

General Curriculum Report #219

UNIVERSITY OF IDAHO - REGISTRAR'S OFFICE

April 8, 2002

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.

BIOLOGICAL SCIENCE

1. Change title, credits, and course description of: **Biol 405 Biological Lab Procedures Practicum in Anatomy Laboratory Teaching** (~~4~~ or 2 cr). Organization, preparation, and ~~assisting in lab experiments or demonstrations~~ teaching of anatomy laboratory objectives under faculty supervision. Graded P/F. Prereq: perm. (*Effective: Summer 2003*)
2. Add course: **Biol 407 Practicum in Biology Laboratory Teaching** (4-6 cr). Organization, preparation, and teaching of lab experiments or demonstrations under faculty supervision. Prereq: Any four of the following courses: Biol 111, 112, 210, 212, 213, or 314; and perm. (*Effective: Spring 2003*)

FAMILY AND CONSUMER SCIENCES

1. Add course: **FCS 251 Survey of FCS Professions** (1 cr). Web delivered, survey course for students considering a career in Family and Consumer Sciences, particularly teaching. Televised interviews with professionals in a variety of FCS careers, and an in-depth look at teaching as a career. An advising meeting with the FCS Teacher Educator is required to explain the requirements of the program. Coreq: Ed 201. (*Effective: Spring 2003*)
2. Change credits and description of: **FCS 333 Developmental Curriculum for Young Children** (~~3~~ 4 cr). Principles and practices of a developmentally based curriculum, assessment, intervention, and evaluation. ~~Two~~ Three hrs of lec and two hrs of lab a wk. Prereq: FCS 235 or perm. (Spring only) (*Effective: Summer 2003*)
3. Change credits and description of: **FCS 384 Quantity Food Production and Equipment** (~~5~~ 3 cr). Food production in large volume; use and selection of institutional equipment and food; supervised practice in food service. Three hrs of lec, ~~1 hr of recitation, and 5 hrs of supervised practice~~ a wk. Prereq: FCS 270 or perm. (*Effective: Summer 2003*)
4. Add course: **FCS 385 Quantity Food Production Lab** (2 cr). Lab to accompany FCS 384 for students accepted into CPD program only. One 3-hour lab and one recitation per wk. Prereq: FCS 270. Coreq: FCS 384. (*Effective: Summer 2003*)
5. Change description of: **FCS 387 Food Systems Management** (3 cr). Institutional organization and management; supervised practice in food service. ~~Two~~ Three lec ~~and 3 hrs of supervised practice~~ a wk. Prereq: FCS 384 or perm. (*Effective: Summer 2003*)
6. Add course: **FCS 388 Food Systems Management Lab** (1 cr). Lab to accompany FCS 387 for students accepted into CPD program only. One 3-hour lab per wk. Prereq: FCS 384. Coreq: FCS 387. (*Effective: Summer 2003*)
7. Drop course: **FCS 444 Diverse Populations and Individual Differences** (2-3 cr). See ACTE 444. (*Effective: Summer 2003*)
8. Drop course: **FCS 460 Family as an Ecosystem** (3 cr). (*Effective: Summer 2003*)

9. Add course: **FCS 470 Curriculum Portfolio in FCS Education** (2 cr). Professional portfolio preparation based on internship activities for the College of Education Exit Standards. Coreq: FCS 469 and 471. (*Effective: Summer 2003*)
10. Change title, credits, description, and coreqs of: **FCS 471 Student Teaching Internship in Family and Consumer Sciences Education** (40 ~~12~~ cr). ~~Ten~~ **Sixteen** weeks of practical experience in secondary family and consumer sciences program; ~~one week of field-based experience at assigned student teaching center before beginning of semester is required~~. Prereq: admission to teacher education, FCS 450. Coreq: FCS 469 and 470. (*Effective: Summer 2003*)

FOOD SCIENCE AND TOXICOLOGY

1. Add course: **FST 590 Food Science Research Seminar** (1 cr, max arr). Current topics and research in food science and related areas. Prereq: perm. (*Effective: Spring 2003*)

GEOLOGICAL SCIENCE

1. Move the following courses to dormant status (*Effective: Summer 2002*):
 - Geol **ID&WS103 The Solar System** (3 cr). WSU Geol 103.
 - Geol **J419/J519 A World History of Mining, Metals, and Materials** (3 cr). Same as Met and Min J419/J519.
 - Geol **430 Topics in Geomorphology/Geologic Hazards** (3 cr).
 - Geol **ID524 Hydrostratigraphy** (3 cr).
 - Geol **525 Stratigraphic Paleobotany** (3 cr).
 - Geop **J423/J523 Seismic Stratigraphy** (3 cr).
2. Drop courses as follows: (*Effective: Summer 2003*)
 - ~~Geol 405 Earth Sciences~~ (3 cr). ~~Integration of, and current issues in, the earth sciences (astronomy, geology, meteorology, oceanography) as applied to earth science education. Three lec and one 2-hr lab a wk; two field trips. Prereq: Geog 100, and Geol 101 or 111 (Geog 401 and Phys 103-104 recommended).~~
 - ~~Geol 408 Field Methods in the Earth Sciences~~ (3 cr). ~~Observation and collection of data in the field and using the data for practical application of the earth sciences; course may be accelerated. Three lec and one 2-hr lab a wk; three field trips. Prereq: Geol 101 or 111, and Geol 335.~~
 - Geol ~~ID-J415/ID-J515~~ **Paleoecology** (3 cr). WSU Geol 515. Ecological dynamics as applied to the paleontologic record; preservation constraints; animal-sediment interactions; organisms' role in the relative time scale. ~~Different term paper reqd for grad cr.~~ Two lec and one seminar-style meeting a wk; one 5-day field trip to Oregon Coast.
 - Geol ~~ID&WS-J441/ID&WS-J541~~ **Structural Analysis** (3 cr). WSU Geol 541. Structural analysis of complexly deformed rocks in orogenic belts. Field trip required.
 - Geol ~~ID-J442/ID-J542~~ **Geomechanics** (3 cr). Same as GeoE ~~J442/J542~~. Concepts of linear elastic fracture mechanics as applied to the classification, origin and evolution of all types of rock fractures; continuum theory in rock mechanics; rock strength and failure criteria; stress tensors; elastic theory. ~~Graduate student enrollment requires a term project.~~ Two 1-day field trips. Prereq: Phys 111 or 211, Math 175.
 - GeoE ~~ID-J442/ID-J542~~ **Geomechanics** (3 cr). See Geol ~~J442/J542~~.
 - Geol ~~J455/J555~~ **Thermochemistry of Geological Processes** (3 cr). Thermodynamic principles applied to geological problems; specific topics include real gases at high P and T, estimation and measurement of thermodynamic data, solid solution modeling, geobarometry, geothermometry, thermodynamics of magmas. ~~Additional projects/assignments reqd for grad cr.~~ Prereq: Chem 302 or perm. (Alt/yrs)
 - Geol ~~J456/J556~~ **Geological Reaction Rates and Diffusion** (3 cr). Chemical kinetics applied to geological sciences; diffusion in crystals, melts and fluids; crystal growth and nucleation; geospeedometry; dissolution and precipitation

kinetics; weathering rates; crystal defects. ~~Additional projects/assignments reqd for grad cr.~~ Prereq: Chem 302 and Geol ~~J455/J555~~, or perm. (Alt/yrs)

- Geol ~~J457/ID-J557~~ **High-Temperature Aqueous Geochemistry I** (3 cr). WSU Geol 557. Application of solution chemistry to hydrothermal solutions; Eh-pH, log f(O₂) - pH, activity - activity diagrams; estimation techniques; water structure; metal complexation; solubility, transport and deposition; equilibrium speciation; geothermal fields; experimental methods; activity coefficients. ~~Additional projects/assignments reqd for grad cr.~~ Two lec and three hrs of lab a wk; one 4-day field trip. Prereq: Chem 302 and Geol ~~J455/J555~~ or perm. (Alt/yrs)
- Geol ~~J458/ID-J558~~ **High-Temperature Aqueous Geochemistry II** (3 cr). WSU Geol 558. Expands on topics covered in Geol ~~J457/J557~~ through seminar format. Selected readings from primary literature followed by presentations and discussions in class. ~~Additional projects/assignments reqd for grad cr.~~ Prereq: Chem 302, Geol ~~J455/J555~~ and ~~J457/J557~~, or perm. (Alt/yrs)
- Geol ~~J478/J578~~ **Advanced Geochemistry of Natural Waters** (3 cr). Detailed application of aqueous geochemistry to natural waters at an advanced level; advanced treatment of subjects introduced in Geol J468/J568, plus computer modeling of aqueous equilibria; accompanying lab will stress familiarity with analytical techniques including those adaptable for field use. ~~For graduate credit, s~~Students must complete an in-depth term project involving design, execution, and interpretation of analyses of a contaminated water. Two lec and 3 hrs of lab a wk; one 2-day field trip. Prereq: Geol J468/J568 or perm.
- Geol ~~J487/J587~~ **Instrumental Techniques in Geochemistry** (3 cr). Modern instrumentation for geochemical analyses including: ion chromatography, gas chromatography, FTIR spectroscopy, ICP-AES, ICP-MS, atomic absorption, UV-visible absorption spectrophotometry, geological sampling preparation. ~~For graduate credit, s~~Students must carry out a term project involving the design, testing, and use of analytical protocol using one or more of the instruments covered in class; this project will be reported as a term paper worth a significant proportion of the grade and must reflect an in-depth understanding of the subject material. Two lec and one 3-hr lab a wk. Prereq: perm. (Alt/yrs)
- Geol ~~J488/ID-J588~~ **Isotope Geology** (3 cr). WSU Geol 588. Laboratory applications of radioactive isotopes; geochronology and isotopes as tracers. ~~Cr earned in Geol 588 by completion of term project.~~ One lec and 4 hrs of lab a wk. Prereq: perm. (Alt/yrs)

3. Change credits of: **Geol J468/J568 The Geochemistry of Natural Waters** (~~2~~ 3 cr). (*Effective: Summer 2003*)

4. Add joint graduate-level number and change description of:

Hydr ~~J412/J512~~ Environmental Hydrogeology (3 cr). Methods of hydrogeologic site characterization for the delineation of environmental problems such as contaminated ground water plumes, and ground water dewatering for landslide remediation. ~~For graduate credit, students will be required to complete an additional, independent research paper/project.~~ Prereq: Geol 309 or Hydr 463. (*Effective: Spring 2003*)

5. Change curricular requirements of: **B.S.Geol. Geology** (*Effective: Summer 2003*)

B. HYDROGEOLOGY OPTION

Hydrogeology electives chosen from the following, including at least 6 credits in Hydr courses (18 cr): . . .

~~Geol 478 Advanced Geochemistry of Natural Waters (3 cr)~~

~~Geol 468 The Geochemistry of Natural Waters (3 cr)~~

D. ENVIRONMENTAL GEOLOGY OPTION

Environmental geology electives chosen from the following (9 cr): . . .

~~Geol 478 Advanced Geochemistry of Natural Waters (3 cr)~~

~~Geol 468 The Geochemistry of Natural Waters (3 cr)~~

HISTORY

1. Remove from dormant status and redisplay in the catalog: **Hist 366 Intellectual and Cultural History of Modern Europe** (3 cr). Evolution of attitudes and values of European societies during the 19th and 20th centuries; influence of key events and ideas, including those of Marx, Darwin, Freud, Einstein, and Sartre. (*Effective: Spring 2003*)

LAW

1. Add course: **Law 977 Clinical Lab** (1 cr, max 4). The College offers one-credit lab courses that provide clinical experience for interested second- and third-year students. The labs are designed to allow students to obtain practical experience in conjunction with upper-division substantive courses. The labs are supervised by experienced practitioners. (*Effective: Spring 2003*)

MICROBIOLOGY, MOLECULAR BIOLOGY & BIOCHEMISTRY

1. Add course: **MMBB J432/J532 Virology** (3 cr). A survey of virology, with special emphasis on the molecular basis of replication, host-pathogen interactions and diseases associated with animal viruses. Extra oral and/or written assignments reqd for grad cr. Prereq: MMBB 380, and Biol 210 or Gene 314, or perm. Recommended preparation: MMBB 250. (Fall only) (*Effective: Fall 2003*)

PLANT, SOIL AND ENTOMOLOGICAL SCIENCES

1. Add course: **PlSc 470 Arboriculture** (3 cr). Arboriculture addresses the science behind tree selection and maintenance practices. Laboratories in each section will provide "hands-on" experiences examining mechanisms of tree growth and survival and the arboricultural tools and practices used to enhance these traits in urban landscapes. Recommended preparation: PlSc 464 and/or For 408. (*Effective: Spring 2003*)
2. Drop course: **Ent 110 Insects and Humans** (2 cr). (*Effective: Summer 2003*)
3. Drop course: **Ent ID510 Historical Development of Biological Control** (1 cr). WSU Entom 510. (*Effective: Summer 2003*)

WWAMI MEDICAL EDUCATION PROGRAM

1. Add course: **MedS ID&WS590 Critical Reading of the Medical Literature** (1 cr). WSU Med S 590. An examination of medical literature for the purpose of primary research, diagnosis, and therapeutic and preventative intervention. (*Effective: Spring 2003*)

FOR THE FACULTY'S INFORMATION

The changes to BAE 457/557 were listed incorrectly in General Curriculum Report 218. The following correctly lists the changes that were approved.

1. Change cooperative status, course number, title, description, and prereq of:
BSyE & AgE BAE ID&WS-J457/ID&WS-J557 Design Hydrolic Modeling for Watershed Management (3 cr). WSU BSyE 457/557. 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. (*Effective: Summer 2002*)

The following are changes to cooperative courses that have been 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. Drop course: **Ent J452/ID&WS-J552 Applied Biological Control: Arthropod Pests** (1 cr). WSU Entom 552. (*Effective: Spring 2002*)

2. Drop course: **Ent J453/ID-J553 Applied Biological Control: Microbial Control** (1 cr). WSU Entom 553. (*Effective: Spring 2002*)
3. Add cooperative status with WSU, add joint-listing with FST, change title, and delete prereq of:
 - **FCS ID170 Introductory Foods Food: Science and Practice** (3 cr). Same as FST ID170. WSU FSHN 170. Fundamental processes underlying food preparation with emphasis on physical and chemical aspects. Two lec and one 3-hr lab a wk. Prereq: 3 cr of Chem 101 or 111. (*Effective: Spring 2002*)
 - **FST ID170 Food: Science and Practice** (3 cr). See FCS 170. WSU FSHN 170. (*Effective: Spring 2002*)
4. Drop course: **FST WS301 Dairy Products** (3 cr). WSU FSHN 301. (*Effective: Spring 2002*)
5. Add course: **FST WS-J429/WS-J529 Dairy Products** (4 cr). WSU FSHN 429/529. Dairy chemistry, microbiology, sanitation, product development and processing from cow to consumer. Prereq: MMBB 250 and 300. (*Effective: Spring 2002*)
6. Drop course: **FST WS-J450/WS-J550 Food Fermentations** (3 cr). WSU FSHN 450/550. (*Effective: Spring 2002*)
7. Add course: **FST WS-J465/WS-J565 Wine Microbiology and Processing** (3 cr). WSU FSHN 465/565. Technical principles related to the processing and fermentation of wines with an emphasis on microbiology. Prereq: MMBB 250 and MMBB 300. (*Effective: Spring 2004*)
8. Change credits of: **Geol WS470 Introduction to Economic Geology** (~~3~~ 4 cr). WSU Geol 470. (*Effective: Summer 2002*)