



CURRICULUM

Vol. 14 No. 4 The University of Arizona November 18, 1991

USE OF THIS BULLETIN: This material is presented to the Faculty Senate for information or approval as designated. Prior to approval, the material is subject to university-wide review. Questions or objections may be referred to the Curriculum Office, Admin. 412, ext. 1-3913, *prior* to the date below. Items for which objections are raised and which are not resolved will be withdrawn from consideration prior to faculty senate approval. Questions or objections raised after the deadline will be referred to the Faculty Senate or appropriate Council. Deadline for objections on material in this bulletin is December 2, 1991.

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I. NOTICES (for approval)

- A. Majors in Biochemistry and Microbiology: The University Departments of Biochemistry and of Microbiology and Immunology, with the approval of the Colleges of Agriculture, of Arts and Sciences and of Medicine, request that the majors in biochemistry and in microbiology be available for the Bachelor of Science in Agriculture degree. These majors are currently available for the Bachelor of Science degree. Adding the B.S in Agriculture as a degree available for these majors will provide new opportunities for graduates seeking careers involving applied problems in agriculture, food and environmental sciences. A productive intellectual synergism between basic and applied biology already exists in these University departments through the collaborative research efforts of faculty in the three colleges. Currently nearly one-third of the courses offered in biochemistry and microbiology are taught by faculty who have appointments in the College of Agriculture. Adding the B.S. in Agriculture option will provide opportunities for undergraduates in these majors to expand research experiences through access to College of Agriculture laboratories, as well as provide access to financial aid and student services available through the college. The proposal was approved by the Undergraduate Council on October 22, 1991.
- B. Name of the major in rehabilitation for the B.S. in Education: The Department of Special Education and Rehabilitation, with the approval of the College of Education, requests that the name of the major in rehabilitation for the Bachelor of Science in Education degree be changed to special education and rehabilitation. The proposed name better describes the academic program which requires core courses that address both special education and rehabilitation. Additionally, the proposed name is consistent with the name of the graduate majors of the department which were renamed in 1989 as special education and rehabilitation to reflect the earlier consolidation of the special education and rehabilitation units into a single academic division. Finally, the proposed name is consistent with national trends as is seen at the federal level in the name of the Office of Special Education and Rehabilitative Services of the U.S. Department of Education. The proposal was approved by the Undergraduate Council on October 8, 1991.

I. NOTICE (for information)

FINAL ACTION OF THE BOARD OF REGENTS, OCTOBER 18, 1991

Approved the deletion of the major in energy engineering for the Bachelor of Science in Energy Engineering degree.

- III. CORRECTIONS (for information)** See appropriate department, committee, faculty or college.

IV. COURSE & CATALOG CHANGES (for information)

ART (ART/ARE/ARH)

Art (ART)

445. Delete semester offering "I." Change description to read "Mural and photo installation methods using a combined media methodology. 2R, 2S. Fee. P, 341, acceptance of portfolio. May be convened with 545." Eff. I 92-93.
447. Change prerequisites to read "P, 12 units of upper division studio art courses." Eff. II 91-92.
- 497a. Add prerequisites "P, 12 units of studio or art history." Eff. Pre-session 1992.
- 497b. Add prerequisites "P, 12 units of studio or art history." Eff. Pre-session 1992.
545. Delete semester offering "I." Eff. I 92-93.
547. Change prerequisites to read "P, 12 units of upper division studio art courses." Eff. II 91-92.
- 597a. Add prerequisites "P, 12 units of studio or art history." Eff. Pre-session 1992.
- 597b. Add prerequisites "P, 12 units of studio or art history." Eff. Pre-session 1992.

ENGLISH (ENGL)

486. + (1) Add crosslisting "(Identical with Reli. 486)." Eff. II 91-92.
(2) Delete crosslisting "(Identical with Reli. 486)." Eff. Pre-session 1992.
- 596n. Add "[Rpt./2]." Eff. I 92-93.

FRENCH & ITALIAN (FRE/ITA)

Italian (ITA)

Revision to the 1991-93 General Catalog:

Page 173, in the first column, last paragraph:

"The major: ~~30~~32 units (in addition to 101 and 102), including 305a-305b and/or ~~405a-405b~~, and 400a-400b, and ~~6~~12 additional units of literature courses in the 400 series. No fewer than ~~22~~24 units must be upper-division course work." Eff. I 92-93.

Page 173, in the second column, first paragraph:

"The minor: 20 units (in addition to 101 and 102), including 305a-305b or ~~405a-405b~~ (for students who require additional fluency) and 400a-400b." Eff. I 92-93.

- 406a-406b. Change title to "The Novel." Change prerequisites to read "P, 202 or consult department before enrolling." Add statement "Alternates with two semesters of 405 (a/b/c/d/e/f)." Eff. I 92-93.

LINGUISTICS (LING)

425. + Correction to CB1402: The following listing should have been included under "425": "Course number changed from "430" to "425." Add crosslisting (Identical with Anth. 425)." Change prerequisites to read "P, one course in linguistics, preferably Ling. 101 or Anth. 276." Eff. I 91-92. [Title: Language Variation]
525. + Correction to CB1402: The following listing should have been included under: "525": "Course number changed from "530" to "525." Add crosslisting "(Identical with Anth. 525)." Eff. I 91-92. [Title: Language Variation]

MANAGEMENT INFORMATION SYSTEMS (MIS)

- 473a-473b. Course expansion from "473a-473b" to "473a-473b/573a-573b." Add "May be convened with 573a-573b." Eff. II 91-92.
474. Course expansion from "474" to "474/574." Add "May be convened with 574." Eff. II 91-92.
475. Course expansion from "475" to "475/575." Add "May be convened with 575." Eff. I 92-93.
476. Course expansion from "476" to "476/576." Add "May be convened with 576." Eff. I 92-93.
477. Course expansion from "477" to "477/577." Add "May be convened with 577." Eff. I 92-93.
478. Course expansion from "478" to "478/578." Add "May be convened with 578." Eff. I 92-93.
479. Course expansion from "479" to "479/579." Add "May be convened with 579." Eff. II 91-92.
- 573a-573b. Course expansion from "473a-473b" to "473a-473b/573a-573b." Add: "Production and Operations Management (3-3) For a description of course topics, see 473a-473b. Graduate-level requirements include an additional term paper or program. May be convened with 473a-473b." Eff. II 91-92.
574. Course expansion from "474" to "474/574." Add: "Current Topics in Operations Management (3) II For a description of course topics, see 474. Graduate-level requirements include an additional term paper or program. May be convened with 474." Eff. II 91-92.
575. (1) Change course number from "575" to "583." [Title: Stochastic Models in Management Science] Eff. II 91-92.
(2) Course expansion from "475" to "475/575." Add: "Productivity Improvement (3) I For a description of course topics, see 475. Graduate-level requirements include an additional term paper or program. May be convened with 475." Eff. I 92-93.

576. Course expansion from "476" to "476/576." Add: Management of Service Operations (3) I For a description of course topics, see 476. Graduate-level requirements include an additional term paper or program. May be convened with 476." Eff. I 92-93.
577. (1) Change course number from "577" to "584." [Title: Discrete Mathematical Programming] Eff. II 91-92.
(2) Course expansion from "477" to "477/577." Add: Materials and Logistics Management (3) I For a description of course topics, see 477. Graduate-level requirements include an additional term paper or program. May be convened with 477." Eff. I 92-93.
578. (1) Change course number from "578" to "588." [Title: Systems Design for Management] Eff. I 92-93.
(2) Course expansion from "478" to "478/578." Add: "Project Management (3) I For a description of course topics, see 478. Graduate-level requirements include an additional term paper or program. May be convened with 478." Eff. I 92-93.
579. (1) Change course number from "579" to "589." [Title: Mathematical Programming Software Design and Construction] Eff. II 91-92.
(2) Course expansion from "479" to "479/579." Add: "Computer Models for Operations Management (3) II For a description of course topics, see 479. Graduate-level requirements include an additional term paper or program. May be convened with 479." Eff. II 91-92.
583. Course number changed from "575" to "583." [Title: Stochastic Models in Management Science] Eff. II 91-92.
584. Course number changed from "577" to "584." [Title: Discrete Mathematical Programming] Eff. II 91-92.
588. Course number changed from "578" to "588." [Title: Systems Design for Management] Eff. I 92-93.
589. Course number changed from "579" to "589." [Title: Mathematical Programming Software Design and Construction] Eff. II 91-92.

MATHEMATICS (MATH)

464. + Change semester offering to "I II." Eff. II 91-92.
564. + Change semester offering to "I II." Eff. II 91-92.

PHARMACY PRACTICE (PHPR)

- 803a. Delete "[Rpt./10 units]." Eff. Summer I 1992.
- 803b. Delete "[Rpt./10 units]." Eff. Summer I 1992.
- 803c. Delete "[Rpt./10 units]." Eff. Summer I 1992.

- 803d. Delete "[Rpt./10 units]." Eff. Summer I 1992.
- 803e. Delete "[Rpt./10 units]." Eff. Summer I 1992.
- 810a. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 810b. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 810c. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 810d. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 810e. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 810f. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 810g. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 810h. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 810i. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815a. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815b. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815c. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815d. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815e. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815f. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815g. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815h. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815i. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815j. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815k. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.
- 815l. Change units from "(3-10)" to "(5)." Add "[Rpt./10 units]." Eff. Summer I 1992.

RELIGIOUS STUDIES (RELI)

- 372a-372b.- Correction to the 1991-93 General Catalog: the crosslisting should read "(Identical with Ju.S. 372a-372b)." [Note: The listings under the home dept. (Judaic Studies) and its other crosslisted departments (Hist. and N.E.S.) are correct.]
- 486.- (1) Add: "Themes in American Literature (3) II (Identical with Engl. 486)." Eff. II 91-92.
 (2) Delete listing. Eff. Pre-session 1992.

STATISTICS (STAT)

451. Course number changed from "461" to "451." Change title to "Introduction to Statistical Methods." Change prerequisites to read "P, Math. 123 or 125b and knowledge of elementary probability theory." Eff. Summer 1992.
461. Change course number from "461" to "451." [For additional changes see, "451."] Eff. Summer 1992.
- 464.- Change semester offering to "I II." Eff. II 91-92.
- 564.- Change semester offering to "I II." Eff. II 91-92.

SYSTEMS & INDUSTRIAL ENGINEERING (SIE)

545. Course number changed from "644" to "545." Course revised. New listing should read "Nonlinear Programming (3) II Unconstrained and constrained optimization problems from a numerical standpoint. Topics include variable metric methods, optimality conditions, quadratic programming, penalty and barrier function methods, interior point methods, successive quadratic programming methods. P, 340." Eff. II 91-92.
644. Change course number from "644" to "545." [For new listing, see, "545."] Eff. II 91-92.

- + The home department of a course with crosslisting(s).
 - A crosslisted department (not the home department).

UNIVERSITY OF ARIZONA
INTERCOLLEGIATE WRITING COMMITTEE

The Intercollegiate Writing Committee was established in 1984 to promote excellence in writing by students in all colleges of the University of Arizona. The IWC works in cooperation with the University Composition Board and the Composition Program (both housed in the Department of English) in fulfilling its functions. The functions of the Intercollegiate Writing Committee include the following:

- a. Freshman Composition Program. The IWC shall monitor and evaluate the effectiveness of the Freshman Composition Program and the Freshman Placement Examination.
- b. Upper Division Writing Proficiency Examination (UDWPE). The IWC shall monitor and evaluate the UDWPE and the related writing courses designed to provide remedial assistance to students failing the UDWPE. The IWC shall encourage, support, and assist each college as necessary in formalizing the procedures to be followed when a student fails the UDWPE. The IWC shall insure that students are adequately informed in regard to faculty expectations of student performance on the UDWPE.
- c. Writing Emphasis Courses. The IWC shall review and monitor the writing standards specific to each college within the University. The IWC shall encourage, support, and assist each college as necessary in developing and improving writing emphasis courses.
- d. Outreach. The IWC shall encourage, support, and assist the development of outreach programs designed to upgrade secondary school writing programs.
- e. Annual Report. The IWC shall report annually to the Faculty Senate on: (1) the Freshman Composition Program and the Freshman Placement Examination, (2) the Upper Division Writing Proficiency Examination, including relevant demographics, (3) Writing Emphasis courses, and (4) other matters related to writing proficiency at the University of Arizona. A draft of this report shall be submitted to the Instruction and Curriculum Policy Committee for feed-back prior to submission of the final report to the Faculty Senate.

The Intercollegiate Writing Committee shall be composed as follows:

- a. A representative from each undergraduate college recommended by the Committee on Committees, two members of the Undergraduate Council recommended by the Undergraduate Council, and one student recommended by the Associated Students of the University of Arizona. Members shall be selected by the Provost.
- b. The Director of Freshman Composition and the Senior Coordinator of the University Composition Board shall serve *ex officio*.

At their first meeting each May, the IWC members shall elect one member to chair the committee during the subsequent year. Members shall serve three-year terms on a rotating basis.