

**FALL 1999 FINAL REPORT
OF THE UNIVERSITY OF OREGON COMMITTEE ON COURSES
TO THE UNIVERSITY SENATE**

DECEMBER 22, 1999

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PROJECTED DATES

(Course report deadlines are in bold; *UO Catalog* deadlines are italicized and indented.)

December 1, 1999: University Senate considered fall 1999 preliminary report of the University Committee on Courses.

December 15, 1999: Deadline for written corrections in the fall 1999 preliminary report to reach Paul Engelking (engelki@oregon), Department of Chemistry.

December 22, 1999: Fall 1999 final report issued (effective fall 2000 unless stated otherwise). This report contains all changes approved by the University Senate in the preliminary reports for winter 1999, spring 1999, and fall 1999.

December 1, 1999: Call for 2000–2001 catalog copy distributed to departments.

February 1, 2000: 2000–2001 catalog copy due at Office of University Publications.

March 8, 2000: University Senate considers winter 1999 preliminary report of the University Committee on Courses (effective fall 2000 unless stated otherwise).

May 1, 2000: Final deadline for changes to text in 2000–2001 catalog.

May 10, 2000: University Senate considers spring 2000 preliminary report of the University Committee on Courses (effective fall 2000 unless stated otherwise).

OVERVIEW

The body of this report consists of two major sections: **Proposed Course Changes for Fall 2000** (unless stated otherwise) and **Other Curricular Matters**. It is a compilation of the preliminary reports approved by the University Senate winter, spring, and fall 1999.

An **Appendix** of proposals that the committee received fall term 1999 or earlier—but did not approve—is provided as a courtesy. It is not part of the motion submitted to the University Senate.

Grading, repeatability, sequence. Unless indicated otherwise, courses may be taken either pass/no pass or for letter grades. “**P/N only**” or “**Graded only**” indicates that all students must take the course as specified in the bold print. Separate grading options for majors are bracketed in this report and appear in UO class-schedule notes; they are not printed in UO catalogs. “**R**” after course credits means that the course number may be repeated for credit. “**Sequence**” after the description means the courses must be taken in numerical order. Changes in course descriptions, instruction type, pre- and corequisites are not necessarily included here.

Group requirements. The committee recommended additions, changes, and deletions of courses approved for Group I (arts and letters), Group II (social science), or Group III (science) according to the criteria approved by the University Senate in May 1998. Changes affecting specific courses are listed in the main body of this report. Group requirements, group-requirement policies, and a summary of group-satisfying course changes appear under Other Curricular Matters.

Multicultural requirement. The committee followed the guidelines in the definitions of the three requirements. Changes affecting specific courses are listed in the main body of this report. The multicultural requirement, definitions of the three multicultural categories, and a summary of multicultural-course changes appear under Other Curricular Matters.

Courses not offered the past three years. As recommended by the curriculum committee in 1994–95, and subsequently endorsed by the Undergraduate Education and Policy Coordinating Council (now the Undergraduate Council), the Office of the Registrar sent each department, in April 1999, a report listing courses that have not been offered during the past three years. Departments were to respond with corrections, explanations for keeping courses, or plans to drop untaught courses in 2000–01.

At its May 1998 meeting, the University Senate agreed that the University Committee on Courses should include in its preliminary reports courses that should be dropped because (1) they have not been taught for three years and (2) the department has provided no reasonable explanation of why they have not been taught or whether they will be in the future.

*Courses marked with an asterisk in this report were dropped by direct request from the department to the Office of the Registrar. During winter term 2000, members of the University Committee on Courses will continue to pursue discussions with departments about courses not offered. If no reasonable explanation for

keeping such courses is offered, the committee will recommend that they be dropped in its winter 2000 report. Departments are reminded that courses may be reinstated within three years of their drop dates.

Guidelines for Preparing Proposals for New Academic Programs. On recommendation of this committee, the memorandum dated November 17, 1999, from Provost John Moseley to Deans and Department Heads, is appended to this report under **Other Curricular Matters**.

MOTION

The University Committee on Courses moves that Proposed Course Changes for Fall 2000 and Other Curricular Matters be approved. If approved, they take effect fall 2000 unless stated otherwise.

UNIVERSITY COMMITTEE ON COURSES

Voting: Paul Engelking, chair
C. Melvin Aikens (winter, spring 1999)
Harold Owen
Robert Ribe
Ron Sherriffs (winter, spring 1999)
Larry Sindell
Christopher Wilson

Ex officio: Herb Chereck
Nan Coppock-Bland
Toby Deemer
Marliss Strange

Staff support: Kathy Campbell
Gayle Freeman

**PROPOSED COURSE CHANGES FOR FALL 2000
(unless stated otherwise)**

COLLEGE OF ARTS AND SCIENCES

ANTHROPOLOGY

OLD COURSES DROPPED

- ***ANTH 220 Introduction to Japanese Society and Culture (4)**
[Remove from Group II (social science) and multicultural Category C (international cultures).]
- ***ANTH 322 Euro-American Images of Native North America (4)**
[Remove from multicultural Category B (identity, pluralism, and tolerance).]
- ***ANTH 415/515 Cultural Dynamics (4)**
- ***ANTH 416/516 History of Anthropology (4)**
- ***ANTH 431/531 Peoples of East Asia (4)**
[Remove ANTH 431 from multicultural Category C (international cultures).]
- ***ANTH 438/538 Minority Cultures of Southeast Asia (4)**
[Remove ANTH 438 from multicultural Category C (international cultures).]
- ***ANTH 468/568 Race, Culture, and Sociobiology (4)**
[Remove ANTH 468 from multicultural Category B (identity, pluralism, and tolerance).]
- ***ANTH 487/587 Technology and Culture (4)**
- ***ANTH 517 Field Methods in Cultural Anthropology (4)**
[Keeping ANTH 417 by same title.]
- ***ANTH 686 Sociocultural Theory (5)**

NEW COURSE

(Previously taught as ANTH 410/510 Experimental Course: Women and Men in Prehistory.)
ANTH 448/548 Gender and Prehistory (4) Discussion of gender as an emerging focus of archaeological theory, method, and interpretation. Examination of case studies from around the world during prehistory. Prereq: ANTH 150. Moss. Offered alternate years.
[Approved spring 1999 for multicultural Category B (identity, pluralism, and tolerance).]

BIOLOGY

EXISTING-COURSE CHANGES

- BI 122 Human Genetics
(Change title.)
- BI 122 Introduction to Human Genetics (4)**
[Approved spring 1999; still in Group III (science).]
- BI 311. See ANAT 311 under EXERCISE AND MOVEMENT SCIENCE.

BI 312. See ANAT 312 under EXERCISE AND MOVEMENT SCIENCE.

BI 313. See HPHY 313 under EXERCISE AND MOVEMENT SCIENCE.

BI 314. See HPHY 314 under EXERCISE AND MOVEMENT SCIENCE.

NEW COURSE

BI 465/565 Evolution of Nervous Systems (4) Laboratory-oriented comparative analysis of neuronal arrangements, synaptic organization, and development in selected animals. Focuses on how diverse systems of neurons have evolved. Prereq: BI 360. Kimmel. Offered alternate years.
[Approved spring 1999.]

COMPUTER AND INFORMATION SCIENCE (Computer and Information Science, Computer Information Technology, Oregon Master of Software Engineering)

OLD COURSE DROPPED

***CIS 674 Visual Information Processing (4)**

EXISTING-COURSE CHANGE

CIS 123

(Add group-satisfying status.)

CIS 123 Multimedia on the Web (4)

[Approved spring 1999 for Group III (science).]

CIS 323, either graded or pass/no pass

(Change grading option.)

CIS 323 Data Structures Laboratory (2) P/N only

[Approved winter 1999, effective fall 1999.]

CIT 281 Advanced Business Systems (4) Introduction to information systems technology and the role of business-information processing in organizations. Laboratories include advanced application of current business software tools. Prereq: MATH 111, either CIS 120 or 121. Hennessey, Miller, Ritter. Offered every year.
[Approved spring 1999.]

CIT 381 Database Systems (4) Introduction to database systems with emphasis on database design and access. Database concepts, data modeling, normalization, data warehousing, query languages, and formulation of complex queries. Prereq: CIT 281, two from CIS 120, 121, 122, 123. Clements, Wilson. Offered every year.
[Approved spring 1999.]

CIT 382 Information Architectures and Intranets (4) Organization of information on the web and applications of Internet technology. Emphasis on planning, implementation, and issues that apply to building and maintaining business Intranets. Prereq: CIT 381. Fickas, Miller. Offered every year.
[Approved spring 1999.]

CIT 383 Enterprise Networks (4) Planning and development of an enterprise network. Network components, connecting to the Internet, network management, security. Laboratories design a network for a virtual enterprise. Prereq: CIT 382. Zappala.
[Approved spring 1999.]

NEW COURSES

OMSE 500 Principles of Software Engineering (3) Graded only. Introduction to engineering of software processes in industry. Emphasizes process modeling and improvement and current best practice in core software engineering activities.

[Approved winter 1999, effective fall 1999.]

OMSE 511 Managing Software Development (3) Graded only. Introduction to software engineering. Emphasizes the nature of software engineering, the software process, and the problems and solutions in real development and modification projects. Prereq: OMSE 500.

[Approved winter 1999, effective fall 1999.]

OMSE 512 Understanding the Software Business (3) Graded only. Introduces the business and economic aspects of software development. Topics include the basics of product marketing, pricing, finance, strategic planning, and business law. Prereq: OMSE 500.

[Approved winter 1999, effective fall 1999.]

OMSE 513 Professional Communication Skills for Software Engineers (3) Graded only. Covers communication and other leadership skills. Includes technical writing, effective presentations, effective meetings, team and decision-making skills, and professional ethics. Prereq: OMSE 500.

[Approved winter 1999, effective fall 1999.]

OMSE 521 Quantitative Decision-Making (3) Graded only. Provides knowledge and skills in applying quantitative metric-based tools to decision-making under uncertainty. Topics include measurement and statistical concepts, decision-making, and models and metric development. Prereq: OMSE 500.

[Approved winter 1999, effective fall 1999.]

OMSE 522 Modeling and Analysis of Software Systems (3) Graded only. Provides the fundamental mathematical concepts needed to understand abstract models, which are used to formalize specifications of software systems, and to reason about them. Prereq: OMSE 500.

[Approved winter 1999, effective fall 1999.]

OMSE 525 Software Quality Analysis (3) Graded only. Processes, methods, and techniques for producing and assessing high-quality software. Inspections, static analysis and dynamic, and integrating high quality into software development processes. Prereq: OMSE 500.

[Approved winter 1999, effective fall 1999.]

OMSE 531 Software Requirements Engineering (3) Graded only. Principles, tools, techniques for required elicitation, specification analysis. Requirements development role, requirements goal, requirement difficulty for real systems. Techniques for formally modeling, specifying software requirements. Prereq: OMSE 522, 525.

[Approved winter 1999, effective fall 1999.]

OMSE 532 Software Architecture and Domain Analysis (3) Graded only. Methods and principles of the architectural design of complex, large-scale software systems to accommodate change and evolution through many product releases or versions. Prereq: OMSE 522.

[Approved winter 1999, effective fall 1999.]

OMSE 533 Software Design Techniques (3) Graded only. Covers the principles of software design and a survey of design methods, techniques, and tools. Includes in-depth and hands-on study of at least one method. Prereq: OMSE 522.

[Approved winter 1999, effective fall 1999.]

OMSE 535 Software Implementation and Testing (3) Graded only. Principles and practice of implementing, verifying, delivering, and maintaining high-quality computer software. Emphasizes the theory and practice of software testing and its role in development. Prereq: OMSE 522, 525.

[Approved winter 1999, effective fall 1999.]

OMSE 551 Strategic Software Engineering (3) Graded only. Principles, methods, and tools for strategic software development. Includes process modeling and improvement, developing software families, and approaches to the generation and reuse of artifacts. Prereq: OMSE 511, 512, 513, 521, 531, 532, 533, 535.
[Approved winter 1999, effective fall 1999.]

OMSE 555, 556 Software Development Practicum I,II (3,3) Graded only. Problem analysis, planning, requirements definition, and implementation. Applying advanced software engineering techniques to a disciplined development of a realistic product and evaluating the results. Prereq: OMSE 511, 512, 513, 521, 531, 532, 533, 535. Sequence.
[Approved winter 1999, effective fall 1999.]

OMSE 607 Seminar: [Topic] (3R) Graded only. Topics vary according to the interests and needs of students and the availability of faculty members.
[Approved winter 1999, effective fall 1999.]

OMSE 610 Experimental Course: [Topic] (3R) Graded only. New courses are offered under this number for a year or two before final definition and approval by the University Senate and the State Board of Higher Education.
[Approved winter 1999, effective fall 1999.]

EAST ASIAN LANGUAGES AND LITERATURES (Chinese)

OLD COURSE DROPPED

*CHN 441/541 Structure of the Chinese Language (4)

ENGLISH (English, Expository Writing)

EXISTING-COURSE CHANGE

ENG 340 Jewish Writers (4)
[Approved for Group I (arts and letters), effective spring 2000.]

NEW COURSES

(Subject previously taught in ENG 399 Special Studies.)

ENG 352 Shakespeare on Page and Stage (4) [Graded only for majors] Intermediate-level study of Shakespeare's plays and poems. Supplements traditional lectures and texts with acting workshops, film, live theater viewings, and student performances. Prereq: sophomore standing. Frankel.
[Effective spring 2000.]

ENG 404 Internship: [Topic] (1-6R) On- or off-campus internship in a variety of writing or literacy-related settings. Prereq: instructor's consent.
[Effective spring 2000.]

(Subject previously taught in ENG 489/589 Native American Literature and in ENG 498/598 Studies in Women and Literature.)

ENG 463/563 Native American Women Writers (4) [Graded only for majors.] Examines issues of traditional patriarchy and its relationship to the emergence of feminism in writings of Native American women. Prereq: junior standing or above. Offered alternate years.

[ENG 463 approved winter 1999 for multicultural Category A (American cultures), effective fall 1999.]

(Subject previously taught in ENG 410/510 Experimental Course.)

ENG 464/564 Native Americans in Literature and Law (4) [Graded only for majors.] Explores the relationship between truth and fiction in legal writings and literature as they depict Native American experience. Prereq: junior standing or above. Offered alternate years.

[ENG 464 approved winter 1999 for multicultural Category A (American cultures), effective fall 1999.]

(Subject previously taught in ENG 488/588 Race and Representation in Film.)

ENG 480/580 Native American Representation in Film (4) [Graded only for majors.] Examines the representation of Native Americans in films from 1910 to the present, focusing on issues of identity, colonialism, and liberation movements. Prereq: junior standing or above.

[ENG 480 approved winter 1999 for multicultural Category A (American cultures), effective fall 1999.]

ENG 604 Internship: [Topic] (1-6R) On- or off-campus internship in a variety of writing or literacy-related settings. Prereq: instructor's consent.

[Effective spring 2000.]

(Subject previously taught in WR 399 Special Studies.)

WR 312 Principles of Tutoring Writing (4) Graded only. The practice and ethics of tutoring writing in the context of writing in various academic disciplines. Theories of teaching, tutoring techniques, and assessment of writing. Prereq: instructor's consent. Laskaya.

[Effective spring 2000.]

EXERCISE AND MOVEMENT SCIENCE (Anatomy, Exercise and Movement Science, Human Physiology)

EXISTING-COURSE CHANGES

BI 311

(Change subject code.)

ANAT 311 Human Anatomy I: Bones, Muscles, Nerves (4)

[Approved winter 1999, effective fall 1999.]

BI 312

(Change subject code and prerequisite.)

ANAT 312 Human Anatomy II: Systems of the Body (4) Prereq: ANAT 311.

[Approved winter 1999, effective fall 1999.]

EMS 331

(Change course number.)

EMS 335 Motor Development (4)

[Approved winter 1999, effective fall 1999.]

EMS 332

(Change course number; add prerequisite.)

EMS 333 Motor Control (4) Prereq: EMS 335.

[Approved winter 1999, effective fall 1999.]

BI 313

(Change subject code.)

HPHY 313 Human Physiology I: Nerve, Muscle, Senses (4)

[Approved winter 1999, effective fall 1999.]

BI 314

(Change subject code and prerequisite.)

HPHY 314 Human Physiology II: Homeostatic Mechanisms (4) Prereq: HPHY 313.

[Approved winter 1999, effective fall 1999.]

NEW COURSES

ANAT 401 Research: [Topic] (1–6R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 405 Reading and Conference: [Topic] (1–6R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 406 Special Problems: [Topic] (1–6R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 407/507 Seminar: [Topic] (1–5R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 408/508 Workshop: [Topic] (1–6R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 409 Practicum: [Topic] (1–6R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 410/510 Experimental Course: [Topic] (1–5R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 601 Research: [Topic] (1–16R) P/N only. R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 605 Reading and Conference: [Topic] (1–6R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 606 Special Problems: [Topic] (1–16R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 607 Seminar: [Topic] (1–5R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 608 Workshop: [Topic] (1–6R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 609 Practicum: [Topic] (1–6R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

ANAT 610 Experimental Course: [Topic] (1–5R) R when topic changes.

[Approved winter 1999, effective fall 1999.]

HPHY 401 Research: [Topic] (1-6R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 405 Reading and Conference: [Topic] (1-6R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 406 Special Problems: [Topic] (1-6R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 407/507 Seminar: [Topic] (1-5R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 408/508 Workshop: [Topic] (1-6R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 409 Practicum: [Topic] (1-6R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 410/510 Experimental Course: [Topic] (1-5R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 601 Research: [Topic] (1-16R) P/N only. R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 605 Reading and Conference: [Topic] (1-6R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 606 Special Problems: [Topic] (1-16R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 607 Seminar: [Topic] (1-5R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 608 Workshop: [Topic] (1-6R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 609 Practicum: [Topic] (1-6R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

HPHY 610 Experimental Course: [Topic] (1-5R) R when topic changes.
[Approved winter 1999, effective fall 1999.]

GEOLOGICAL SCIENCES

OLD COURSES DROPPED

GEOL 312 Mineralogy II: Systematic Mineralogy (5)

GEOL 313 General Petrology (5)

GEOL 455/555 Fluid Mechanics Laboratory (4)

GEOL 463/563 Introduction to Geophysics (4)

GEOL 469/569 Geological Fluid Dynamics (4)

GEOL 637 Advanced Paleontology II: Topics in Paleoecology (3)

[Approved winter 1999, effective fall 1999.]

GEOL 638 Advanced Paleontology III: Micropaleontology (3)

[Approved winter 1999, effective fall 1999.]

EXISTING-COURSE CHANGES

GEOL 101 Introduction to Geology: The Dynamic Interior

(Change title and description.)

GEOL 101 Earth's Dynamic Interior (4) Plate tectonics, mantle flow, and magmatism. Volcanoes, earthquakes, mountain building, generation of Earth's crust; rocks and minerals; Earth's internal structure. Comparison with other planets.

[Still in Group III (science); approved winter 1999, effective fall 1999.]

GEOL 102 Introduction to Geology: The Face of the Earth

(Change title and description.)

GEOL 102 Environmental Geology and Landform Development (4) Landforms, surface processes, and interactions between humans and the environment. Weathering, erosion, sedimentation, groundwater, streams, glaciers, deserts, oceans, and coastlines; geologic hazards.

[Still in Group III (science); approved winter 1999, effective fall 1999.]

GEOL 103 Introduction to Geology: The Evolving Earth

(Change title and description.)

GEOL 103 The Evolving Earth (4) History of the Earth. Geologic time, sedimentary environments; oceans, mountains, and climate through time; stratigraphic history of North America; evolution of plants and animals.

[Still in Group III (science); approved winter 1999, effective fall 1999.]

GEOL 201 General Geology: Earth's Interior Heat and Dynamics

(Change title and description.)

GEOL 201 Earth's Interior Heat and Dynamics (4) Processes that cause earthquakes, volcanism, mountain building, and plate tectonics. Includes Earth's origin and internal structure, rocks and minerals, gravity and magnetism. Weekly lectures, two-hour laboratory. For students with majors or backgrounds in science, or honors college students.

[Still in Group III (science); approved winter 1999, effective fall 1999.]

GEOL 202 General Geology: Earth's Surface Processes and Morphology

(Change title and description.)

GEOL 202 Earth Surface and Environmental Geology (4) Earth materials, the rock record, human interactions with surface environment. Sedimentary rocks and environments, chemical and physical weathering, mineral and energy resources, hydrogeology, groundwater contamination, surface processes, human impacts. Weekly lectures, two-hour laboratory. For students with majors or backgrounds in science, or honors college students.

[Still in Group III (science); approved winter 1999, effective fall 1999.]

GEOL 203 General Geology: Evolution of the Earth

(Change title and description.)

GEOL 203 Evolution of the Earth (4) Origin, history, and physical evolution of the Earth; geologic time scales, development of the global stratigraphic section. Weekly lectures, two-hour laboratory. For students with majors or backgrounds in science, or honors college students. [Still in Group III (science); approved winter 1999, effective fall 1999.]

GEOL 303

(Change number.)

GEOL 213 Geology of the National Parks (4)

[Still in Group III (science); approved winter 1999, effective fall 1999.]

GEOL 311 Mineralogy I: Physics and Chemistry of Minerals

(Change title and description.)

GEOL 311 Earth Materials (5) Chemical and mineralogical composition of rocks, sediment, and soil. Properties of common minerals; origin of rocks; microscopic study of rock textures; environmental issues. Prereq: GEOL 201, 202 or GEOL 101, 102, 104, 105; coreq: CH 211 or 221 or 224.

GEOL 414/514 Igneous Petrology

(Change title and description.)

GEOL 414/514 Igneous and Metamorphic Petrology (5) Advanced principles of igneous and metamorphic petrogenesis. Gibbs phase rule, phase diagrams, mineral thermodynamics; magma geochemistry and rheology; metamorphic facies, geothermometry and geobarometry. Prereq: CH 213 or 223 or 226, GEOL 323.

GEOL 451/551 Groundwater Hydrology

(Change title and prerequisites.)

GEOL 451/551 Hydrogeology (4) Prereq: GEOL 101, 102, 103 or instructor's consent; MATH 256; one year each of calculus, chemistry, and physics.

[Approved winter 1999, effective fall 1999.]

GEOL 464/564 Exploration Geophysics

(Change title and description.)

GEOL 464/564 Environmental Field Geophysics (4) Application of reflection and refraction seismology, electrical conductivity, and magnetic methods to problems in subsurface environmental contamination, contaminant migration, groundwater characterization, and geological structure determination. Prereq: PHYS 201, 202 or PHYS 211, 212 or equivalents.

NEW COURSES

GEOL 315 Earth Physics (2) Physics of basic Earth processes. Application of physics to analysis of convection in Earth, plate tectonics and lithospheric deformation, movement of magma or water through Earth. Prereq: MATH 112, PHYS 201 or 211. Humphreys, Toomey, Waff.

GEOL 316 Introduction to Hydrogeology (2) Focuses on the interrelationships of geologic materials and processes with water. Topics include groundwater, soil water, the water cycles, and water quality. Prereq: MATH 112, PHYS 201 or 211. Manga, Waff.

GEOL 318 Introduction to Field Methods (2) Introduction to geologic mapping and related field skills, rock descriptions, cross sections, and structures. Lectures, laboratories, mandatory field trips. Prereq: GEOL 201, 202 or GEOL 101, 102. Dorsey, Miller, Reed.

GEOL 321 Essentials of Mineralogy (2) [Graded only for majors] Crystal chemistry, mineral structures, relationship between structure and physical properties, systematics of important rock-forming, ore, and alteration minerals. Prereq: GEOL 311; coreq: CH 212 or 222 or 225. Cashman, Johnston, Rice.

GEOL 322 Determinative Methods in Mineralogy (3) [Graded only for majors] Principles of optical mineralogy, use of the petrographic microscope to identify minerals; introduction to x-ray diffraction; use of powder diffractometry in mineral identification. Prereq: GEOL 321; coreq: CH 212 or 222 or 225. Cashman, Johnston, Rice.

GEOL 323 Introduction to Petrology (3) [Graded only for majors] Origin and classification of igneous and metamorphic rocks. Partial melting, fractional crystallization, progressive metamorphism, relationship between metamorphic facies and tectonics. Microscopic study of rocks in thin section. Prereq: GEOL 322. Cashman, Johnston, Kays, Rice.

GEOL 325 Geophysics (4) Origin and composition of the Earth, gravity and isostasy, heat flow, tectonic processes, seismic wave propagation and its application to the study of the Earth. Coreq: MATH 252, PHYS 202 or 212. Humphreys, Toomey, Waff.

(Subject previously taught in GEOL 410/510 Experimental Course.)

GEOL 440/540 Sedimentary Basis Analysis (4) Evolution of sedimentary basins, emphasizing tectonic controls on basin formation and filling. Interpretation of subsidence mechanisms and sedimentary processes through analysis of the stratigraphic record. Pre- or coreq: GEOL 334, 350. [Approved winter 1999, effective fall 1999.]

(Subject previously taught in GEOL 610 Experimental Course.)

GEOL 651 Groundwater in Geologic Processes: [Topic] (3R) Basics of groundwater flow, solute transport and heat transport. Topics include regional-scale transport, formation of ore deposits and hydrocarbons, geothermal processes, groundwater and tectonics, diagenesis and metamorphism. Prereq: GEOL 451/551. R thrice when topic changes for maximum of 12 credits. [Approved winter 1999, effective fall 1999.]

GERMANIC LANGUAGES AND LITERATURES

EXISTING-COURSE CHANGES

GER 104, 105; 6 credits each

(Increase credits.)

GER 104, 105 Intensive First-Year German (7,8)

[Approved winter 1999, effective summer 1999.]

HISTORY

OLD COURSE DROPPED

HIST 122 World History since 1700 (4)

[Remove from Group II (social science) and multicultural Category C (international cultures); approved winter 1999, effective fall 1999.]

EXISTING-COURSE CHANGES

HIST 120, 121 World History to 1700

(Reinstate numbers and titles.)

HIST 104, 105 World History (4,4) Survey of world cultures and civilizations and their actions. Includes study of missionary religions, imperialism, economic and social relations. **104:** ancient societies. **105:** early modern. Sequence.

[Still satisfies Group II (social science) and multicultural Category C (international cultures); approved winter 1999, effective fall 1999.]

HIST 123 World History since 1700
(Reinstate number and title.)

HIST 106 World History (4) Survey of world cultures and civilizations and their actions. Includes study of missionary religions, imperialism, economic and social relations. 106: modern. Sequence. *[Still satisfies Group II (social science) and multicultural Category C (international cultures); approved winter 1999, effective fall 1999.]*

HIST 440/540 The Book in History (4)

(Change title, majors grading option, and description; add repeatability.)

HIST 440/540 The Book in History: [Topic] (4R) [Graded only for majors.] The book as cultural artifact, commercial commodity, and primary vehicle for the spread of ideas. **I:** Authorship and Publishing History. **II:** Reading and Censorship. **R** twice when topic changes for maximum of 12 credits

[Approved winter 1999, effective fall 1999.]

NEW COURSE

HIST 273 Introduction to American Environmental History (4) [Graded only for majors.] Introduction to concepts, concerns, and methods of environmental history, especially in the context of American history to the present.

[Satisfies Group II (social science) and multicultural Category A (American cultures); approved winter 1999, effective fall 1999.]

HONORS COLLEGE

OLD COURSES DROPPED

***HC 307 (H) Historical-Comparative Inequality in the United States: [Topic] (4R)**
[Remove from multicultural Category A.]

***HC 308 (H) Unequal Relations in the United States: [Topic] (4R)**
[Remove from multicultural Category B.]

HC 402 Independent Study: [Topic] (1–17R)

HUMANITIES

NEW COURSES

HUM 251 The Ancient City (4) Examines urban cultures of the ancient world, particularly the relationships between law, culture, and systems of belief. Hurwit, Jaeger, Nicols.
[Approved for Group I (arts and letters).]

HUM 253 The Modern City (4) Examines urban cultures of the modern world, particularly the relationships between law, culture, and systems of belief. McCole.
[Approved for Group I (arts and letters).]

LINGUISTICS

OLD COURSE DROPPED

LING 421/521 Language, Mind, and Culture (4)
[Approved spring 1999.]

EXISTING-COURSE CHANGES

LING 311

(Change course number.)

LING 211 Languages of the World (4)

[Still satisfies Group II (social science) and multicultural Category C (international cultures); approved winter 1999, effective fall 1999.]

LING 290 Introduction to Linguistics

(Change title.)

LING 290 Introduction to Linguistic Analysis (4)

[Approved spring 1999; still approved for Group II (social science).]

LING 490/590 (3)

(Increase credits.)

LING 490/590 Sociolinguistics (4)

[Approved spring 1999.]

MATHEMATICS

OLD COURSES DROPPED

***MATH 440/540 Matrix Algebra (3)**

***MATH 656, 657, 658 Numerical Analysis (4-5,4-5,4-5)**

***MATH 659 Approximation Theory (4-5)**

***MATH 667, 668, 669 Theory of Estimation and Testing Hypotheses (4-5,4-5,4-5)**

***MATH 693, 694, 695 Advanced Topics in Probability and Statistics: [Topic] (4-5,4-5,4-5R)**

PHYSICS

OLD COURSE DROPPED

PHYS 303 Physicists' View of Nature (3)

[Approved spring 1999; remove from Group III (science).]

EXISTING-COURSE CHANGES

PHYS 301, 302 (3,3)

(Increase credits, change descriptions.)

PHYS 301, 302 Physicists' View of Nature (4,4)

Illustrates physics concepts through the work of prominent physicists. **301:** the classical view—mechanics, electrical science, thermal physics. **302:** the 20th-century view—relativity, cosmology, and quantum physics. Pre- or coreq: junior or senior standing. Offered every year. *[Approved spring 1999; still Group III (science) courses.]*

NEW COURSES

PHYS 311 Physics of the Atmosphere (4) Introductory treatment of physical processes governing the structure and circulation of our atmosphere. Topics include thermodynamics, general circulation, clouds, winds, and observational tools. Prereq: PHYS 201, 202; MATH 251, 252. Bothun, Kevan, Park. Offered every year. *[Approved spring 1999.]*

PHYS 481/581 Design of Experiments (4) Applies statistics to practical data analysis, data-based decision making, model building, and the design of experiments. Emphasizes factorial designs. Bothun, Sercel. Offered every year. *[Approved spring 1999.]*

PHYS 482/582 Techniques in Computational Physics (4) Numerical methods for analysis and computation in physics. Interpolation, approximation, integration, differential and difference equations, transcendental equations, optimization. Emphasizes physical applications. Bothun, Haydock, Imamura. Offered every year. *[Approved spring 1999.]*

PHYS 604 Internship: [Topic] (1–16R) P/N only. Coreq: good standing in applied physics master's degree program. Offered every term. *[Approved spring 1999.]*

PHYS 677 Semiconductor Device Physics (4) Theory of inorganic solids, particularly semiconductors; carrier transport phenomena and electrical characteristics of positive-negative junctions, unipolar devices, photonic devices, and integrated circuits. PHYS 671 recommended. Cohen, Gregory, Kevan, Sercel. Offered summer session only. *[Approved spring 1999.]*

PHYS 678 Semiconductor Processing and Characterization Techniques (4) Structure, crystal growth, and epitaxy of solid-state materials; reactivity of inorganic surfaces; doping and solid-state diffusion; photoresists and etchants; surface analysis. Prereq: PHYS 677. Cohen, Gregory, Kevan, Sercel. Offered summer session only.

POLITICAL SCIENCE

EXISTING-COURSE CHANGES

PS 433/533 Marxist Political Theories
(Change title and description.)

PS 433/533 Marxism and Radical Thought (4) Surveys utopian socialist thought, anarchism, Marxism, and Leninism. Central themes include the nature of radical theory, the role of the state, human nature and the new society. Offered every year. *[Approved spring 1999.]*

NEW COURSE

(Subject previously taught in PS 410/510 Experimental Course.)

PS 491/591 Politics of Everyday Life (4) [Graded only for majors.] Examines how we try to influence each other's behaviors in the course of everyday life. Readings from several disciplines. Myagkov, Orbell. Offered every year.

[Approved spring 1999.]

ROMANCE LANGUAGES (French, Italian, Romance Languages)

OLD COURSES DROPPED

ITAL 342 Italian Literature in Translation (4)

[Approved spring 1999; remove from Group I (arts and letters).]

ITAL 445/545 Dante and His Influence (4)

[Approved spring 1999.]

ITAL 447/547 Petrarch and Petrarchism (4)

[Approved spring 1999.]

EXISTING-COURSE CHANGES

FR 301 Reading French

(Change title; add multicultural status.)

FR 301 *Culture et langage: la France contemporaine* (4) Albert-Galtier, Altmann, Gould, McPherson.
[Approved spring 1999. Still approved for Group I (arts and letters); approved for multicultural Category C (international cultures).]

FR 303 Writing French

(Change title; add multicultural status.)

FR 303 *Culture et langage: identités francophones* (4) Albert-Galtier, Altmann, Gould, McPherson.
[Approved spring 1999. Still approved for Group I (arts and letters); approved for multicultural Category C (international cultures).]

ITAL 301 Reading Italian

(Change title; add multicultural status.)

ITAL 301 *Cultura e lingua: l'Italia contemporanea* (4) Ceccacci, Lollini, Psaki.

[Approved spring 1999. Still approved for Group I (arts and letters); approved for multicultural Category C (international cultures).]

ITAL 303 Writing Italian

(Change title; add multicultural status.)

ITAL 303 *Cultura e lingua: società, economia, politica* (4) Ceccacci, Lollini, Psaki.

[Approved spring 1999. Still approved for Group I (arts and letters); approved for multicultural Category C (international cultures).]

ITAL 441/541 Boccaccio and His Influence (4)

(Change title and description; change from fixed credit to credit range; add repeatability.)

ITAL 441/541 Medieval Italian Culture: [Topic (4-6R)] Cultural productions of 13th- and 14th-century Italy (e.g., translating Dante, rewriting Boccaccio, chivalric romance) and the history of

their interpretation. **R** twice when topic changes for maximum of 12 credits. Conducted in Italian. Offered alternate years.
[Approved spring 1999.]

ITAL 444/544 Dante and His Influence (4)

(Change title and description; change from fixed credit to credit range; add repeatability.)

ITAL 444/544 Medieval and Renaissance Literature: [Topic] (4–6R) Focuses on a topic from 13th- to 16th-century Italy (e.g., medieval foundations of the Renaissance, Petrarch and Petrarchism, literary subjectivity, the body in literature. **R** twice when topic changes for maximum of 12 credits. Conducted in Italian. Offered alternate years.

[Approved spring 1999.]

NEW COURSES

FR 320 Intensive French Grammar Review (4) [Graded only for majors.] Promotes linguistic competency in French through intensive review and refinement of French grammar while introducing basic vocabulary and linguistic concepts. Prereq: FR 203 or equivalent. Altmann, Gould, Wiebe.
[Approved spring 1999 for Group I (arts and letters).]

FR 363 Le français du monde économique moderne (4) [Graded only for majors.] Promotes linguistic competency in current economic and business French while introducing the international economy of France and the European Union. Prereq: FR 203 or equivalent. Altmann, Gould, Wiebe.
[Approved spring 1999 for Group I (arts and letters).]

ITAL 305 Cultura e lingua: arte, musica, i mass media (4) [Graded only for majors.] Studies various artistic expressions through time and the influence of the mass media on the social structure and language. Prereq: ITAL 203, 303. Ceccacci, Lollini, Psaki.
[Approved spring 1999 for Group I (arts and letters) and multicultural Category C (international cultures).]

ITAL 320 Intensive Italian Grammar Review (4) [Graded only for majors.] Bridges second- and third-year culture and literature courses. Provides review, synthesis, consolidation, and elaboration of linguistic knowledge gained from lower-division courses. Ceccacci, Lollini, Psaki.
[Approved spring 1999 for Group I (arts and letters) and multicultural Category C (international cultures).]

NEW COURSE

RL 199 Special Studies: [Topic] (1–5R) **R** when topic changes.

RUSSIAN AND EAST EUROPEAN STUDIES (Russian, Russian and East European Studies)

EXISTING-COURSE CHANGES

RUSS 408/508 Workshop: [Topic]
(Change title.)

RUSS 408/508 Colloquium: [Topic] (2–4R)

REES 609 Terminal Project
(Change title.)

REES 609 Practicum: [Topic] (1–16R)

WOMEN'S STUDIES

NEW COURSE

(Subject previously taught in WST 407/507 Seminar.)

WST 413/513 Feminist Pedagogy (1) P/N only Surveys strategies for facilitating discussions in women's studies classes and the special problems of teaching about gender, race, and sexuality.

Prereq: WST 101 or equivalent.

[Approved winter 1999, effective fall 1999.]

PROFESSIONAL SCHOOLS AND COLLEGES

SCHOOL OF ARCHITECTURE AND ALLIED ARTS

ARCHITECTURE

OLD COURSES DROPPED

ARCH 399 Special Studies: [Topic] (1-6R)
[Approved winter 1999, effective fall 1999.]

ARCH 416/516 Project Management (3)
[Approved winter 1999, effective fall 1999.]

ARCH 425/525 Design Synthesis (3)
[Approved winter 1999, effective fall 1999.]

ARCH 438/538 Climate Analysis for Design (3)
[Approved winter 1999, effective fall 1999.]

ARCH 456/556 Spatial Composition and Dynamics (3)
[Approved winter 1999, effective fall 1999.]

ARCH 464/564 Advanced Reinforced Concrete Systems (4)
[Approved winter 1999, effective fall 1999.]

ARCH 465/565 Advanced Structures (4)
[Approved winter 1999, effective fall 1999.]

ARCH 467/567, 468/568 Structure Systems I,II (3,3)
[Approved winter 1999, effective fall 1999.]

ARCH 472/572 Materials and Processes of Construction (3)
[Approved winter 1999, effective fall 1999.]

NEW COURSE

ARCH 399 Special Studies: [Topic] (1-6R)
[Approved winter 1999, effective fall 1999.]

ART HISTORY

NEW COURSE

ARH 403 Thesis: [Topic] (1-6R) Prereq: ARH 401. Departmental honors majors only.
[Approved winter 1999, effective fall 1999.]

FINE AND APPLIED ARTS
(General Art, Photography)

EXISTING-COURSE CHANGES

ARTV 351 Creative Photography I (4R)
(Change subject code and title.)

ARTO 351 Creative Black-and-White Photography (4R) Prereq: instructor's consent. R once for maximum of 8 credits.

[Approved winter 1999, effective fall 1999.]

ARTV 452/552 Creative Photography II (3-4R)

(Change subject code, title, and prerequisite; change from credit range to fixed credit.)

ARTO 452/552 Creative Large-Format Photography (4R) Prereq: ARTO 351. R twice for maximum of 12 credits.

[Approved winter 1999, effective fall 1999.]

ARTV 453/553 Creative Photography III (4R)

(Change subject code, title, and prerequisite.)

ARTO 453/553 Constructed Image in Creative Photography (4R) Prereq: ARTO 351. R twice for maximum of 12 credits.

[Approved winter 1999, effective fall 1999.]

ARTV 454/554 (3-4R)

(Change subject code; change from credit range to fixed credit.)

ARTO 454/554 Color Photography (4R)

[Approved winter 1999, effective fall 1999.]

ARTV 476/576 (3-4R)

(Change subject code and prerequisites; change from credit range to fixed credit.)

ARTO 476/576 Alternative Photographic Processes (4R) Prereq: ARTO 351, 452/552 or instructor's consent. R twice for maximum of 12 credits.

[Approved winter 1999, effective fall 1999.]

ARTV 478/578 Contemporary Photography Issues (4R)

(Change subject code, title, description, and prerequisite.)

ARTO 478/578 Photography in Art and Culture (4R) Extensive information and discussion of historical directions in photography, concentrating on mid-20th-century American photography, artists, and issues from its invention through the 1980s. Prereq: ARTO 351. R once for maximum of 8 credits.

[Approved winter 1999, effective fall 1999.]

ARTV 484/584 (3-4R)

(Change subject code and prerequisite; change from credit range to fixed credit.)

ARTO 484/584 Advanced Photography (4R) Prereq: ARTO 351, 16 credits in photography, instructor's consent. R four times for maximum of 20 credits.

[Approved winter 1999, effective fall 1999.]

ARTV 694 Graduate Studies in Photography (3-5R)

(Change subject code.)

ARTO 694 Graduate Studies in Photography (3-5R) Prereq: portfolio, instructor's consent.

[Approved winter 1999, effective fall 1999.]

NEW COURSES

(Subject previously taught in ART 208 Foundation: [Topic].)

ART 101 Understanding Contemporary Media (4) Examines contemporary developments in specific media of visual art. Emphasizes process and practice in ceramics, fibers, metalsmithing, painting, photography, printmaking, sculpture, and visual design.

[Approved winter 1999 for arts and letters (Group I) status, effective fall 1999.]

ARTO 199 Special Studies: [Topic] (1-5R)

[Approved winter 1999, effective fall 1999.]

ARTO 401 Research: [Topic] (1-12R)

[Approved winter 1999, effective fall 1999.]

ARTO 404 Internship: [Topic] (1-12R)

[Approved winter 1999, effective fall 1999.]

ARTO 405 Reading and Conference: [Topic] (1-6R)

[Approved winter 1999, effective fall 1999.]

ARTO 406 Special Problems: [Topic] (1-8R)

[Approved winter 1999, effective fall 1999.]

ARTO 407/507 Seminar: [Topic] (1-4R)

[Approved winter 1999, effective fall 1999.]

ARTO 408/508 Workshop: [Topic] (1-6R)

[Approved winter 1999, effective fall 1999.]

ARTO 409 Terminal Creative Project B.F.A. (1-12R) Majors only.

[Approved winter 1999, effective fall 1999.]

ARTO 410/510 Experimental Course: [Topic] (1-6R)

[Approved winter 1999, effective fall 1999.]

(Subject previously taught in ARTV 478/578.)

ARTO 479/579 Contemporary Theory in Photography (4R) Contemporary language and cultural theory as it constitutes postmodern thought in photography and the arts. Prereq: ARTO 351. R once for maximum of 8 credits.

[Approved winter 1999, effective fall 1999.]

ARTO 601 Research: [Topic] (1-12R) P/N only

[Approved winter 1999, effective fall 1999.]

ARTO 604 Internship: [Topic] (1-12R) P/N only

[Approved winter 1999, effective fall 1999.]

ARTO 605 Reading and Conference: [Topic] (1-6R)

[Approved winter 1999, effective fall 1999.]

ARTO 606 Special Problems: [Topic] (1-12R)

[Approved winter 1999, effective fall 1999.]

ARTO 607 Seminar: [Topic] (1-4R)
[Approved winter 1999, effective fall 1999.]

ARTO 608 Colloquium: [Topic] (1-8R)
[Approved winter 1999, effective fall 1999.]

ARTO 609 Terminal Creative Project M.F.A. (1-12R) Majors only.
[Approved winter 1999, effective fall 1999.]

ARTO 610 Experimental Course: [Topic] (1-6R)
[Approved winter 1999, effective fall 1999.]

PLANNING, PUBLIC POLICY AND MANAGEMENT

EXISTING-COURSE CHANGE

PPPM 614 Alternative Dispute Resolution
(Change title.)

PPPM 614 Conflict Resolution (5)
[Approved winter 1999, effective fall 1999.]

NEW COURSE

(Subject previously taught in PPPM 610 Experimental Course: [Topic].)

PPPM 645 Leadership and Facilitation Methods (4) P/N only. Identifies and develops effective skills to enhance the leadership ability of all members of a group or organization. Facilitates collaborative group efforts.

[Approved winter 1999, effective fall 1999.]

LUNDQUIST COLLEGE OF BUSINESS

ACCOUNTING

OLD COURSES DROPPED

ACTG 314 Professions and Professionalism (2)
[Approved spring 1999.]

ACTG 460/560 Advanced Management Accounting (4)
[Approved spring 1999.]

ACTG 471/571 Advanced Federal Taxation (4)
[Approved spring 1999.]

ACTG 632 Financial Accounting III (3)
[Approved spring 1999.]

ACTG 655 Development of Accounting Thought (3)
[Approved spring 1999.]

EXISTING-COURSE CHANGES

ACTG 617 Taxation Concepts (3)

(Change title, increase credits, change description.)

ACTG 617 Taxation of Businesses (4) Taxation of business entities (C corporations, partnerships, S corporations, and limited liability companies) as they form, operate, and dissolve.

[Approved spring 1999.]

ACTG 623 Managerial and Financial Accounting Analysis (3)

(No change.)

[Approved for 4 credits spring 1999 and moved back to 3 credits fall 1999.]

ACTG 630 Financial Accounting I (3)

(Change title, increase credits, change description.)

ACTG 630 Accounting Measurement and Disclosure (4) Recent Financial Accounting Standings Board decisions; current measurement and disclosure conflicts facing the accounting profession. Includes exposure to governmental and not-for-profit accounting issues.

[Approved spring 1999.]

ACTG 631 Financial Accounting II (3)

(Change title, increase credits, change description.)

ACTG 631 Financial Statement Analysis and Valuation (4) Examines the role of accounting information in financial decisions. Highlights valuation's relationship to accounting earnings and book value.

[Approved spring 1999.]

ACTG 635 (3)

(Increase credits.)

ACTG 635 Accounting for Multinational Corporations (4)

[Approved spring 1999.]

ACTG 642 Auditing Concepts (3)

(Change title, credits, and description.)

ACTG 642 Advanced Assurance Services (4) Knowledge and application of generally accepted accounting principles (GAAP) and generally accepted auditing standards (GAAS) systems design and flow charting, work paper preparation and review, oral and written presentation, and application of judgment.

[Approved spring 1999.]

ACTG 652 (3)

(Increase credits.)

ACTG 652 Accounting Theory (4)

[Approved spring 1999.]

ACTG 662 Management Accounting Theory (3)

(Change title, increase credits, change description.)

ACTG 662 Strategic Cost Management (4) Theory and application of management accounting techniques to decisions made under uncertainty in complex business environments.

[Approved spring 1999.]

ACTG 665 Management Control Systems (3)

(Change title, increase credits, change description.)

ACTG 665 Decision Support Systems (4) Use of technology to create effective decision support systems. Understanding how systems can be created to supply information to managers.
[Approved spring 1999.]

NEW COURSE

ACTG 618 Taxes and Business Strategy (4) How to use economic analysis as a tax planning tool, thereby incorporating tax factors in economic decisions. Prereq: ACTG 617. Gernon, Matsunaga. Offered every year.
[Approved spring 1999.]

BUSINESS ADMINISTRATION

EXISTING-COURSE CHANGES

BA 714 Accounting for Managers (3)
(Change title and description; decrease credits.)

BA 714 Managerial Accounting (2) Introduction to cost accounting terminology; costing strategies, nontraditional costing systems, activity-based costing and product-service costing applications.

BA 716 (3)
(Decrease credits; change description.)

BA 716 Managing Organizations (2) Organizations as complex social systems; leadership; managing individuals, groups, and teams; formal and informal processes and systems.

BA 717 (3)
(Increase credits.)

BA 717 Marketing Management (4)

BA 718 (3)
(Increase credits.)

BA 718 Financial Analysis (4)

BA 719 Marketing Analysis and Strategy (3)
(Change title and description; decrease credits.)

BA 719 Marketing Strategy (2) Marketing strategies for product-service introduction, growth, maturity, and decline; managing product-service innovation and development; brand equity, relationship marketing.

BA 720 Financial Management (3)
(Change title and description; decrease credits.)

BA 720 Financial Markets and Corporate Strategy (2) Advanced topics in firm valuation (e.g., acquisitions, restructuring) and financial risk management (e.g., hedging, derivatives, foreign projects) as related to corporate strategy.

BA 721 Management of Innovation and Change
(Change title and description.)

BA 721 Managing in the Future (3) Examines the role of leadership, organizational learning, and whole systems theory for managing organizations in the future.

BA 722 (3)
(Decrease credits; change course description.)

BA 722 Human Resource Management (2) Examines how to attract, retain, motivate, and manage people in organizations.

BA 724 Project and Systems Management (3)
(Change title and description; decrease credits.)

BA 724 Operations Strategy (2) Examines methods and processes for providing a competitive advantage through continuous quality and process improvements, supplier management, and efficient production of products and services.

BA 725 (3)
(Decrease credits; change course description.)

BA 725 Implementing Corporate Strategy (2) Uses problems and cases to examine the implementation of corporate strategy, the strategy process and cycle, and implementation methods.

BA 726 International Business Strategy
(Change title and description.)

BA 726 Global Business (3) Examines global competition and strategy, regional economic integration, cross-cultural challenges, foreign market entry, international joint ventures and strategic alliances, international dimensions in functional areas of business.

DECISION SCIENCES

OLD COURSES DROPPED

DSC 626 Decision Analysis for Negotiation Problems (3)
[Approved spring 1999.]

DSC 633 Applied Nonparametric Statistics (3)
[Approved spring 1999.]

EXISTING-COURSE CHANGE

DSC 335 Concepts of Production and Operations Management
(Change title and description.)

DSC Information Technology and Operations Management (4) Concepts and applications of operations management. Use of information technology in operations. Topics include forecasting, quality, supply chain management, information systems in operations management, and planning and scheduling.
[Approved spring 1999.]

FINANCE

OLD COURSES DROPPED

FINL 201 Business Economics (4)
[Approved spring 1999.]

FINL 446 Real Estate Finance (3)
[Approved spring 1999.]

FINL 447 Real Estate Investment Analysis (3)
[Approved spring 1999.]

FINL 495 Advanced Topics in Finance (4)
[Approved spring 1999.]

FINL 665 The Money and Bond Markets (3)
[Approved spring 1999.]

EXISTING-COURSE CHANGES

FINL 462 Financial Institutions and Markets. Prereq: FINL 316.
(Change title, description, and prerequisite.)

FINL 462 Derivative Markets and Financial Institutions (4) Valuation of financial derivatives, methodologies for identifying firms' risk exposures, the role of risk management and financial derivatives in corporate strategy, and analysis of financial institutions. Prereq: FINL 380 or instructor's consent.
[Approved spring 1999.]

FINL 667 Financial Institutions. Prereq: FINL 614, 616.
(Change title, description, and prerequisites.)

FINL 667 Corporate Risk Management (3) Analysis of tools for corporate risk management. Includes options, futures, swaps, and value-at-risk; theoretical rationales of corporate risk management; and management of asset and liability exposures by financial institutions. Prereq: FINL 683 or instructor's consent.
[Approved spring 1999.]

MANAGEMENT

OLD COURSES DROPPED

MGMT 441 Organization Design and Change (4)
(Replaced by MGMT 418.)
[Approved spring 1999.]

MGMT 453 Strategies for Global Competition (4)
[Approved spring 1999.]

MGMT 631 Motivation and Quality of Working Life (3)
[Approved spring 1999.]

MGMT 632 Employment Law and Legislation (3)
[Approved spring 1999.]

MGMT 633 Employee Benefits (3)
[Approved spring 1999.]

MGMT 635 Recruitment and Selection (3)
[Approved spring 1999.]

MGMT 636 Compensation Theory and Administration (3)
[Approved spring 1999.]

MGMT 639 Labor-Management Relations (3)
[Approved spring 1999.]

MGMT 641 Designing and Changing Organizations (3)
[Approved spring 1999.]

MGMT 644 Management of Technology and Innovation (3)
[Approved spring 1999.]

MGMT 645 Problems in International Business (3)
[Approved spring 1999.]

MGMT 647 International and Comparative Management (3)
[Approved spring 1999.]

EXISTING-COURSE CHANGES

MGMT 321 Management and Organizational Behavior
(Change title and description.)

MGMT 321 Managing Organizations (4) Roles of managers in planning, organizing, leading, and controlling organizations in a competitive global environment. Role of work teams and project management.

[Approved spring 1999.]

MGMT 420 International Management
(Change title.)

MGMT 420 Managing across Borders (4)
[Approved spring 1999.]

MGMT 435 Small-Business Management
(Change title and description.)

MGMT 435 Managing the Entrepreneurial Firm (4) Principles of managing the small to mid-size firm. Strategic planning skills and understanding the entrepreneurial environment.

[Approved spring 1999.]

MGMT 440 Case Studies in Small Business
(Change title and description.)

MGMT 440 Field Studies in Entrepreneurship (4) Analysis of business opportunities and problems of entrepreneurial companies. Students are matched with local companies in research projects under faculty supervision.

[Approved spring 1999.]

MGMT 611 Managing Organizations
(Change title.)

MGMT 611 Managing Effective Organizations (3)
[Approved spring 1999.]

MGMT 671 Theory and Research in Organizational Behavior
(Change title and description.)

MGMT 671 Management Theory and Research(3) Overview of management theory and research, including classic works in the field and contemporary challenges. Prereq: instructor's consent. Doctoral students only.

[Approved spring 1999.]

MGMT 672 Theory and Research in Organization and Management
(Change title and description.)

MGMT 672 Organizational Behavior (3) Theory and research on behavioral science applications to the work place. Individual differences, motivation and work behavior, job attitudes, socialization processes, leadership and group effectiveness. Doctoral students only.

[Approved spring 1999.]

MGMT 673 Theory and Research in Human Resources Management
(Change title and description.)

MGMT 673 Theory of the Firm (3) Origins and rationale for the modern corporation. Models from sociology and economics applied to innovation, top management teams, and organizational structure. Doctoral students only.

[Approved spring 1999.]

NEW COURSES

(Subject previously taught in MGMT 410 Experimental Course.)

MGMT 417 Negotiation and Conflict Resolution (4) Introduction to negotiation theory, distributive and integrative bargaining techniques, and alternative dispute resolution. Uses workshop format for in-class negotiation simulations. Prereq: MGMT 321. Meyer, Weinstein. Offered every year.

[Approved spring 1999.]

(Subject previously taught in MGMT 410 Experimental Course.)

MGMT 418 Managing Change (4) Managing the process of change in organizations. Includes establishing a vision and strategy for change and leading the organization through the steps required for successful implementation. Prereq: MGMT 321. Sherer, Terborg. Offered every year.

[Approved spring 1999.]

(Subject previously taught in MGMT 410/510 Experimental Course.)

MGMT 422 Strategies for Environmental Management (4) Exploration of the interaction among business, society, and the natural environment. Stresses a global perspective with special attention to cross-cultural and trade issues. Russo. Offered every year.

[Approved spring 1999.]

(Subject previously taught in MGMT 610 Experimental Course.)

MGMT 612 Managing in Competitive Environments (3) Strategic management and planning for firms in competitive environments. Analysis of global economy and interfirm cooperation. Application of stakeholder management model to address political and social imperatives. Meyer, Russo. Offered every year.

[Approved spring 1999.]

(Subject previously taught in MGMT 610 Experimental Course.)

MGMT 615 Leadership (4) Skills that managers need to be more effective in organizations. Includes communicating, problem solving, influencing, motivating, resolving conflict, delegating, and providing leadership. Mowday, Terborg. Offered every year.

[Approved spring 1999.]

(Subject previously taught in MGMT 607 Seminar.)

MGMT 690 Management Proseminar (1) P/N only. Contemporary issues in management research. Includes visiting speakers, resident faculty members, and doctoral students discussing their research. Prereq: instructor's consent. Doctoral students only.

[Approved spring 1999.]

MARKETING
(Business Environment, Marketing)

OLD COURSES DROPPED

BE 620 International Legal Environment of Business (3)

[Approved spring 1999.]

MKTG 454 Sports Licensing (4)

[Approved spring 1999.]

MKTG 686 Marketing Concepts and Theory (3)

[Approved spring 1999.]

NEW COURSES

(Subject previously taught in MKTG 410 Experimental Course.)

MKTG 481 Professional Selling (4) Develops a working understanding of professional selling processes. Topics include strategy development, motivation, leadership, performance analysis, buyer behavior issues, and relationship building. Prereq: MKTG 311 or instructor's consent. Boush, Daley, Kahle, Wright. Offered every year.

[Approved spring 1999.]

(Subject previously taught in MKTG 410 Experimental Course.)

MKTG 482 Advanced Sales Management (4) Explores the nature; rewards; social, ethical, and legal responsibilities of sales management. Includes planning, staffing, training, developing, directing, and controlling the sales force. Prereq: MKTG 311 or instructor's consent. Daley, Kahle. Offered every year.

[Approved spring 1999.]

(Subject previously taught in MKTG 610 Experimental Course.)

MKTG 650 Marketing Sports Properties (3) Graded only. Examines essentials of effective sports marketing. Includes product or property development, legal aspects, segmentation, pricing, and communication channels (e.g., broadcast media). Burton, Phelps. Offered every year.

[Approved spring 1999.]

(Subject previously taught in MKTG 610 Experimental Course.)

MKTG 652 Sports Sponsorship Alliances (3) Graded only. Detailed consideration of the relation between sports, law, and corporate sponsorship programs. Focuses on alignment marketing issues, strategic communication through sponsorship, sponsor value, and sponsorship valuation. Howard, Madrigal. Offered every year.

[Approved spring 1999.]

MKTG 655 Economic Aspects of Sports Marketing (3) Graded only. Comprehensive coverage of traditional and innovative revenue methods available to sports organizations from public and private sources. Detailed consideration of venue-based income sources (e.g., premium seating, permanent seat licenses). Offered every year.

[Approved spring 1999.]

COLLEGE OF EDUCATION

APPLIED BEHAVIORAL AND COMMUNICATION SCIENCES (Communication Disorders and Sciences, Counseling, Counseling Psychology)

OLD COURSES DROPPED

CDS 661 Auditory Language Processing (3)
[Approved winter 1999, effective fall 1999.]

CPSY 458/558 Prevention Strategies (3)
[Approved winter 1999, effective fall 1999.]

CPSY 475/575 Supervision in Human Service Agencies (3)
[Approved winter 1999, effective fall 1999.]

CPSY 618 Intake Interview and Assessment (3) P/N only
[Approved winter 1999, effective fall 1999.]

CPSY 678 Transactional Analysis and Gestalt Approaches to Counseling (3)
[Approved winter 1999, effective fall 1999.]

EXISTING-COURSE CHANGES

CPSY 613 Introduction to the Counseling Discipline
(Change title.)

CPSY 613 Introduction to Counseling Psychology (3)

CPSY 621 Psychological Assessment in Counseling (3)
(Change title; increase credits.)

CPSY 621 Psychological Assessment I (4)

CPSY 622 Advanced Psychological Assessment in Counseling (3)
(Change title; increase credits.)

CPSY 622 Psychological Assessment II (4)

CPSY 641 Behavior Change: Beginning Counseling Skills (3)
(Change title; increase credits.)

CPSY 641 Beginning Counseling Skills (4)

CPSY 642 Behavior Change: Child-Family Intervention (3)
(Change title; increase credits.)

CPSY 642 Child and Family Interventions (4)

CPSY 643 Community Preventive Intervention
(Change title.)

CPSY 643 Community and Preventive Interventions (3)

CPSY 644 Group Intervention (3)
(Change title; increase credits.)

CPSY 644 Group Counseling (4)

NEW COURSES

COUN 503 Thesis (1–16R) P/N only

COUN 601 Research: [Topic] (1–16R) P/N only

COUN 605 Reading and Conference: [Topic] (1–16R) [Graded only for majors]

COUN 606 Special Problems: [Topic] (1–16R) [Graded only for majors]

COUN 607 Seminar: [Topic] (1–5R) [Graded only for majors]

COUN 608 Workshop: [Topic] (1–16R) P/N only

COUN 609 Practicum: [Topic] (1–16R) P/N only

COUN 610 Experimental Course: [Topic] (1–5R) [Graded only for majors]

EDUCATIONAL LEADERSHIP, TECHNOLOGY, AND ADMINISTRATION

EXISTING-COURSE CHANGES

ELTA 665 Project Management (3) See APPLIED INFORMATION MANAGEMENT under GRADUATE SCHOOL.

ELTA 668 Information Systems and Management (3) See APPLIED INFORMATION MANAGEMENT under GRADUATE SCHOOL.

ELTA 669 Data Management and Communications (3) See APPLIED INFORMATION MANAGEMENT under GRADUATE SCHOOL.

SPECIAL EDUCATION AND COMMUNITY RESOURCES (School Psychology, Special Education—Exceptional Learner)

OLD COURSES DROPPED

SPSY 651 Attention Deficit Hyperactivity Disorder (3)
[Approved winter 1999, effective fall 1999.]

SPSY 683 Family Interventions in Childhood Behavior Disorders (3)
[Approved winter 1999, effective fall 1999.]

NEW COURSES

(Subject previously taught in SPED 407/507 Experimental Course.)

SPED 432/532 Introduction to Behavioral Disorders (3) Graded only. Introduces the characteristics and education of children and youth who have emotional and behavioral disorders (EBDs). Prereq: SPED 411/511, 430/530. Bullis, Colvin, Hogan, Palmer, Sugai. Offered every year.
[Approved spring 1999.]

(Subject previously taught in SPED 407/507 Experimental Course.)

SPED 433/533 Schoolwide Discipline (3) P/N only. Describes features, principles, and procedures of schoolwide management and discipline. Prereq: SPED 426/526. Colvin, Horner, Palmer, Sprague, Sugai, Todd. Offered every year.

[Approved spring 1999.]

(Subject previously taught in SPED 407/507 Experimental Course.)

SPED 434/534 Educating Students with Behavioral Disorders (3) Provides overview of promising and preferred practices for educating children and youth who have emotional and behavioral disorders (EBDs). Prereq: SPED 426/526; SPED 411/511 or 430/530. Colvin, Hagan, Palmer, Sugai. Offered every year.

[Approved spring 1999.]

OTHER

(Education, Educational Studies)

OLD COURSES DROPPED

EDUC 611 Master's Project (3)

[Approved winter 1999, effective fall 1999.]

EDUC 655 Final Field Experience (12)

[Approved winter 1999, effective fall 1999.]

EDUC 661 Early Childhood Curriculum and Assessment (6)

[Approved winter 1999, effective fall 1999.]

EDUC 662 Administration of Early Childhood Programs (3)

[Approved winter 1999, effective fall 1999.]

EDUC 671 Personalized Learning for Diverse Students (3)

[Approved winter 1999, effective fall 1999.]

EDUC 683 Analyzing Reading Research (4)

[Approved winter 1999, effective fall 1999.]

EDUC 684 Curricula and Contexts of Literacy (4)

[Approved winter 1999, effective fall 1999.]

SCHOOL OF MUSIC

(Music, Music Education, Jazz Studies)

OLD COURSES DROPPED

MUS 326 Analysis (3)

***MUS 352 The Classic Symphony and Sonata (3)**

[Remove from Group I (arts and letters).]

***MUS 354 Introduction to Twentieth-Century Music (3)**

[Remove from Group I (arts and letters).]

***MUS 415/515 Piano: The Inside Story (3R)**

***MUS 612 Research Methods in Music (3)**

***MUJ 460/560 Jazz Pedagogy (3)**

EXISTING-COURSE CHANGES

MUS 234, 235, 236; 2 credits each

(Increase credits.)

MUS 234, 235, 236 Aural Skills II (3,3,3)

[Approved winter 1999, effective fall 1999.]

MUS 351; 3 credits

(Increase credit.)

MUS 351 The Music of Bach and Handel (4)

[Still satisfies Group I (arts and letters); approved winter 1999, effective fall 1999.]

MUS 353; 3 credits

(Increase credit.)

MUS 353 Survey of Opera (4)

[Still satisfies Group I (arts and letters); approved winter 1999, effective fall 1999.]

MUE 471/571 (2)

(Increase credit.)

MUE 471/571 Pedagogy I: Teaching Beginners (3)

[Approved winter 1999, effective fall 1999.]

MUE 605 (1-2R)

(Increase credit range.)

MUE 605 Reading and Conference: [Topic] (1-4R)

[Approved winter 1999, effective fall 1999.]

OTHER

GRADUATE SCHOOL

APPLIED INFORMATION MANAGEMENT

EXISTING-COURSE CHANGES

ELTA 665

(Change subject code.)

AIM 665 Project Management (3)

[Approved winter 1999, effective fall 1999.]

ELTA 668

(Change subject code.)

AIM 668 Information Systems and Management (3)

[Approved winter 1999, effective fall 1999.]

ELTA 669

(Change subject code.)

AIM 669 Data Management and Communications (3)

[Approved winter 1999, effective fall 1999.]

NEW COURSES

AIM 407/507 Seminar: [Topic] (1-5R)

[Approved winter 1999, effective fall 1999.]

AIM 408/508 Workshop: [Topic] (1-6R)

[Approved winter 1999, effective fall 1999.]

AIM 607 Seminar: [Topic] (1-5R)

[Approved winter 1999, effective fall 1999.]

AIM 608 Workshop: [Topic] (1-6R)

[Approved winter 1999, effective fall 1999.]

AIM 609 Terminal Project (1-6R)

[Approved winter 1999, effective fall 1999.]

LIBRARY

OLD COURSE DROPPED

LIB 210 Research Strategies and Information Technology (3)

[Approved winter 1999, effective fall 1999.]

EXISTING-COURSE CHANGE

LIB 101 Introduction to the Library

(Change title.)

LIB 101 Introduction to Library Research (1)

[Approved winter 1999, effective fall 1999.]

NEW COURSES

(Replaces LIB 210.)

LIB 323 Modern Information Environment (4) Discusses the complexities of the modern information environment. Develops skills in locating, retrieving, and evaluating information. Examines the sociopolitical issues of information access.

[Approved winter 1999, effective fall 1999.]

LIB 399 Special Studies: [Topic] (1–5R) Introduction to general library resources and to subject-related library resources. R when topic changes.

[Approved winter 1999, effective fall 1999.]

(Subject previously taught in LIB 410/510 Experimental Course.)

LIB 453/553 Government Information (4) Characteristics and life cycles of information produced by federal, state, and local government bodies. Policies governing access to public information. Finding and using government information.

[Approved winter 1999, effective fall 1999.]

(Subject previously taught in LIB 199H Special Studies and in LIB 410/510 Experimental Course.)

LIB 463/563 Internet Information and Culture (4) Examines the social, economic, and political impact of cyberspace on society. Develops cyberspace literacy skills, including finding information, critical evaluation of information, and web publishing.

[Approved winter 1999, effective fall 1999.]

PHYSICAL ACTIVITY AND RECREATION SERVICES

PHYSICAL EDUCATION

(Aerobics, Aquatics, Aquatic SCUBA, Individual Activities,
Outdoor Pursuits—Land, Team Sports)

OLD COURSES DROPPED

*PEOL 201–299 Outdoor Pursuits—Land: [Topic] (1–2R) 287: Ice Climbing Preparation, 289: Glacier School Preparation

*PEOL 301–398 Outdoor Pursuits—Land: [Topic] (1–2R) 365: Glacier School

EXISTING-COURSE CHANGES

PEAQ 368 Physical Education Basic Scuba

(Change subject code and title.)

PEAS 368 Physical Education Aquatic SCUBA: Basic SCUBA (2R)

[Approved winter 1999, effective fall 1999.]

PEAQ 369 Physical Education Advanced Scuba

(Change subject code and title.)

PEAS 369 Physical Education Aquatic SCUBA: Advanced SCUBA (1R)

[Approved winter 1999, effective fall 1999.]

PEAQ 370 Physical Education Scuba (Rescue Diver)

(Change subject code and title.)

PEAS 370 Physical Education Aquatic SCUBA: Rescue Diver (1R)

[Approved winter 1999, effective fall 1999.]

PEAQ 371 Physical Education Scuba (Underwater Navigator)

(Change subject code and title.)

PEAS 371 Physical Education Aquatic SCUBA Underwater Navigator (1R)

[Approved winter 1999, effective fall 1999.]

PEAQ 372 Physical Education Scuba (Altitude Diver)

(Change subject code and title.)

PEAS 372 Physical Education Aquatic SCUBA: Altitude Diver (1R)

[Approved winter 1999, effective fall 1999.]

PEAQ 373 Physical Education Scuba (Search and Recovery)

(Change subject code and title.)

PEAS 373 Physical Education Aquatic SCUBA: Search and Recovery (1R)

[Approved winter 1999, effective fall 1999.]

PEAQ 374 Physical Education Scuba (Multilevel Diver–Drift Diver)

(Change subject code and title.)

PEAS 374 Physical Education Aquatic SCUBA: Multilevel Diver–Drift Diver (1R)

[Approved winter 1999, effective fall 1999.]

PEAQ 375 Physical Education Scuba (Deep Diver)

(Change subject code and title.)

PEAS 375 Physical Education Aquatic SCUBA: Deep Diver (1R)

[Approved winter 1999, effective fall 1999.]

PEAQ 376 Physical Education Scuba (Night Diver–Underwater Naturalist)

(Change subject code and title.)

PEAS 376 Physical Education Aquatic SCUBA: Night Diver–Underwater Naturalist (1R)

[Approved winter 1999, effective fall 1999.]

PEAQ 381 Physical Education Scuba (Dive Master I)

(Change subject code and title.)

PEAS 381 Physical Education Aquatic SCUBA: Dive Master I (2R)

[Approved winter 1999, effective fall 1999.]

PEAQ 382 Physical Education Scuba (Dive Master II)

(Change subject code and title.)

PEAS 382 Physical Education Aquatic SCUBA: Dive Master II (2R)

[Approved winter 1999, effective fall 1999.]

PEAQ 383 Physical Education Scuba (Professional Association of Diving Instructors Instructor-Development Course)

(Change subject code and title.)

PEAS 383 Physical Education Aquatic SCUBA: Professional Association of Diving Instructors Instructor-Development Course (2R)
[Approved winter 1999, effective fall 1999.]

NEW COURSES

PEAE 132 Physical Education Aerobics: Body Sculpting II (1R)
[Effective fall 1997.]

(Subject previously taught in PEAQ 199 Physical Education Aquatics: Special Studies.)
PEAQ 225 Physical Education Aquatics: Swim and Run (2R) R once for maximum of 4 credits.
[Approved winter 1999, effective fall 1999.]

PEAS 199 Physical Education Aquatic SCUBA: Special Studies: [Topic] (1-2R)
[Approved winter 1999, effective fall 1999.]

PEAS 399 Physical Education Aquatic SCUBA: Special Studies: [Topic] (1-2R)
[Approved winter 1999, effective fall 1999.]

(Subject previously taught in PEI 399 Physical Education Individual Activities: Special Studies.)
PEI 223 Physical Education Individual Activities: Billiards III (1R) P/N only. R once for maximum of 2 credits. Prereq: PEI 222 or equivalent.
[Approved winter 1999, effective fall 1999.]

(Subject previously taught in PETS 399 Physical Education Team Sports: Special Studies.)
PETS 235 Physical Education Team Sports: Grass Volleyball (1R) R once for maximum of 2 credits.
[Approved winter 1999, effective fall 1999.]

OTHER CURRICULAR MATTERS (effective fall 2000 unless stated otherwise)

UNDERGRADUATE GENERAL-EDUCATION REQUIREMENTS

GROUP REQUIREMENTS

To promote educational breadth, all bachelor's degree candidates are required to complete work in each of three groups representing comprehensive fields of knowledge: arts and letters, social science, and science. Group-satisfying requirements are determined according to the degree to be earned.

REVISED GROUP-REQUIREMENT POLICIES

The following criteria, proposed by the Undergraduate Council and the College of Arts and Sciences Curriculum Committee, were approved by the University Senate in May 1998.

1. Group-satisfying courses proposed by departments or individual faculty members must be reviewed by both the College of Arts and Sciences Curriculum Committee and the University Committee on Courses before submission to the University Senate.
2. Group-satisfying courses must be numbered at the 100, 200, and 300 levels. Lower-division courses must be offered annually and upper-division courses at least biannually. Approved courses must be at least 3 credits each.
3. No more than three courses with the same subject code may be counted by a student as satisfying group requirements.
4. Group-satisfying courses in arts and letters, social science, and science must meet the following criteria:
 - a. Group-satisfying courses in arts and letters must create meaningful opportunities for students to engage actively in the modes of inquiry that define a discipline. Proposed courses must be demonstrably liberal in nature and broad in scope. Though some courses may focus on specialized subjects or approaches, there must be a substantial course content locating that subject in the broader context of the major issues of the discipline. Qualifying courses will not focus on teaching basic skills but will require the application or engagement of those skills through analysis and interpretation.
 - b. Group-satisfying courses in the social sciences must be liberal in nature rather than professionally oriented or devoted in substantial measure to the performance of professional skills. They must cover a representative cross-section of key issues, perspectives, and modes of analysis employed by scholars working on the subject matter addressed by the course. The subject matter of the course will be relatively broad (e.g., involving more than one issue, place, or time). Courses with an emphasis on methods and skills will satisfy the requirement only if there is also a substantial and coherent theoretical component.
 - c. Group-satisfying courses in the sciences should introduce students to the foundations of one or more scientific disciplines, or provide a scientific perspective on a major problem facing society, or provide an introduction to scientific methods (including the use of mathematics and computers) used within or among disciplines.
5. In particular:
 - a. Courses designed primarily for majors are not excluded a priori from group status.
 - b. Courses in methods or statistical analysis are excluded in the social sciences, but courses in theory construction are acceptable.

- c. Laboratory courses are not excluded from group-satisfying status in the sciences.
- d. Qualifying courses in arts and letters cannot focus on teaching basic skills, so first-year German, for example, could not qualify for group status, but reading Goethe in German might.

SUMMARY OF CHANGES IN GROUP-SATISFYING STATUS

GROUP I: ARTS AND LETTERS

English

Add course:

ENG 340 Jewish Writers (*effective spring 2000*)

Humanities

Add courses:

HUM 251 The Ancient City

HUM 253 The Modern City

Music

Remove courses:

MUS 352 The Classic Symphony and Sonata

MUS 354 Introduction to Twentieth-Century Music

Romance Languages: French

Change courses:

FR 301 *Culture et langage: la France contemporaine* (formerly Reading French) (*approved spring 1999*)

FR 303 *Culture et langage: identités francophones* (formerly Writing French) (*approved spring 1999*)

Add courses:

FR 320 Intensive French Grammar Review (*approved spring 1999*)

FR 363 *Le français du monde économique moderne* (*approved spring 1999*)

Romance Languages: Italian

Remove course:

ITAL 342 Italian Literature in Translation (*approved spring 1999*)

Change courses:

ITAL 301 *Cultura e lingua: l'Italia contemporanea (formerly Reading Italian) (approved spring 1999)*

ITAL 303 *Cultura e lingua: società, economia, politica (formerly Writing Italian) (approved spring 1999)*

Add courses:

ITAL 305 *Cultura e lingua: arte, musica, i mass media (approved spring 1999)*

ITAL 320 *Intensive Italian Grammar Review (approved spring 1999)*

GROUP II: SOCIAL SCIENCE

Anthropology

Remove course:

ANTH 220 *Introduction to Japanese Society and Culture*

History

Remove course:

HIST 122 *World History since 1700 (effective fall 1999)*

Change courses:

HIST 104, 105 *World History (formerly HIST 120, 121 World History to 1700) (effective fall 1999)*

HIST 106 *(World History (formerly HIST 123 World History since 1700) (effective fall 1999)*

Add course:

HIST 273 *Introduction to American Environmental History (effective fall 1999)*

Linguistics

Change courses:

LING 211 *Languages of the World (formerly LING 311) (approved winter 1999, effective fall 1999)*

LING 290 *Introduction to Linguistic Analysis (formerly Introduction to Linguistics) (approved spring 1999)*

GROUP III: SCIENCE

Biology

Change course:

BI 122 *Introduction to Human Genetics (formerly Human Genetics) (approved spring 1999)*

Computer and Information Science

Add course:

CIS 123 Multimedia on the Web (*approved spring 1999*)

Geological Sciences

Change courses:

GEOL 101 Earth's Dynamic Interior (*formerly Introduction to Geology: The Dynamic Interior*) (*effective fall 1999*)

GEOL 102 Environmental Geology and Landform Development (*formerly Introduction to Geology: The Face of the Earth*) (*effective fall 1999*)

GEOL 103 The Evolving Earth (*formerly Introduction to Geology: The Evolving Earth*) (*effective fall 1999*)

GEOL 201 Earth's Interior Heat and Dynamics (*formerly General Geology: Earth's Interior Heat and Dynamics*) (*effective fall 1999*)

GEOL 202 Earth Surface and Environmental Geology (*formerly General Geology: Earth's Surface Processes and Morphology*) (*effective fall 1999*)

GEOL 203 Evolution of the Earth (*formerly General Geology: Evolution of the Earth*) (*effective fall 1999*)

GEOL 213 Geology of the National Parks (*formerly GEOL 303*) (*effective fall 1999*)

Physics

Remove course:

PHYS 303 Physicists' View of Nature (*approved spring 1999*)

MULTICULTURAL REQUIREMENT

Bachelor's degree candidates . . . must complete one course in two of the following three categories. A minimum of 6 credits in approved courses must be earned.

MULTICULTURAL-CATEGORY DEFINITIONS

Category A: American Cultures. The goal is to focus on race and ethnicity in the United States by considering racial and ethnic groups from historical and comparative perspectives. Five racial or ethnic groups are identified: African American, Chicano or Latino, Native American, Asian American, European American. Approved courses deal with at least two of these groups in a comparative manner. They do not necessarily deal specifically with discrimination or prejudice, although many do.

Category B: Identity, Pluralism, and Tolerance. The goal is to gain scholarly insight into the construction of collective identities, the emergence of representative voices from varying social and cultural standpoints, and the effects of prejudice, intolerance, and discrimination. The identities at issue may include ethnicities as in the American Cultures category, as well as classes, genders, religions, sexual orientations, or other groups whose experiences contribute to cultural pluralism. This category includes courses that analyze the general principles underlying tolerance, or the lack of it.

Category C: International Cultures. The goal is to study world cultures in critical perspective. Approved courses either treat an international culture in view of the issues raised in Categories A and B—namely, race and ethnicity, pluralism and monoculturalism, and/or prejudice and tolerance—or explicitly describe and analyze a world-view—i.e., a system of knowledge, feeling, and belief—that is substantially different from those prevalent in the 20th-century United States.

SUMMARY OF CHANGES IN MULTICULTURAL STATUS

CATEGORY A: AMERICAN CULTURES

Clark Honors College

Remove course:

HC 307 (H) Historical-Comparative Inequality in the United States: [Topic]

English

Add courses:

ENG 463 Native American Women Writers (*effective fall 1999*)

ENG 464 Native Americans in Literature and Law (*effective fall 1999*)

ENG 480 Native American Representation in Film (*effective fall 1999*)

History

Add course:

HIST 273 Introduction to American Environmental History (*effective fall 1999*)

CATEGORY B: IDENTITY, PLURALISM, AND TOLERANCE

Anthropology

Remove courses:

ANTH 322 Euro-American Images of Native North America

ANTH 468 Race, Culture, and Sociobiology

Add course:

ANTH 448 Gender and Prehistory (*approved spring 1999*)

Clark Honors College

Remove course:

HC 308 (H) Unequal Relations in the United States: [Topic]

CATEGORY C: INTERNATIONAL CULTURES

Anthropology

Remove courses:

ANTH 220 Introduction to Japanese Society and Culture

ANTH 431 Peoples of East Asia

ANTH 438 Minority Cultures of Southeast Asia

History

Remove course:

HIST 122 World History since 1700 (*effective fall 1999*)

Change courses:

HIST 104, 105 World History (*formerly HIST 120, 121 World History to 1700*) (*effective fall 1999*)

HIST 106 World History (*formerly HIST 123 World History since 1700*) (*effective fall 1999*)

Linguistics

Change course:

LING 211 Languages of the World (*formerly LING 311*) (*effective fall 1999*)

Romance Languages: French

Add courses:

FR 301 *Culture et langage: la France contemporaine (formerly Reading French) (approved spring 1999)*

FR 303 *Culture et langage: identités francophones (formerly Writing French) (approved spring 1999)*

Romance Languages: Italian

Add courses:

ITAL 301 *Cultura e lingua: l'Italia contemporanea (formerly Reading Italian) (approved spring 1999)*

ITAL 303 *Cultura e lingua: società, economia, politica (formerly Writing Italian) (approved spring 1999)*

ITAL 305 *Cultura e lingua: arte, musica, i mass media (approved spring 1999)*

ITAL 320 *Intensive Italian Grammar Review (approved spring 1999)*

UNDERGRADUATE MAJORS

ENVIRONMENTAL SCIENCE

(approved winter 1999, effective fall 1999)

In addition to the existing major in environmental studies, the Environmental Studies Program offers a new major in environmental science. Leading to either a bachelor of arts or a bachelor of science degree, the major requires a minimum of 104 credits, including 52 lower-division science credits and 20 credits in environmental social sciences and humanities. Upper-division credits can be earned exclusively in courses or through a combination of course work and a student-initiated project. An experiential-learning component is also required. Required credits for the environmental science major are distributed as follows:

1. **Environmental Studies Core.** Introduction to Environmental Studies: Social Sciences (ENVS 201), Introduction to Environmental Studies: Natural Sciences (ENVS 202), Introduction to Environmental Studies: Humanities (ENVS 203)

2. **Mathematics and Natural Sciences**

Mathematics. Calculus I,II (MATH 251, 252); one 300- or 400-level course in statistics or data analysis—e.g., Geographic Data Analysis (GEOG 314) or Statistical Methods I (MATH 425)

Natural Sciences. at least three introductory science sequences selected from the following:

Chemistry. Introductory General Chemistry (CH 211–213) *or* General Chemistry (CH 221–223) *or* equivalent. General Chemistry Laboratory (CH 227–229) strongly recommended simultaneously

Earth sciences. Earth's Interior Heat and Dynamics (GEOL 201), Earth Surface and Environmental Geology (GEOL 202), Evolution of the Earth (GEOL 203) *or* The Natural Environment (GEOG 101), Global Environmental Change (GEOG 102), Evolution of the Earth (GEOL 203) *or* equivalent

Life sciences. General Biology I: Cells (BI 211), General Biology II: Organisms (BI 212), General Biology III: Populations (BI 213) *or* Foundations I: Genetics and Evolution (BI 261), Foundations II: Molecular Genetics (BI 262), Foundations III: Biochemical Basis of Life (BI 263), Foundations IV: Biological Interactions (BI 264) *or* Introduction to Chemical Principles (CH 111), General Biology I: Cells (BI 211), General Biology III: Populations (BI 213)

Physical sciences. General Physics (PHYS 201, 202, 203) *or* equivalent. Introductory Physics Laboratory (PHYS 204, 205, 206) strongly recommended.

3. **Advanced Environmental Science**

Six natural science upper-division courses selected from the following lists. Courses must be taken from at least four of the six areas, including at least one course from Human Dimensions and one course from Analytical Approaches.

Analytical approaches. Population Ecology (BI 471), Quantitative Ecology (BI 473), Modeling and Simulation (CIS 445), Computational Science (CIS 455), Advanced Geographic Data Analysis: [Topic] (GEOG 414), Introductory Geographic Information Systems (GEOG 416)

Atmosphere. Climatology (GEOG 321)

Biosphere. Forest Biology (BI 307), Marine Biology (BI 357), Ecology (BI 370), Biological Diversity (BI 375), Special Studies: Conservation Biology (BI 399), Marine Biology: [Topic] (BI 457) with appropriate topic, Marine Ecology (BI 474), Biogeography (GEOG 323), Principles of Applied Ecology (LA 441)

Geosphere. Geomorphology (GEOG 322), Soil Genesis and Geography (GEOG 424), Mineralogy II: Systematic Mineralogy (GEOL 312), General Petrology (GEOL 313), Sedimentology and Stratigraphy (GEOL 334), Structural Geology (GEOL 350)

Human dimensions. Human Ecology (ANTH 360), Population and Environment (GEOG 341), Climatological Aspects of Global Change (GEOG 432), Environmental Alteration (GEOG 461), Geologic Hazards (GEOL 353)

Hydrosphere. Freshwater Biology (BI 308), Marine Biology: [Topic] (BI 457) with appropriate topic, Biological Oceanography (BI 458), Hydrology and Water Resources (GEOG 425), Hydrogeology (GEOL 451), Aqueous Geochemistry (GEOL 472)

4. Additional Advanced Electives

A. Advanced Science. Two courses selected from the following lists:

Anthropology. Human Ecology (ANTH 360), Human Evolution (ANTH 361), Food and Culture (ANTH 365), Human Adaptation (ANTH 367)

Biology. Forest Biology (BI 307), Freshwater Biology (BI 308), Microbiology (BI 330) with laboratory (BI 331), Plant Diversity and Physiology (BI 340), Invertebrate Biology (BI 351), Marine Biology (BI 357), Ecology (BI 370), Biological Diversity (BI 375), Evolution (BI 380), Animal Behavior (BI 390), Marine Field Studies: [Topic] (BI 412), Algae and Photosynthetic Bacteria (BI 431), Mycology (BI 432), Systematic Botany (BI 442), Field Botany (BI 448), Invertebrate Zoology (BI 451), Insect Biology (BI 452), Marine Birds and Mammals (BI 455), Marine Biology: [Topic] (BI 457), Biological Oceanography (BI 458), Field Ornithology (BI 459), Population Ecology (BI 471), Community Ecology (BI 472), Quantitative Ecology (BI 473), Marine Ecology (BI 474), Freshwater Ecology (BI 475), Microbial Ecology (BI 477), Advanced Evolutionary Genetics (BI 482), Conservation Biology (BI 483), Paleobiology and Paleoecology (BI 485), Methods of Pollen Analysis (BI 495)

Chemistry. Organic Chemistry I (CH 331)

Computer and information science. Modeling and Simulation (CIS 445), Computational Science (CIS 455)

Geography. Climatology (GEOG 321), Geomorphology (GEOG 322), Biogeography (GEOG 323), Advanced Geographic Data Analysis: [Topic] (GEOG 414), Introductory Geographic Information Systems (GEOG 416), Advanced Climatology: [Topic] (GEOG 421), Advanced Geomorphology (GEOG 422), Advanced Biogeography : [Topic] (GEOG 423), Soil Genesis and Geography (GEOG 424), Hydrology and Water Resources (GEOG 425), Fluvial Geomorphology (GEOG 427), Long-Term Environmental Change (GEOG 430), Vegetation History and Ecosystem Dynamics (GEOG 431), Climatological Aspects of Global Change (GEOG 432), Environmental Alteration (GEOG 461)

Geological sciences. Mineralogy II: Systematic Mineralogy (GEOL 312), General Petrology (GEOL 313), Sedimentology and Stratigraphy (GEOL 334), Structural Geology (GEOL 350), Sedimentary Petrology (GEOL 416), Geology of Ore Deposits (GEOL 425), Paleontology: Paleozoic Marine Fossils (GEOL 431), Paleontology II: Mesozoic and Cenozoic Marine Fossils (GEOL 432), Paleontology III: Nonmarine Fossils (GEOL 433), Paleopedology (GEOL 435), Hydrogeology (GEOL 451), Neotectonics and Quaternary Geology (GEOL 452), Geological and Environmental Fluid Mechanics (GEOL 454), Environmental Field Geophysics (GEOL 464), Aqueous Geochemistry (GEOL 472)

Landscape architecture. Landscape Ecology (LA 412), Principles of Applied Ecology (LA 441)

Mathematics. Linear Algebra (MATH 341) *or* Matrix Algebra (MATH 440)

B. Advanced Social Science and Humanities. Two courses selected from the following lists:

Architecture. Environmental Control Systems I,II (ARCH 491, 492), Solar Heating (ARCH 493), Passive Cooling (ARCH 494), Daylighting (ARCH 495)

Art history. Native American Architecture (ARH 463)

Economics. Resource and Environmental Economic Issues (EC 333), Urban and Regional Economics (EC 430), Issues in Urban and Regional Economics (EC 431), Economy of the Pacific Northwest (EC 432), Resource and Environmental Economics (EC 433), Economic Growth and Development (EC 490)

English. Literature of the Northwest (ENG 325), Literature and the Environment (ENG 469)

Geography. Population and Environment (GEOG 341), Political Geography (GEOG 441), Urban Geography (GEOG 442), Environmental Alteration (GEOG 461), Historical and Contemporary Views of the Environment (GEOG 462), Geography, Law, and the Environment (GEOG 463)

International studies. International Community Development (INTL 420), Gender and International Development (INTL 421), World Value Systems (INTL 430), Cross-Cultural Communication (INTL 431)

Landscape architecture. Site Analysis (LA 361), Landscape Architectural Design (LA 389), Urban Farm (LA 390), Landscape Planning (LA 411), Introduction to Landscape Planning Analysis (LA 440), Land and Landscape (LA 443), Landscape Preservation (LA 480), Landscape Perception (LA 484), Contemporary American Landscape (LA 485), Site Planning and Design (LA 489)

Physics. Physicists' View of Nature (PHYS 301, 302)

Planning, public policy and management. Introduction to Public Service Management (PPPM 322), Public Service Policies and Programs (PPPM 323), Introduction to Public Law (PPPM 418), Environmental Planning (PPPM 426), Natural Resource Policy (PPPM 443), Communities and Regional Development (PPPM 445)

Political science. Feminism and Ecology (PS 434), Government and Politics of Latin America I,II (PS 463, 464), Politics and Ecology (PS 474), International Environmental Politics (PS 477), Feminist Theory (PS 483), Environmental Politics (PS 497)

Sociology. World Population and Social Structure (SOC 303), Community, Environment, and Society (SOC 304), Issues in Sociology of the Environment: [Topic] (SOC 416)

C. Capstone Course. Environmental Issues: [Topic]. Variable topics have common elements, including focus on controversial issues, interdisciplinary themes, formats that encourage student participation, and emphasis on student projects and presentations.

5. Experiential Learning

Complete one of the following:

- one term at Oregon Institute of Marine Biology, Malheur Field Station, or another field station
- two terms of research with UO faculty member in environmental sciences
- internship with substantial environmental science component—subject to approval by the environmental studies internship coordinator
 - science-oriented student-initiated project (SIP)—subject to approval by environmental studies SIP coordinator
 - other science-oriented experiential learning as approved by environmental studies director or head adviser

Options and Restrictions

Student-initiated project (12 credits). Students choosing this limited-enrollment option must submit a proposal for their project. Admission is based on the quality of the proposal—general focus, integration of activities, detailed planning—and an evaluation of the student's academic record. This option can replace two upper-division courses in 4.A. and/or 4.B.

Departmental honors. To graduate with honors in environmental science, a student must (a) have at least a 3.30 cumulative grade point average and a 3.50 GPA in courses required for the major, and (b) complete a science-

oriented honors thesis under the supervision of a faculty member associated with the Environmental Studies Program.

At least 24 credits in courses applied to the major must be taken at the University of Oregon. Courses applied to the major must be graded unless pass/no pass (P/N) is the only available option. Grades of C- or better are required in all courses applied to the major. Not more than four courses applied to Areas 3 and 4 can be in the same subject code. All lower-division credits and up to 16 upper-division credits applied to an environmental science major can also be applied to a second major. However, no upper-division credits may be applied to both an environmental science major and an environmental studies major.

PHOTOGRAPHY

On October 7, 1999, the Undergraduate Council approved a new undergraduate major in photography leading to a bachelor of fine arts (B.F.A.) degree. The Department of Fine and Applied Arts, in the School of Architecture and Allied Arts, oversees the program.

UNDERGRADUATE MINOR

COMPUTER INFORMATION TECHNOLOGY

(approved spring 1999)

Approved by the Undergraduate Council, the Department of Computer and Information Science offers a new undergraduate minor in computer information technology. The minor requires a minimum of 24 letter-graded credits, distributed as follows:

Lower Division	12 credits
Advanced Business Systems (CIT 281).....	4
Select two courses from Concepts of Computing: Information Processing (CIS 120), Concepts of Computing: Computers and Computation (CIS 121), Concepts of Computing: Algorithms and Programming (CIS 122), Multimedia on the Web (CIS 123)	8
Upper Division	12 credits
Database Systems (CIT 381)	4
Information Architectures and Intranets (CIT 382)	4
Enterprise Networking (CIT 383).....	4

The department continues to offer a major and a minor in computer and information science.

UNDERGRADUATE CERTIFICATE

SECOND-LANGUAGE ACQUISITION AND TEACHING

(approved winter 1999, effective fall 1999)

On January 19, 1999, the Undergraduate Council approved a proposal for an undergraduate certificate in second-language acquisition and teaching (SLAT). Offered by the Department of Linguistics, the new certificate program will take effect fall 1999. The program requires two or three years of a second language and 23–24 credits, distributed as follows:

- A. Principles Core (12 credits)
 - Linguistic Principles and Second-Language Learning (LING 440) *or* Second-Language Acquisition (LING 444)
 - Second-Language Teaching (LING 445)
 - Second-Language Teaching Practice (LING 446)

Strongly recommended:

 - Introduction to Linguistics (LING 290)
 - Cross-Cultural Communication (INTL 431) *or* similar course
 - Advanced courses in language teaching methodologies
- B. Target Language Focus (8 credits plus two or three years of second language)
 - 1. If target language is English: