

General Curriculum Report #225

UNIVERSITY OF IDAHO - REGISTRAR'S OFFICE

March 14, 2003

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 Letters Arts and Social Sciences or in the College of Agricultural and Life Sciences, and is signed by five faculty members of the respective college, those items will be returned to the college concerned for further consideration.

ANIMAL AND VETERINARY SCIENCE

Change the title, credits, description and prerequisites of the following course [Effective: Summer 2004]

AVS 221 ~~Growth and Development of Farm and Companion Animals~~ Molecular and Cellular Biology (3-4 cr). ~~Course involves general biology of farm and companion animals. Topics include biochemistry, cellular biology, growth biology, physiology, endocrinology, and metabolism related to domestic agricultural and companion species. Same as Biol 212. Current theory and experimental basis of the structure/function of eukaryotic cells. Topics include plasma membrane, organelles, cytoskeleton and cell mobility, the nature of genes, gene expression, DNA replication and cellular reproduction, and signal transduction. Three lec and one 3-hr lab a wk. Prereq: Biol 115. (Fall only).~~

BIOLOGICAL & AGRICULTURAL ENGINEERING

1. Change the curricular requirements of **Agricultural Engineering (B.S.Ag.E.)** [Effective: Summer 2003]

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

Econ 201, 202 or 272 (3 or 4 cr)

Phil 103 Ethics (3 cr)

Computer science elective in a programming language (2 cr)

Humanities and social sciences electives (14 cr)

Humanities and social sciences electives to satisfy UI core requirements listed in J-3.

Technical electives – may include upper-division biological science and must include at least two formal 400-level

Biological and Agricultural Engineering (11 cr)

Undesignated electives (4 cr)....

2. Change the curricular requirements of **Biological Systems Engineering (B.S.B.Sy.E.)** [Effective: Summer 2003]

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

Econ 201, 202 or 272 (3 or 4 cr)

Phil 103 Ethics (3 cr)

Biological science electives (3 cr)

Communications elective (2 cr)

Computer science elective in a programming language (2 cr)

Technical electives (may include upper-division biological sciences, and must include at least two formal 400-level courses in Biological and Agricultural Engineering) (12 cr)

Humanities and social sciences electives (14 cr)

Humanities and social sciences electives to satisfy UI core requirements listed in J-3.

Undesignated electives (3 cr)....

BIOLOGICAL SCIENCES

Change the description, and cross list the following course [Effective: Summer 2004]

Biol 212 **Molecular and Cellular Biology** (4 cr). ~~Same as AVS 221. Information flow within the cell, from DNA to proteins, basic molecular techniques, cellular architecture and cellular processes. Current theory and experimental basis of the structure/function of eukaryotic cells. Topics include plasma membrane, organelles, cytoskeleton and cell mobility, the nature of genes, gene expression, DNA replication and cellular reproduction, and signal transduction. Three lec and one 3-hr lab a wk. Prereq: Biol 115. (Fall only).~~

ELECTRICAL AND COMPUTER ENGINEERING

1. Remove cooperative status from the following course [**Effective:** Summer 2004]
ECE ~~ID&WS455~~ **Information and Coding Theory** (3 cr) (EE 455). ~~WSU E-E 451~~. Introduction to information theory; information content of messages; entropy and source coding; data compression; channel capacity data translation codes; fundamentals of error correcting codes; linear block and convolutional codes; introduction to trellis-coded modulation. Prereq: Math 330 and Stat 301.
2. Add cooperative status to the following course [**Effective:** Summer 2004]
ECE ~~ID&WS452~~ **Communication Systems** (3 cr) (EE 452). ~~WSU EE 451~~. Introduction to modern communication systems; baseband pulse and data communication systems; communication channels and signal impairments; filtering and waveform shaping in the time and frequency domain; carrier-modulation for AM and FM transmission; bandpass digital and analog communication systems; comparison of system performance. Prereq: ECE 350. (Alt/hrs)

FOREST RESOURCES

1. Add the following dormant course [**Effective:** Summer 2004]
For **569 Advanced Forest Entomology** (3 cr) Methods and applications of biological ~~and economic~~ evaluation and control strategies of forest insect populations in relation to pest management programs. One 2-hr seminar and one 2-hr lab a wk; ~~two 1-day field trips~~. Prereq: For ~~467~~ ~~466 or perm~~. (Alt/hrs, Spring)
Enforce the prerequisites: Yes
2. Change the curricular requirements of Forest Resources (B.S.For.Res.) [**Effective:** Summer 2004]
The minimum number of credits for the degree is 128. ~~This does not include Math 143, Phys 100 or 111 or high school physics, and other courses that might be required to remove deficiencies.~~
Required course work includes the university requirements (see regulation J-3) and:
Biol 115 Cells and the Evolution of Life (4 cr)
~~Biol 203 General Botany (4 cr)~~
~~Biol 116 Organisms and Environments (4 cr)~~
Chem 101 Introduction to Chem I or Chem 111 Principles of Chem I (4 cr)....
Math 160 Survey of Calculus or Math 170 Analytic Geom and Calculus (4 cr)
~~NR 101 Exploring Natural Resources (1 cr)~~
~~Phys 100 Fundamentals of Physics or Phys 111 General Physics 1 (4 cr)*~~
Soil 205, 206 The Soil Ecosystem and Lab (4 cr)
Stat 251 Principles of Statistics (3 cr)
Two of the following courses (4-6 cr):
Fish/WLF 290 Fish and Wildlife Ecology, Management, and Conservation or Fish 314 Fish Ecology or WLF 314 Wildlife Ecology I
ForP 250 Principles of Forest Products
Rnge 251 Principles of Range Resources Management
RRT 287 Principles of Resource Recreation and Tourism Management
Humanities and social science courses (11 cr)
*Course requirement will be waived if student has taken one year of high school physics (must be on high school transcript)

And one of the following options:

A. Business Minor Option....

B. Forest Ecosystem Management Option

- For 320 Dendrology (3 cr)....
- Social/political environment restrictive elective (2-3 cr):
- For 484 Forest Policy and Administration (2 cr)
- PoIS 464 Politics of the Environment (3 cr)
- RRT 486 Public Involvement in Natural Resource Management (3 cr)
- ~~WLF/Rnge 493 Environmental Law (2 cr)~~
- Electives to total 128 credits for the degree

C. Science Option....

RESOURCE RECREATION AND TOURISM

Add the following course [**Effective:** Summer 2004]

RRT **580 Restoration Ecology Practicum** (2 cr) Capstone experience in the Restoration Ecology Certificate Program. Students work independently to develop plan for implementing and assessing the success of ecological restoration; plan must synthesize literature, concepts, and challenges; plan shall be written with graphics and electronic submission for possible Internet publication. Prereq: Fish 513 or For 526, and Rnge 440 or perm.

Enforce the prerequisites: Yes

TEACHING, LEARNING AND LEADERSHIP

Add the following course [**Effective:** Summer 2004]

LibS C426 Information Literacy for the Library Media Specialist (3 cr) Explores the role of the Library Media Specialist (LMS) in providing information literacy instruction. Defines information literacy, as well as places it in a national, state and local framework. Research process as it correlates with information literacy is covered in great detail.

Enforce the prerequisites:

VIRTUAL TECHNOLOGY AND DESIGN

1. Add the following courses [**Effective:** Fall 2003]

- **VTD 355 Virtual Design Studio I** (4 cr) Introduction to virtual design & relationship to human needs; focus on design process & expansion of vocabulary associated with virtual environments; experimentation & creativity encouraged. Three 3-hr Studios a wk and assigned work. Prereq: perm. (Fall only).
Enforce the prerequisites: No
- **VTD 366 Animation** (3 cr) Introduction to computer-generated animation from concept to postproduction; focus includes 3D methods, time/motion scripting, scene development and rendering processes; examines methods for wide range of applications. Prereq: VTD 244 or Arch 284. (Fall only).
Enforce the prerequisites: Yes
- **VTD 371 Interactive Technologies** (3 cr) Exploration of technologies to create and deliver interactive and immersive applications. Focus on navigation, way-finding and behavior issues associated with virtual environments. Prereq: VTD 244 or Arch 284. (Fall only).
Enforce the prerequisites: Yes

2. Add the following courses [**Effective:** Spring 2004]

- **VTD 244 Introduction to 3D Modeling** (3 cr) Introduction to the application of current 3D digital modeling techniques in virtual design; two 1-1/2hr lecture/lab a wk and associated work. (Spring only).
Enforce the prerequisites: No
- **VTD 345 Advanced Modeling** (3 cr) Exploration of methods for creating virtual environments including visualization techniques and efficient geometry, lighting and material development. Prereq: VTD 244 or Arch 284. (Spring only).
Enforce the prerequisites: Yes
- **VTD 356 Virtual Design Studio II** (4 cr) Design development of conceptual & technical aspects of virtual environments; exploration of design issues from conception to delivery; three 3-hr studios a wk and assigned work. Prereq: VTD 355 or perm. (Spring only)
Enforce the prerequisites: Yes
- **VTD 457-458 Capstone Design Studio I-II** (9 cr) Sequential contract courses built around the collective content of five interdisciplinary clusters; research, design & implementation of comprehensive virtual design project; three 4-hr studios a wk and associated work. Prereq for VTD 457: VTD 356. Prereq for VTD 458: VTD 457.
Enforce the prerequisites: Yes

FOR THE FACULTY'S INFORMATION

Correction to General Curriculum Report 224:

Changes to Cooperative Courses Approved Since Last General Curriculum Report:

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