil Chemistry** (3 cr). WSU Soils 521. [Spring 2002]