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Faculty Senate Monthly Packet November 1986

Portland State University Faculty Senate

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portland state university

MEMORANDUM

October 21, 1986

To: Senators and Ex-officio Members of the Senate
From: Ulrich H. Hardt, Secretary to the Faculty *U.H.H.*

The Faculty Senate will hold its regular meeting on November 3, 1986, at 3:00 p.m. in 150 Cramer Hall.

AGENDA

- A. Roll
- *B. Approval of the Minutes of the October 6, 1986, Meeting
- C. Announcements and Communications from the Floor
- D. Question Period
 - 1. Questions for Administrators
 - 2. Questions from the Floor for the Chair
- E. Reports from the Officers of Administration and Committees
 - 1. Registration Up-date -- Tufts
- F. Unfinished Business -- None
- G. New Business
 - *1. Curriculum Committee and Graduate Council Course Summary, 1987-88 -- Sestak & Savery
 - *2. Summary, 1987-88 Changes in Programs
 - *3. New Courses and Course Changes, 1987-88
- H. Adjournment
 - Caucus of CLAS and GSSW Senators to elect members to the Committee on Committees.

*The following documents are included with this mailing:

- B Minutes of the October 6, 1986, Senate Meeting.
- G₁ Curriculum Committee and Graduate Council Course Summary, 1987-88.**
- G₂ Summary, 1987-88 Changes in Programs.**
- G₃ New Courses and Course Changes, 1987-88.**

**Includes for Senators and Ex-officio Members only

The Constitution requires that elected members of the Faculty Senate must provide the Secretary to the Faculty with the name of an alternate before the first meeting of the year.

My Name _____

My Alternate for 1986-87 is _____ Dept. _____

Please return this slip to Ulrich Hardt, OAA

PORTLAND STATE UNIVERSITY

Minutes: Faculty Senate Meeting, November 3, 1986
Presiding Officer: Rod Diman
Secretary: Ulrich H. Hardt

Members Present: Alberty, Badi'i, Beeson, A. Bennett, M. Bennett, Bjork, Bowlden, Burns, Cumpston, Cogan, Cox, J. Daily, M. L. Daily, Diman, Dressler, Edner, Edwards-Allen, Ellis, Erdman, Gerber, Goslin, Grimes, Hammond, Horowitz, A. Johnson, Kimmel, Kosokoff, Lall, Lutes, Marty, Matschek, Morris, L. Nussbaum, R. Nussbaum, Rodich, Ronacher, Sampson, Scheans, Scruggs, Solie, Sommerfeldt, Soohoo, Stuart, Swanson, Thompson, Weikel, West, Westover.

Alternates Present: Herrington for Boyle, Holloway for Limbaugh, Tracy for Lockwood, Heyden for Neklason, Hein for Tayler, Tang for Visse, Lovell for Walker.

Members Absent: Finley, Heflin, R. Johnson, Kimbrell, Rose, Ingersoll-Dayton, Steward.

Ex-officio Members Present: Erzurumlu, Hardt, Miller, Morris, Schendel, Sheridan, Toulan, Williams.

APPROVAL OF THE MINUTES

The minutes of the October 6, 1986, meeting were approved as circulated.

ANNOUNCEMENTS

1. DIMAN reported that President Sicuro had met with the combined Senate Steering Committee and the Advisory Council and had discussed some of the committee structure at the University. In particular the President expressed concern about the lack of coordination among the Budget Committee, the Educational Policies Committee, and the Campus Planning Committee. He proposed the formation of a University Planning Council and requested the Steering Committee and Advisory Council to draft a plan for it. Those two groups have met several times and have prepared a proposal which now is on the President's desk. The proposal is for the University Planning Council to have one faculty member from each professional school, the Library and the "All Other" category, five faculty from CLAS, two deans, two Vice Presidents, one classified, one undergraduate and one graduate student. (Whichever units the deans represent will not be represented by a faculty). Letters of appointment may be sent next.

Faculty members for this first University Planning Council were generally nominated from the current members of the three committees; it was also proposed that the Senate Steering Committee and Advisory

Council be represented. Further, it was the strong recommendation that the Budget Committee, EPC (both constitutional committees) and the Campus Planning Committee (an administrative committee) be continued for the time being, perhaps functioning as "sub-committees" under the University Planning Council.

HAMMOND was concerned that the Budget Committee not be eliminated because of its important role. SOMMERFELDT asked if the Senate would be consulted if committees were to be dropped. DIMAN assured the Senate that that would be so, since it would involve a change in the Faculty Constitution.

2. TANG reported that the IFS had met at EOSC in October and had continued discussion of such items as use of part-time and fixed-term faculty, and early retirement plans at the various OSSHE institutions. The IFS also passed the following resolution and sent it to the Chancellor:

The Interinstitutional Faculty Senate recommends that the Oregon State Board of Higher Education come to a timely decision concerning the quarter/semester issue; that such decision, whatever it be, place the matter at rest for the foreseeable future; and that if the decision is to change to the semester system that the change take effect in the academic year 1989-90.

REPORTS FROM OFFICERS OF THE ADMINISTRATION AND COMMITTEES

RICKS reported the following preliminary statistics for fourth week enrollment figures:

	Fall 1986	Fall 1985	% Change
Headcount	15,544	14,673	+5.9%
FTE	9,902	9,440	+4.9%
SCH	148,528	141,606	+4.9%

If past relationships hold, RICKS estimated that we could expect official fourth week counts of

Headcount	15,640
FTE	9,926
SCH	148,900

NEW BUSINESS

SESTAK, speaking for the Curriculum committee, and SAVERY, speaking for the Graduate Council, reported that their committees had voted approval of the new, deleted, and revised courses and programs which were being presented to the Senate today.

A. JOHNSON moved "that the Senate consider one program at a time." The motion was seconded and passed.

DIMAN called for a vote on the new, changed, and deleted courses in Engineering and Applied Science, and they were approved.

The new, changed, and deleted courses and the program change submitted from Civil Engineering were approved.

DIMAN asked for a vote on the program changes submitted for Computer Engineering. BJORK observed that the addition of SP 100 and WR 227 to the BA/BS degree is that program would mean a big increase of students in CLAS. THOMPSON said that the English Department had not been consulted regarding the number of students involved, nor had any plans been made how that many more students could be handled by the department. She asked how the proposal could come before the Senate without consultation with the department. WR 227 is a specialized course in teaching technical writing, and it requires special faculty; at the moment the department has only one qualified person who can teach three sections per year with a maximum of 90 students. Currently those sections in fact fill up with mostly business administration students. There is no more room for others. HOLLOWAY asked if EAS funds could be transferred to the English Department.

ERZURUMLU said that WR 227 has been recommended to EAS majors since 1980, and he estimated that many students had been taking the course along with business administration students. Now EAS was simply formalizing the recommendation into a requirement for admitted students, effective Fall 1988. He estimated that there would be 150-175 students yearly. He said that curricular issues should be looked at for curriculum only. Finances are handled by the administration and will be dealt with; the burden obviously is on EAS and will be handled at the administrative level. Perhaps only students who are about to graduate will be able to take the course.

HOLLOWAY thought that the entire issue should be cleared through the English Department Head and made a motion to refer the issue back to the Curriculum Committee for clarification, to be returned to the Senate in December. The motion was seconded by WEIKEL, and by common consent HAMMOND included the SP 100 requirement in the motion. The motion was passed.

The new and changed courses and program changes for Electrical Engineering were approved.

The new courses in Mechanical Engineering were approved.

The new course in Health and the course change in Physical Education were approved.

All new courses and course changes in the School of Fine and Performing Arts (Music and Theater Arts) were approved.

DIMAN asked for a vote on the proposed new courses in Social Work. A. JOHNSON observed that no pre-requisite were listed for any of the four

graduate courses. He also objected to the last sentence of the course description of SW 546, "The course is intended for all students, regardless of sexual orientation," asking if that were not true of all PSU courses.

SWANSON moved "that the Social Work courses be referred back to the Graduate Council for determination of pre-requisites and be brought back to the Senate in December." The motion was passed.

The Department of Administration of Justice proposed changes in its BA/BS degree, along with new, changed, and deleted courses. TRACY explained that he had met with each one of the nine departments in CLAS which are involved in this program and had their support. Budgetary help was promised by UPA if needed. SWANSON and TANG, however, moved that action on the proposals be delayed until December so that a more detailed description of the program changes could be supplied to Senators. The motion was passed.

DIMAN called for a vote on the five new PA courses being proposed. KOSOKOFF noted that no pre-requisites were listed for these graduate courses. ELLIS responded that for all courses in public administration PA 511, Public Administration (a survey of the field), was a pre-requisite. HAMMOND asked if students had done graduate work before, and TANG wanted to know how students could take PA 583, Advanced Budgeting Concepts and Techniques, without a prior course in budgeting. ELLIS pointed out that most of the students held full-time positions in public administration work, had in-depth preparation for the courses they take, and he noted that PA 583 specifies that "Students should have practical experience or a previous course in budgeting" -- a definite pre-requisite.

The Senate voted to approve the Public Administration courses.

The Senate approved the minor changes being proposed in the Undergraduate Certificate in Urban Studies.

New, changed, and deleted courses in Urban Studies and Planning were also approved. KOSOKOFF inquired about the P/NP for USP 509, and Sheridan pointed out that the Bulletin on page 55 specified that "P" for a graduate course meant "B" or better.

ADJOURNMENT

The meeting was adjourned at 16:00.

CURRICULUM COMMITTEE

GRADUATE COUNCIL

SCHOOL OF ENGINEERING AND APPLIED SCIENCE

Engineering and Applied Science

New Courses: EAS 102, 406

New Course: EAS 506

Course Changes: EAS 101, 115

Course Deletions: EAS 116

Civil Engineering

Program changes as submitted

New Courses: CE 406, 427, 467

New Courses: CE 427G, 467G, 506, 539,

Course Changes: CE 434, 435

Course Change: CE 529

Course Deletions: CE 412, 413

Computer Engineering

Program changes as submitted

Computer Science

Program changes as submitted

New Courses: CS 309, 406

New Course: CS 506

Course Changes: CS 105, 120, 121, 130,
230, 320

Electrical Engineering

Program changes as submitted

New Course: EE 406

New Course: EE 506

Course Change: EE 371

Mechanical Engineering

New Course: ME 406

New Course: ME 506

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

Health

New Course: HE 410

New Course: HE 410G

Physical Education

Course Change: PE 472

Course Change: PE 472G

SCHOOL OF FINE AND PERFORMING ARTS

Music

New Course: Mus 427

New Course: Mus 427G

Course Changes: Mus 111, 112, 113, 111S,
112S, 113S, 204, 205,
206, 304, 305, 306

Theater Arts

New Courses: TA 131, 135, 144, 344

Course Changes: TA 211, 212, 213, 211L,
212L, 213L, 313, 314

Course Changes: TA 313, 314 (change c
number and delete gra

CURRICULUM COMMITTEE

GRADUATE COUNCIL

SCHOOL OF SOCIAL WORK

New courses: SW 535, 546, 547, 548

SCHOOL OF URBAN AND PUBLIC AFFAIRS

Administration of Justice

Program changes as submitted

New Courses: AJ 100, 210, 220, 490

New Course: AJ 505

Course Changes: AJ 260, 302, 317, 318,
334, 409, 444, 446,
447, 454, 462

Course Deletions: AJ 111, 112, 113,
360, 445, 461, 463

Public Administration

New Courses: PA 536, 547, 548, 583, 587

Urban Studies and Planning

Undergraduate Certificate changes as
submitted

New Courses: USP 509, 511, 512, 513, 521,
522, 523, 535, 553, 565, 573

Course Change: USP 202

Course Changes: USP 421G, 527, 536, 561, 566

Course Deletions: USP 312, 446

Course Deletions: USP 446G, 584, 585

SUMMARY 1987-88 PROPOSED CHANGES IN EXISTING PROGRAMS

COLLEGE OF LIBERAL ARTS AND SCIENCES

1. The College proposes to institute minors in the Departments of Anthropology, Biology, Black Studies, Chemistry, Economics, English, English (Professional Writing), Foreign Languages and Literatures, Geography, Geology, History, International Studies, Mathematical Sciences, Philosophy, Physics, Sociology, Speech Communication, Women's Studies, and Linguistics. Each department has scrupulously designed its program in order that it complement and enhance any other major program. These minors require 26-31 student credit hours of courses as determined by the academic departments.
2. The Department of Foreign Languages and Literatures proposes changes in its BA in One Foreign Language and its BA in Two Foreign Languages to give greater breadth and depth to both major programs. Both single- and double-language majors will now have an introductory literature course and a preparatory linguistics course; single language majors will also be exposed to readings, lectures and research in English--at least 3 hours of this will be outside of their major language--which will significantly expand their knowledge of literary criticism and history as well as their understanding of literary studies in general.
3. The Department also proposes to change its MA in German to an MA in Foreign Literature and Language providing graduate work in French, German, Japanese, Russian, and Spanish. The candidate for this degree will take specified course work in a primary and secondary language (at present Japanese and Russian may only serve as a secondary language). The degree will require a minimum of 60 credits with 27 graduate credits in the primary language (including History of the Language - 3 and Fundamentals of Literary Research - 3) and 21 graduate credits of literature; 21 credits in the secondary language (including Phonetics 3, Advanced Comp and Con at grad level - 9) and 9 graduate credits specified by the department and 12 graduate credits in Linguistics and Methods chosen from a specified list. Final comprehensive oral and written exams in the literature of the primary language and oral and written proficiency exams in the secondary language are required. The candidate will also submit 2 revised research papers to a graduate committee for review and discussion.
4. The Department of Speech Communication proposes changes in the Speech and Hearing Sciences requirement for the General Speech major from "One course in Speech and Hearing Sciences (212, 493)" to "Complete one course in Speech and Hearing Sciences from the following list: (Sp 212 and 212L, 370 and 370L, 371, 380, 487, 493, 497)." The change is based on the departments decision that the specific courses listed are all appropriate to exposing General Speech Communication students to the Speech and Hearing Science discipline and thus fulfilling the major requirement.

SCHOOL OF BUSINESS ADMINISTRATION

1. The School proposes changes in the BA/BS in Business Administration for all options by adding Sp 220 - Public Speaking and Ec 428 - Managerial Economics as requirements. This does not change the total credits required for the degree.

2. The Department of Finance and Law proposes changes to its BA/BS in Business Administration - Finance Option - by changing the requirements from 15 upper division credits to 23-25 upper division credits. One credit hour has been added to each of the currently required courses and two additional courses are specified within the option. These are Finance Topics and Cases and Foreign Financial Operations. These courses are currently offered by the Department of Finance and Law. One 400-level finance elective has been deleted.
3. The Department of Marketing proposes to add an Advertising Management Option to its BA/BS degree. The proposed option will provide the student with a recognized course of study in Advertising Management. The program will involve the packaging of existing marketing courses into a well-defined course of study. The required courses (Mktg 340, 415, 420, 421, 422, 464, and 6 upper division marketing courses chosen from Mktg 375, 409, 416, 452, 463, 467, 478, 497) have been taught in the department for many years. No new resources are needed.

SCHOOL OF ENGINEERING AND APPLIED SCIENCE

1. The Department of Civil Engineering proposes addition of Sp 100 - 5 cr. and Wr 227 - 3 cr. to its BA/BS degree program in CE. Two credit hours of CE electives will be dropped and arts and letters or social science electives will be reduced by 5 cr. for an increase of 1 cr. hour in the program. The Department of Computer Science proposes addition of Sp 100 and Wr 227 to its BA/BS degree in CS. Hours and course changes proposed for the CS curriculum and the reduction of free electives will result in no change in the total program credits. The Department of Electrical Engineering proposes changes to its BA/BS in Electrical Engineering and in Computer Engineering. The Department proposes addition of Sp 100, Wr 227, and a speech elective to both programs. To prevent an increase in total hours, CS 130 will be dropped from the EE program and CS 230 and 3 professional electives will be dropped from the CpE program. ME 322 will be dropped from both programs. Computer Science curriculum changes also will necessitate minor changes in each program.

These courses will be added to insure that each program includes adequate communication skills both written and oral and on the recommendation of the Accreditation Board for Engineering and Technology and the Computing Sciences Accreditation Board.

SCHOOL OF URBAN AND PUBLIC AFFAIRS

1. The Department of Administration of Justice proposes changes to its BA/BS in Administration of Justice. The proposed changes are the result of an in-depth review of the complete undergraduate curriculum. The collective effect of the changes considerably strengthens the academic integrity of the program by: clearly linking all required AJ courses by numbering them according to their progressively advanced levels of knowledge and skill; requiring realistic prerequisites to insure that students have acquired the necessary skills and knowledge to fully benefit from courses before enrolling in them; creating a previously missing academic link between the freshman and junior levels within the program by providing new lower division courses; creating a clear beginning and ending to the program by providing an orientation course for entering freshman and an integrative seminar course for graduating seniors; broadening the liberal arts and sciences foundation of the required major curriculum; and removing several courses from the curriculum whose content can best be covered by either other existing courses or through consolidation into a single course.

2. The Department of Urban Studies and Planning proposes minor changes to its Undergraduate Certificate in Urban Studies. USP 425 is added to the list of required courses to replace USP 312 which was deleted and the description of areas of concentration is moved to the general description of the program rather than being included in the specific curricular requirements.
3. The Department also proposes minor changes to its Master of Urban Planning (MUP) degree by adding two subfields; substituting USP 560 for USP 561; and adding the option of preparing and defending a research paper.
4. The Department proposes changes to the Master of Urban Studies (MUS) degree which 1) make a thesis option available; 2) define a field in social and policy research; and 3) reduce the total credits of the program from 72 to 53 which brings the MUS in line with research oriented master's degrees in the related social sciences at PSU. When the MUS degree was established in 1974, it included Urban Planning as a major subfield. Because of professional recognition for the Urban Planning area, the degree was established with 72 credits. The Master of Urban Planning is now a separate, fully accredited degree. In consequence, the historical reason for a 72 credit MUS degree no longer holds. The proposal for a 53 credit degree eliminates a general electives category and the requirement for several courses from a "field distribution" list. Some of the credits made available by eliminating general requirements will be used to expand the depth of work in the field area.
5. The Department of Urban Studies and Planning proposes to change its PhD in Urban Studies: Regional Science to PhD in Regional Science. There are no major changes in curriculum. The name change allows future curriculum development to proceed in direct reference to developments in Regional Science without the constraint of maintaining conformance to the broader multidisciplinary goals of the Urban Studies requirements.
6. The Department also proposes to change its PhD in Urban Studies: Public Policy and Administration to PhD in Public Administration and Policy. Some modifications have been made to utilize the resources of the Department of Public Administration and bring the curriculum of the degree in line with the national norm. The current title and urban studies/policy analysis focus does not adequately attract public administration students, who are the major source of potential doctoral students. The current degree requires too many urban studies courses and not enough substantive administration and policy courses. The proposed changes drop the traditional urban studies core area and social science application courses, replacing them with an integrated set of foundation courses supported by several social science courses. The addition of expanded substantive field areas provide a much more productive balance between existing resources in public administration and policy analysis.

NEW COURSES AND COURSE CHANGES

PORTLAND STATE UNIVERSITY

1987-88

COLLEGE OF LIBERAL ARTS & SCIENCES

BIOLOGY

New Courses

- Bi 260. Biological Oceanography. (3)
Introduction to biological processes in the open ocean, focusing on the resources and utilization of the ocean.
- Bi 337. Introduction to Cell Biology. (4)
An introduction to structural, physiological, biochemical and molecular biology of cells. Three hour lectures; one hour recitation; and three lab hours. Prerequisites: One year of introductory biology and chemistry.
- Bi 355. Understanding the Environment. (4)
Study of scientific and ecological principles that govern human interactions with the physical and biological systems of the earth, with emphasis on the role of energy. Ecosystem properties, human population dynamics, resource issues, roles of technological and ethical decisions. Prerequisite: One year of college biology.
- Bi 411. Neurophysiology. (3) grad
Lectures covering the mechanism of action potential, the information transmission between neurons and the organization of the nervous system. Prerequisite: Bi 335.
- Bi 416. Marine Mammals. (4) grad
Study of the classification, comparative features, origins, evolution, physiology, ecology, behavior and status of the orders of marine mammals. Three lectures; one 3-hour laboratory. Prerequisite: Bi 387.
- Bi 445. Algal Physiology. (4) grad
Physiological basis for phytoplankton ecology. Examination of photosynthesis, nutrient transport, regulation and cell division processes. Three lectures and one 3-hour lab. Laboratory will be split between routine assays and individual research projects. Prerequisites: Bi 335 and 357.
- Bi 525. Recombinant DNA Techniques. (4)
Basic techniques of genetic analysis at the molecular level, including insertion mutagenesis, restriction enzyme mapping, ligation and cloning of specific genetic regions and characterization of recombinant clones. Two lectures and two 3-hour laboratories per week. Prerequisite: Consent of instructor.

Changes in Old Courses

Bi 301, 302, 303. Human Anatomy and Physiology. (4, 4, 4)
Fundamental principles of microanatomy, macroanatomy, genetics, embryology, and physiology, as applied to the human organism will be presented and correlated to provide a comprehensive understanding of man as a functionally integrated biological entity. This course is designed for non-biology majors who would ordinarily not be exposed to the subject matter as presented by separate highly specialized courses. This course will not satisfy requirements for a biology major. Three lectures; one 3-hour laboratory period. A previous course in Chemistry is recommended. Prerequisite: two years of high school biology or one year of biological science.

(Change in prerequisites.)

Bi 421. Virology. (4) grad
A study of general virology that includes the classification, structure, genetics, molecular biology of replication, cell interactions, and host response of representative groups of bacterial, plant, and animal viruses, and the medical aspects of important human viruses.

Prerequisites: Bi 420 and either Bi 335 or Ch 350.

(Formerly Bi 416. Viruses. Change in number, title, description, credit hours from (3) to (4), prerequisites and lecture hours.)

Bi 471. Plant Ecology. (4) grad
A study of the interrelationships between plants and their environment with emphasis upon individual adaptation and community dynamics. Three lectures; one 3-hour laboratory period. Prerequisite: Bi 357 or equivalent.

(Change in prerequisites.)

BLACK STUDIES

New Courses

BSt 231. Introduction to African Politics. (3)
This course will provide students with an overview of African Politics. It is intended to give a general understanding of African political dynamics.

BSt 431. African Political Thought. (3) grad
An in-depth examination of the political theories and thoughts of African political leaders in Africa and the Diaspora between pre-colonial times and the present. Prerequisite: BSt 231. BSt 305 and/or BSt 306 recommended.

BSt 432. Urban Afro-American Politics. (3) grad
A course designed to investigate the transformation of Afro-Americans from rural peasants to urban proletariat from the Revolutionary period to the present. Emphasis will be on the development of the Afro-American urban society. Prerequisites: BSt 204 or 233 or 261.

BSt 433. Urban African Politics. (3) grad
An examination of the dynamics of political change in independent Africa. The class will seek an understanding of the various processes of change taking place within the context of African urban society. Topics include education, transportation, health care, migrations, housing, ethnic and class conflict, corruption, roles of the media, and public safety. Prerequisite: BSt 205 or 231 or 306.

Changes in Old Course

- BSt 430. Afro-American Political Thought. (3) grad
An in-depth examination of the political theories and thought of Afro-American leaders in the United States between 1776 to the present. An evaluation of the impact that those ideas had on American Political Thought. Prerequisite: BSt 203 or 204 or 233 or 261.
(Formerly Afro-American Political Thought, 1850-1920. Change in title and description.)

Old Course Dropped

- BSt 431. Afro-American Political Thought, 1920-Present. (3) grad

CHEMISTRY

Changes in Old Courses

- Ch 160, 161. Physical Science. (3, 3)
An integrated survey of fundamental principles of physics and chemistry. The course is designed for students majoring in fields other than chemistry, physics or geology who wish a broad view of the principles of several physical sciences. No prior experience in the physical sciences needed. Because of the integrated nature of the subject material, it is necessary that students take the courses in sequence. Elementary algebra is used in these courses.
- Ch 162, 163. Physical Science Laboratory. (1, 1)
Optional laboratory work to accompany Ch 160, 161. Enrollment in the laboratory requires concurrent or prior enrollment in the appropriate term of the lecture. One two-hour laboratory.
(Formerly Sc 104, 105, 106. Change in number, description, credit hours from (3, 3, 3) to (3, 3) for the lectures and (1, 1) for the laboratories, lecture hours, separation of lecture from laboratory, addition of Ch 162, 163 numbers for the labs, and change of rubric from Sc to Ch.)
- Ch 250. Nutrition. (3)
Nutritive value of foods from the standpoint of newer scientific investigations; nutritional requirements for normal human beings; selection of an optimal diet for health; present-day problems in nutrition; recent trends in American dietary habits.
(Formerly Sc 214. Change in number, description and rubric from Sc to Ch.)
- Ch 355. Biochemistry of Women. (3)
Structure, synthesis, mode of action, and effects of female sex hormones. Relationships between developmental, mature functional, and menopausal phases of woman's life and hormonal balance. Effect of female hormones upon glucose utilization, fat metabolism, bone metabolism, energy balance, and mental function. Biochemistry or pregnancy and lactation. Prerequisite: one year of college chemistry or biology.
(Formerly Sc 355. Change in description and rubric from Sc to Ch.)
- #Ch 440, 441, 442. Physical Chemistry. (3, 3, 3) grad
The study of thermodynamics, phase and chemical equilibria, solutions, electrochemistry, reaction rates and mechanisms, quantum mechanics, spectroscopy, and statistical mechanics. Three lectures. Ch 440 requires concurrent enrollment in Ch 443. Prerequisites: Ch 224, Mth 203 and Ph 203.
(Change in prerequisites and addition of concurrent enrollment phrase.)

- #** Ch 443. Computational Chemistry. (2) grad
The study of programming methods, statistical analysis of experimental data, and the study of numerical methods of common importance in physical chemistry. Concurrent enrollment in Ch 440 required.
(Change in description, addition of **#** footnote and change in concurrent enrollment phrase.)

ECONOMICS

New Courses

- Ec 524. Research Workshop. (3)
Course is intended for graduate students in the Applied Economics Option. A seminar/workshop consisting of a series of individual presentations on background research. The objective of the course is to provide support and guidance for the student in selecting an applied research topic and in developing a workable study design for the student's independent research project. Prerequisite: Ec 523.
- Ec 525. Research Project. (3)
This course is intended for graduate students in the Applied Economics Option. The activity includes the following: (a) independent reading on researchable subjects; (b) individual development of a research project, i.e., selection of a subject and plan of study; and (c) periodic reporting of individual research progress to the group. Group discussion and mutual participation are encouraged as contributions to individual projects. Prerequisite: Ec 524.

Old Courses Changed

- Ec 450. Comparative Economic Systems. (3) grad
(Formerly Ec 350. Change in number and add graduate option.)
- Ec 523. Research Methods Seminar. (3)
(Formerly Ec 512. Change in number.)
- Ec 572. Regional Economic Structure. (3)
This course focuses on methods of analyzing why regions differ economically, how they interrelate and why and how they react to changes in economic policies and conditions. Part of the course will be devoted to a study of models of regional structure and growth, such as economic base or input-output, and the strengths and weaknesses of each in modelling the regional economy. The remainder of the course will be concerned with the development of models for use in regional forecasting and/or evaluation of policy changes on regional development.
(Formerly Urban Economic Structure. Change in title and description.)

ENGLISH

Change in Old Course

- Eng 204, 205, 206. Survey of English Literature. (3, 3, 3)
(Formerly Eng 101, 102, 103. Change in number.)

FOREIGN LANGUAGES & LITERATURES

New Courses

- FL/Ling 493. Language Proficiency Testing and Teaching. (3) grad
Application of proficiency standards in testing and teaching, especially at the novice and intermediate levels. Introduction to ILR/ACTFL/ETS guidelines and compatible testing methods. Discussion of pragmatic issues; testing technique and test validity, use of teaching materials, logistics. Prerequisite: Completion of the second-year of foreign language study (with grade of B or better) or consent of instructor.
- FL/Ling 498. Methods of Teaching Foreign Languages. (3) grad
The study and analysis of the various linguistic theories as applied to the learning and teaching of foreign languages. Special emphasis on discourse and context analysis.
- FL/Ling 598. Methods of Teaching Foreign Languages. (3)
The study and analysis of the various linguistic theories as applied to the learning and teaching of foreign languages. Special emphasis on discourse and context analysis.

German

- GL 360. Introduction to Literary Studies. (2)
An introduction to the study of German literature. Lectures and discussion on German prosody, genres, fundamentals of literary analysis and criticism. To be taken concurrently with, or prior to Survey of German Literature. Conducted in German. Prerequisite: two years of college level German or equivalent competence.
- GL 420. German Literature in Translation. (3) grad
Study of selections from the masterpieces of German poetry, fiction and drama in translation; content varies. Readings, lectures and discussion in English. Prerequisite: upper division or graduate standing.
Maximum: six credits.

Japanese

- Jpn/Ling 318. Japanese Pronunciation and Phonetics. (3)
A study of the system of Japanese sounds, rhythms, and intonations, with special attention given to individual problems in pronunciation.
Prerequisite: two years of college Japanese or consent of instructor.
- Jpn 407. Seminar. Credit to be arranged. grad
- Jpn 420, 421, 422. Advanced Japanese Literature in Translation. (3, 3, 3)
grad
Study of selections from the major works of Japanese literature; content varies. Readings, lectures and discussion in English. Prerequisites: upper division or graduate standing.

French

- Fr 360. Introduction to Literary Studies. (2)
An introduction to the study of French literature. Lectures and discussion on French prosody, genres, fundamentals of literary analysis and criticism. To be taken concurrently with, or prior to Survey of French Literature. Conducted in French. Prerequisite: two years of college level French or equivalent competence.

- Fr 420. French Literature in Translation. (3) grad
Study of selections from the masterpieces of French poetry, fiction and drama in translation; content varies. Readings, lectures and discussion in English. Prerequisite: upper division or graduate standing.
Maximum: six credits.
- Fr 511. French Poetry. (3)
Study of French poetry. Analysis of form and content.
- Fr 512. French Drama. (3)
Critical study of representative works of French Drama.
- Fr 513. French Prose Fiction. (3)
Study of representative works of French fiction according to genre, period, theme or author.
- Fr 540. Fundamentals of Literary Research. (3)
A theoretical and practical introduction to the resources and techniques essential to advanced work in French. Study of bibliographic materials, text analysis and preparation of research papers. Must be taken in first year of graduate study.

Spanish

- Span 360. Introduction to Literary Studies. (2)
An introduction to the study of Spanish literature. Lectures and discussion on Spanish prosody, genres, fundamentals of literary analysis and criticism. To be taken concurrently with, or prior to Survey of Spanish Literature. Conducted in Spanish. Prerequisite: two years of college level Spanish or equivalent competence.
- Span 420. Spanish Literature in Translation. (3) grad
Study of selections from the masterpieces of Spanish poetry, fiction and drama in translation; content varies. Readings, lectures and discussion in English. Prerequisite: upper division or graduate standing.
Maximum: six credits.
- Span 511. Spanish Poetry. (3)
Study of Spanish lyric poetry. Analysis of form and content.
- Span 512. Spanish Drama. (3)
Critical study of representative works of Spanish Drama.
- Span 513. Spanish Prose Fiction. (3)
Study of representative works of Spanish fiction according to genre, period, theme or author.
- Span 540. Fundamentals of Literary Research. (3)
A theoretical and practical introduction to the resources and techniques essential to advanced work in Spanish language, literature and area studies. Investigation of bibliographic materials, primary texts, secondary literature, and major forms of literary criticism. Must be taken in first year of graduate study.

Russian

- SL 360. Introduction to Literary Studies. (2)
An introduction to the study of Russian literature. Lectures and discussion on Russian prosody, genres, fundamentals of literary analysis and criticism. To be taken concurrently with, or prior to Survey of Russian Literature. Conducted in Russian. Prerequisite: two years of college level Russian or equivalent competence.

Changes in Old Courses

German

GL 424, 425, 426. Advanced German Composition and Conversation. (3, 3, 3)
grad

(Addition of graduate option.)

GL/Ling 482. History of the German Language. (3) grad

(Formerly GL/Ling 482, 483. Separation of sequence to retain
GL/Ling 482.)

GL 540. Fundamentals of Literary Research. (3)

Theoretical and practical introduction to the resources and techniques
essential to advanced work in German language, literature, and area
studies. Investigation of bibliographical materials, primary texts,
secondary literature, and major forms of literary criticism. Must be
taken in first year of graduate study.

(Formerly Introduction to Germanistik. Change in title and
description.)

Chinese

Chn 424, 425, 426. Advanced Chinese Composition and Conversation. (3, 3, 3)
grad

(Formerly Advanced Chinese Reading, Translation, and Conversation.
Change in title and add graduate option.)

Japanese

Jpn 410. Selected Topics. Credit to be arranged. grad
(Addition of graduate option.)

Jpn 424, 425, 426. Advanced Japanese Composition and Conversation. (3, 3, 3)
grad

(Formerly Advanced Japanese Reading, Translation, and Conversation.
Change in title and add graduate option.)

French

Fr 467, 468, 469. Advanced French Composition and Conversation. (3, 3, 3)
grad

Discussions and writing of original themes with emphasis on correct gram-
mar usage and speaking abilities. Conducted in French. Prerequisites:
Fr 314, 315, 316 or consent of instructor.

(Change of prerequisites and add graduate option.)

Fr/Ling 484. History of the French Language. (3) grad

(Formerly Fr 484, 485. Separation of sequence to retain Fr 484 and
to provide for alternative Ling rubric.)

Fr/Ling 494, 495. Romance Linguistics. (3, 3) grad

(Formerly RL 494, 495. Change of rubric to Fr and to provide for
alternative Ling rubric.)

Spanish

Span 461, 462, 463. Advanced Spanish Composition and Conversation. (3, 3, 3)
grad

Required of majors in Spanish. Conducted in Spanish. Prerequisites:
Span 347, 348, 349 or consent of instructor.

(Change in prerequisites, credit hours from (2-3, 2-3, 2-3) to
(3, 3, 3) and add graduate option.)

Span/Ling 486. History of the Spanish Language. (3) grad
(Formerly Span 486, 487. Separation of sequence to retain Span 486
and to provide for alternative Ling rubric.)

Hungarian

UAL 399H. Special Studies. Credit to be arranged.
(Formerly UAL 399. Change in number.)

Russian

SL 311, 312, 313. Survey of Russian Literature. (3, 3, 3)
(Formerly Readings in Russian Literature. Change in title.)

SL 401R. Research. Credit to be arranged
(Formerly SL 401. Change in number.)

SL 405R. Reading and Conference. Credit to be arranged. grad
(Formerly SL 405. Change in number and add graduate option.)

SL 407R. Seminar. Credit to be arranged. grad
(Formerly SL 407. Change in number and add graduate option.)

SL 408R. Workshop. Credit to be arranged.
(Formerly SL 408. Change in number.)

SL 409R. Practicum. Credit to be arranged.
(Formerly SL 409. Change in number.)

SL 410R. Selected Topics. Credit to be arranged. grad
(Formerly SL 410. Change in number and add graduate option.)

SL 411, 412, 413. Russian Literature of the 19th Century. (3, 3, 3) grad
(Addition of graduate option.)

SL 420, 421, 422. Great Russian Literature in Translation. (3, 3, 3) grad
(Addition of graduate option.)

SL 424, 425, 426. Modern Russian Literature. (3, 3, 3) grad
(Addition of graduate option.)

SL 461, 462, 463. Advanced Russian Composition and Conversation. (3, 3, 3)
grad
Grammar review; discussion in Russian of selected topics; writing of
themes on literary and other subjects. Prerequisites: SL 314, 315, 316
or consent of instructor.
(Change in prerequisites and add graduate option.)

SL 494, 495. Slavic Linguistics. (3, 3) grad
(Addition of graduate option.)

SL 497. Applied Russian Linguistics. (3) grad
(Addition of graduate option.)

Old Courses Dropped

GL/Ling 483. History of the German Language. (3) grad

Fr 485. History of the French Language. (3) grad

Span 487. History of the Spanish Language. (3) grad

GEOGRAPHY

New Courses

Geog 315. The Tourism Industry. (3)

The nature of tourism as an economic activity and its impact on regional economies and the physical environment. Surveys patterns of development, profiles of consumers, competition with other activities, and elements of good planning.

Geog 349. East Asia. (3)

Introduction to the physical and cultural geography of East Asia. Topics to be discussed include the geography of natural resources, population, agriculture, transportation, and urban development. The course is designed to give the student a good grounding in the characteristics of East Asia as a region, the reasons for the human occupation patterns found there, and prospects for future economic and cultural development.

Geog 403. Thesis. Credit to be arranged.

Changes in Old Courses

Geog 314. Geographic Background of American History. (3)

(Formerly Geog 414. Change in number and drop graduate option.)

Geog 316. Principles of Urban Geography. (3)

(Formerly Geog 434. Change in number and drop graduate option.)

Geog 324. Natural Hazards. (3)

This course examines the human consequences of such natural hazards as floods, earthquakes, windstorms, droughts, and volcanic eruptions. Topics to be studied include the ability of people to correctly perceive the risk of such hazards, the range of possible damage reducing adjustments, and the effects of varying public policies in mitigating the impacts of such hazards.

(Formerly Geog 424. Change in number, prerequisites and drop graduate option.)

Geog 325. Resource Management. (3)

(Formerly Geog 425. Change in number and drop graduate option.)

Geog 340. The Continent of Africa. (3)

(Formerly Geog 432. Change in number and drop graduate option.)

Geog 345. Geography of Eastern Europe. (3)

(Formerly Geography of Central Europe. Change in title.)

Geog 347. Geography of the Soviet Union. (3)

An examination of the USSR's terrain, climates, peoples, collective farming, and industrial development, with emphasis upon the regional distinctiveness of European Russia, Siberia, Muslim Central Asia, and the Caucasus.

(Formerly Geog 427. Change in number, description and drop graduate option.)

Geog 351. Geography of North America. (3)

(Formerly Geog 429. Change in number and drop graduate option.)

Geog 352. Geography of the Pacific Northwest. (3)

(Formerly Geog 430. Change in number and drop graduate option.)

- Geog 361. Geography of Middle America. (3)
(Formerly Geog 461. Change in number and drop graduate option.)
- Geog 362. Geography of Spanish South America. (3)
(Formerly Geog 462. Change in number and drop graduate option.)
- Geog 365. Pacific Islands. (3)
(Formerly Geog 433. Change in number and drop graduate option.)
- Geog 411. Human Geography. (3) grad
Analysis of the earth's cultural landscapes. Major themes are: human migration, domestication of plants and animals; geographical aspects of languages, religions, diseases; house types and patterns of settlement. Prerequisite: Geog 205 or 206.
(Change in prerequisites.)
- Geog 412. Political Geography. (3) grad
An analysis of the political organization of territory. Studies the geographic essence of states, nationalism, boundary conflicts, colonialism, and more local problems of metropolitan political fragmentation. Prerequisite: Geog 205 or 206 or 313.
(Change in prerequisites.)
- Geog 426. Western Europe. (3) grad
The geographic backgrounds of modern Europe west of the Iron Curtain; analysis of the geographic individualities of the major countries; current regional economic and political adjustments to changing world conditions. Prerequisite: Geog 205.
(Formerly Geography of Europe. Change in title and prerequisites.)
- Geog 436. Contemporary World Cities. (3) grad
Comparative geography of cities; review of the forms of particular major cities of the world as responses to their function as financial, political, manufacturing, commercial, or transportation capitals. Regional urban character; Oriental, European, Anglo- and Latin-American cities; indigenous and post-colonial cities of underdeveloped areas. Spatial problems of metropolitan life. Prerequisite: Geog 316.
(Change in prerequisites.)
- Geog 486. Map Production. (3) grad
The process involved in producing and printing maps. Design considerations, and technical processes including photographic preparation of copy, computer mapping, separation drawings, and color separation. Prerequisite: Geog 485 or consent of instructor.
(Change in prerequisites.)
- Geog 488. Resource Development Problems. (3) grad
An examination of selected problems in natural resources development. Broad consideration of environmental and socio-economic factors in selecting wise strategies for the use of natural resources. The role of resources in regional and national economic development. Prerequisite: Geog 325.
(Change in prerequisites.)
- Geog 490. Geography of Transportation. (3) grad
Types and major avenues of transportation in the modern world; nature, operation and problems of sea, rail and highway systems. Prerequisite: Geog 312.
(Change in prerequisites.)

Old Courses Dropped

Geog 435. Historical Geography of the City. (3) grad

Geog 452. China. (3) grad

Geog 456. Japan. (3) grad

GEOLOGY

New Course

G 300. Field Trips. (1)

Participation in field trip to enhance the understanding of materials and processes taught in corresponding geology course. Lecture, field trip and completion of field workbook and/or report required. Prerequisites: Previous or concurrent enrollment in the corresponding upper division geology course.

Changes in Old Courses

G 111. Volcanoes. (3)

(Change credit hours from (2) to (3) and lecture hours.)

G 393. Field Methods. (4)

Principles of geologic mapping, use of geological surveying instruments and aerial photographs, preparation of reports and maps. Two lectures; two 3-hour laboratory periods. Prerequisite: G 392.

(Change laboratory hours.)

**G 418. The Geology of Ground Water. (3) grad

Study of the physical and chemical properties of underground water; the physical properties of aquifers and their control and effect on the contained waters; water movement and the conservation and utilization of existing ground water bodies as well as development of new water bodies and rejuvenation of depleted and starved aquifers. Prerequisites: Mth 203, Ch 206, Ch 217 and Ph 203.

(Change in prerequisites.)

**G 423. Computer Application in Geology. (4) grad

Application of digital computers to problems in geology. Topics covered are analysis of data collected along a traverse, over a map area, and multivariate data. Applications to stratigraphic sections, chart recordings, sample locations, mapping, trend surfaces, and clustering. Two lectures and one 4-hour laboratory. Prerequisites: CS 208 or equivalent, G 393, and Mth 458 or equivalent.

(Formerly Computer Application in Earth Sciences. Change in title, credit hours from (3) to (4), prerequisites, lecture hours and laboratory hours.)

G 526 Advanced Sedimentary Petrology. (4)

Study of carbonate and related rocks in terms of components, texture and structure. Includes study of the petrogenetic significance of such rocks as related to physical, chemical and biological parameters of environments of deposition and diagenesis. Three lectures, one 3-hour laboratory. Prerequisite: G 392. Radiation safety certification required.

(Change in description, credit hours from (3) to (4), prerequisites, lecture hours and laboratory hours.)

MATHEMATICS

New Courses

- Mth 490. Computing in Mathematics for Middle School Teachers. (3) grad
A study of the role of computing in mathematics with emphasis on the use of modern technology. Not approved for major credit. Available for graduate credit toward a Master's Degree in Education only.
Prerequisite: Mth 101 and Mth 112, or equivalent. Previous computer experience.
- Mth 491. Experimental Probability and Statistics for Middle School Teachers. (3) grad
A study of probability and statistics through laboratory experiments, simulations, and applications. Not approved for major credit. Available for graduate credit toward a Master's Degree in Education only.
Prerequisite: Mth 101 and Mth 112, or equivalent.
- Mth 492. Problem Solving for Middle School Teachers. (3) grad
Examination and application of problem-solving techniques and strategies. Problems are drawn from various areas of mathematics. Not approved for major credit. Available for graduate credit toward a Master's Degree in Education only. Prerequisite: Mth 101 and Mth 112, or equivalent.
- Mth 493. Geometry for Middle School Teachers. (3) grad
Selected topics from informal geometry, both two and three-dimensional. Not approved for major credit. Available for graduate credit toward a Master's Degree in Education only. Prerequisite: Mth 101 and Mth 112, or equivalent.
- Mth 494. Arithmetic and Algebraic Structures for Middle School Teachers. (3) grad
The study of the real number system and its subsystems will lead to the introduction of more general algebraic structures and their applications. Not approved for major credit. Available for graduate credit toward a Master's Degree in Education only. Prerequisite: Mth 101 and Mth 112, or equivalent.
- Mth 496. Concepts of Calculus for Middle School Teachers. (3) grad
An introduction to the limit concept and its role in defining the derivative, the integral and infinite series. Applications to middle school mathematics. Not approved for major credit. Available for graduate credit toward a Master's Degree in Education only.
Prerequisite: Mth 101 and Mth 112, or equivalent.
- Mth 497. Historical Topics in Mathematics for Middle School Teachers. (3) grad
A survey of the historical development of topics in mathematics from ancient to modern times, with special emphasis on topics in arithmetic, algebra and informal geometry. Not approved for major credit. Available for graduate credit toward a Master's Degree in Education only.
Prerequisites: Mth 493 and Mth 494.

PHILOSOPHY

New Courses

Phl 501. Research. Credit to be arranged.

Phl 503. Thesis. Credit to be arranged.

Phl 504. Cooperative Education. Credit to be arranged.

Phl 505. Reading and Conference. Credit to be arranged.

Phl 507. Seminar. Credit to be arranged.

Phl 510. Selected Topics. Credit to be arranged.

Phl 520. Topics in Epistemology. (3)

More advanced, intensive and specialized treatment of one or more of those topics covered in Phl 424, 425, 426. May be repeated with approval of student's advisory committee.

Phl 530. Topics in Applied Ethics. (3)

This course will investigate ethical problems that arise in the course of professional life. Topics may typically include: the purpose of the profession; the nature of the professional-client relationship; the professional's obligations to his/her clients and to society; and various special problems that arise in the context of the specific profession are considered. May be repeated with approval of the student's advisory committee.

Changes in Old Courses

Phl 304. Predicate Logic. (3)

(Formerly Phl 205. Elementary Logic: Predicate Logic. Change in number and title.)

Phl 424, 425, 426. Epistemology I, II, III. (3, 3, 3) grad

Philosophical examination of some of the main issues in the theory of knowledge (such as our knowledge of the external world, of the minds of others, of scientific laws, of logical and mathematical truths, etc.). Consideration will be given to positions and arguments of important historical figures (e.g., Locke, Hume, Kant, et. al.), as well as to positions and arguments of contemporary philosophers, with a view towards enabling the students to reach reasoned, though tentative, positions on these issues. Prerequisites: 9 credits of philosophy.

(Formerly Phl 424. Epistemology. Expansion of one term course into three term sequence.)

Phl 474. Philosophy of Logic. (3) grad

Topics: validity, sentence-proposition, connectives, quantifiers, truth, paradoxes, logical necessity and possibility. Optional topics: metalogic, the construction of formal systems of logic and formal proofs of certain of their properties, e.g., consistency and completeness.

Prerequisite: Phl 304 or equivalent.

(Formerly 342, 343. Logic and Inquiry. Separation of sequence to change Phl 343 number, title, description, prerequisites and add graduate option.)

Old Course Dropped

Phl 342. Logic and Inquiry. (3)

POLITICAL SCIENCE

Changes in Old Course

PS 443. Problems in Contemporary World Politics. (3-5) grad

The third course in the world politics sequence focuses on substantive global problems and issue areas such as war, conflict resolution, nationalism, arms races, and global scarcities. The historical roots of the problems as well as their contemporary manifestations are examined using both substantive and theoretical materials introduced in the preceding courses. Prerequisite: PS 241 or consent of instructor.

(Change in prerequisites.)

SOCIOLOGY

New Courses

Soc 482. East European Societies. (3) grad

The central focus of this course is on the analysis of equality, inequality and social classes in contemporary East European societies. Two subsidiary themes are also explored: The cycles of dominance of ideology and pluralism and relations among the nationality groups.

Prerequisites: Soc 204 and 205.

Soc 483. Sociology of the Middle East. (3) grad

This course will examine the sociological development of the modern Middle East. It will especially focus on causes and consequences of rapid social change, including revolutions, coups, and insurgent movements. It will examine the role of Islam and tribalism in these movements. Prerequisites: Soc 204 and 205.

SPEECH COMMUNICATION

New Courses

**Sp 423. Communication and Conflict. (3) grad

An examination of the role that speech communication plays in conflict: in particular, the forces that generate conflict and the approaches for handling conflict productively in interpersonal communication and in the working group. Upper division or graduate status required.

**Sp 447. Communication and Consciousness. (3) grad

Exploration of conceptual commonality between communication theory and studies of human consciousness at the physiological, psychological, and philosophical levels of analysis. Practical applications to communication of neurosensory interaction, voluntary control of internal states, and aspects of constructivist theory. Upper division or graduate status required.

Sp 485. Programmed Clinical Management. (2) grad

A course designed to present current terminology and basic techniques of modifying behavior with specific application to speech, language and hearing clinical management. Prerequisite: concurrent enrollment in Sp 483 or consent of instructor.

Changes in Old Courses

- **Sp 477 Audiological Rehabilitation Clinic. (2-3) grad
(Formerly Clinical Hearing Therapy and Diagnostic Procedures.
Change in title and credit hours from (1-3) to (2-3).)
- Sp 493. Survey of Speech, Language and Hearing Disorders. (3) grad
A survey of the nature and causes of organic and functional disorders of speech to be found among children and adolescents. The course is designed for anyone interested in an overview of the methods of prevention, location, identification, referral, and correction of speech deviations, including general speech, regular education, and special education teachers and students. This course is not appropriate for declared majors in Speech-Language Pathology and Audiology.
Prerequisite: upper division or graduate standing.
(Change in course description.)
- Sp 497. Survey of Audiology for Special Educators. (3) grad
(Addition of graduate option.)

WOMEN'S STUDIES

Changes in Old Courses

- WS 409. Practicum. (Credit to be arranged)
Intended for individuals with some background in women's studies, the practicum is similar to field work or an internship, and provides an opportunity to apply knowledge and gain skills by working with organizations and groups that serve women or are involved in women's issues. Guidelines are flexible in order to meet individual needs.
Maximum: 6 credits per term; 9 credits total. Pass/No Pass only.
(Change in credit hours from (3, 3) to (Credit to be arranged), description and addition of Pass/No Pass only statement.)

LINGUISTICS

New Courses

- Ling 585A. Semiotics. (3)
Study of modern critical theories based on linguistics, especially structuralism. Prerequisites: 3 hours of linguistics.
- Ling 585E. Semiotics. (3)
Study of modern critical theories based on linguistics, especially structuralism. Prerequisites: 3 hours of linguistics.
- Ling 585F. Semiotics. (3)
Study of modern critical theories based on linguistics, especially structuralism. Prerequisites: 3 hours of linguistics.

SCHOOL OF BUSINESS ADMINISTRATION

ACCOUNTING

New Course

Actg 399. Special Studies. (Credit to be arranged)

BUSINESS EDUCATION

Changes in Old Courses

BEd 414. Organization and Administration of Business Education Programs. (3)
Study of the role of the business education department in the secondary school; the business education department head; and the resources available to organize, implement, and administer the programs. Topics include: Cluster programs, vocational teacher certification, guidelines for standards visits, cooperative work-experience programs, student organizations, vocational education laws, curriculum designs, department head's role. Prerequisite: upper division standing.
(Formerly Methods and Materials: Typewriting and Office Machines. Change in title, description, and prerequisites.)

BEd 536. Seminar: Research in Business Education. (3)
Analysis of completed research in business education; evaluation of design sampling, instrumentation, data analysis, and reporting; implications of research for classroom teaching with implementation strategies.
Prerequisite: Ed 511.
(Formerly Research Methods in Business Education. Change in title, description, and prerequisite.)

BEd 537. Evaluation in Business Education. (3)
Purposes of evaluation: diagnosis, program, course; systems and tests appropriate for business courses; sources of prepared tests; principles of test construction; interpretation of test scores; analysis of test effectiveness; improvement of teacher-made tests.
(Formerly Tests and Measurements in Business Education. Change in title and description.)

Old Courses Dropped

BEd 416. Office Management. (3)

BEd 417. Information Processing Management. (3)

FINANCE AND LAW

New Course

FinL 399. Special Studies. (Credit to be arranged)

Changes in Old Courses

- FinL 359. Finance Management. (3)
A study of the role of the finance system and its functioning. Analytical methods leading to more efficient decision processes involving the use of money and debt in the firm. Emphasis on efficient cash flow management and capital budgeting techniques, as well as short- and long-term instruments of finance. Prerequisite: FinL 358. Restricted to admitted BA students only. Credit not given to students with FinL 369.
(Addition of credit restriction phrase.)
- FinL 369. Introduction to Financial Management. (5)
Application of financial analysis techniques to evaluating a firm and measuring performance. Analytical methods leading to more efficient processes involving the use of capital in a firm with emphasis on efficient cash flow management. Additional emphasis on capital budgeting techniques, dividend policy, and capital structure decisions. Prerequisites: admission to the School of Business Administration and Ec 428. Credit not given to students with FinL 359.
(Formerly FinL 358. Financial Analysis for Decision Making. Change in title, number, description, prerequisites and credits from (3) to (5).)
- FinL 419. Intermediate Financial Management. (4)
Second level course in financial management to provide more depth in the study of asset pricing, capital budgeting, capital structure, dividend policy, working capital management, growth through mergers, and leasing. Emphasis on the development of problem solving capabilities. Prerequisite: FinL 359 or FinL 369.
(Formerly FinL 459. Capital Budgeting and Investment Decisions. Change in title, number, description, prerequisites and credits from (3) to (4).)
- FinL 422. Financial Markets and Institutions. (4)
Study of the operations, structure, and functions of financial markets and institutions and the important role they play in the financial decision-making process of a business firm. Emphasis on financial markets and the aggregate economy, theories of interest rate determination, analytical foundations of valuation of real and financial markets, role and management of financial institutions, and the regulations of financial markets and institutions. Prerequisite: FinL 359 or FinL 369, FinL 419.
(Change in description, prerequisites, and credits from (3) to (4).)
- FinL 425. Bank Management. (4)
Policies, practices, problems and policies of commercial banking as well as other financial institutions from a financial management perspective. Banking regulation, organizational structure, financial analysis of commercial banks, asset and liability management, and other contemporary issues affecting commercial banks. Prerequisite: FinL 359 or FinL 369.
(Change in description, prerequisites, and credits from (3) to (4).)
- FinL 439. Real Estate Appraisal. (3) grad
Fundamentals of appraising real estate. Land utilization. Analysis of real estate values by approaches followed by governmental and private appraisers. Prerequisites: FinL 333 and FinL 359 or FinL 369.
(Change in prerequisites.)

- FinL 440. Finance Topics and Cases. (4)
Case studies of the most typical financial problems in business including working capital management, capital budgeting, and financing issues. Special topics covered will be at the discretion of the instructor.
Prerequisite: FinL 359 or FinL 369, FinL 419.
(Formerly Case Problems. Change in title, description, prerequisites, and credits from (3) to (4).)
- FinL 443. Investment Principles. (4)
The analytical study of the principles of investment in stocks, bonds, and other security instruments. Includes the analysis of investment risks, investor's attitudes towards risk, and the choice of appropriate portfolios which incorporate this information. Also included is the study of information and market efficiency, term structure and the determination of market interest rates, and security valuation. Prerequisite: FinL 359 or FinL 369, FinL 419.
(Change in description, prerequisites, and credits from (3) to (4).)
- FinL 444. Security Analysis. (4) grad
Theory and techniques of analysis of individual corporate securities. Systematic study of characteristics and potential of stocks and bonds to facilitate investment decisions. Prerequisites: FinL 359 or FinL 369 and FinL 443.
(Change in prerequisites and credits from (3) to (4).)
- FinL 456. Foreign Financial Operations. (4)
Survey of international financial principles and practices underlying the investment and financing decisions of multinational firms. Trade and capital flows, foreign exchange, markets and mechanics, trade financing, international capital markets institutions and financial instruments, exchange risk and exposure management, capital budgeting and capital structure analyses of multinational finance. Prerequisite: FinL 359 or FinL 369.
(Change in description, prerequisites, credits from (3) to (4) and deletion of graduate option.)
- FinL 457. Real Estate Finance and Investment. (5) grad
Application of the finance and economic principles to the analysis of real estate finance and investments. Emphasis on the development of problem solving capabilities through the use of computer application programs. Special attention is given to risk analysis, alternative mortgage instruments, hedging techniques, and the tax effects of real estate investment. Prerequisite: FinL 359 or FinL 369, and FinL 419.
(Formerly FinL 437. Real Estate Finance. Change in number, title, description, prerequisites, and credits from (3) to (5).)

Old Course Dropped

- FinL 315. Personal Finance for Teachers. (3)
- FinL 447. Real Estate Investments. (3) grad

MANAGEMENT

New Courses

- ISQA 399. Special Studies. (Credit to be arranged)
- ISQA 401. Research. (Credit to be arranged)
- ISQA 405. Reading and Conference. (Credit to be arranged)
Prerequisite: prior consent of instructor.
- ISQA 407. Seminar. (Credit to be arranged)
Student selected problems in business operation and business management to be studied by the individual and discussed in group meeting under direction of academic staff. Prerequisite: upper division standing, consent of instructor.
- ISQA 410. Selected Topics. (Credit to be arranged)
- Mgmt 399. Special Studies. (Credit to be arranged)

Changes in Old Courses

- ISQA 415. Office Systems. (3)
A course in office systems and ergonomics which includes the management of the word, voice and image processing systems and the effect of technological changes on the office environment, equipment, work flow, and materials. Analysis of information processing requirements including various hardware configurations, sophistication of equipment needs, and control techniques for monitoring system efficiency. Prerequisites: upper division standing or consent of instructor.
(Formerly BEd 415. Change in prefix and description.)
- ISQA 418. Records and Information Management. (3)
(Formerly BEd 418. Records Management. Change in prefix and title.)

MARKETING

New Course

- Mktg 399. Special Studies. (Credit to be arranged)

Change in Old Course

- Mktg 422. Advertising Campaigns. (3) grad
Emphasis is on the development of the total advertising campaign from a marketing perspective. Integrates the elements of the advertising process such as setting objectives, selection of target markets, budget development, media selection, message creation, production and placement into a plan for action. Prerequisites: Mktg 340, Mktg 415, Mktg 420 and Mktg 421.
(Change in prerequisites.)

SCHOOL OF ENGINEERING AND APPLIED SCIENCE

New Courses

EAS 102. Computational Methods in Engineering II. (4)
Engineering applications with the C programming language. Students will write a substantial computer program that entails engineering analysis and design and will utilize all the commonly used features of the language. Common support utilities will also be used. Prerequisite: EAS 101, CS 100, or equivalent.

EAS 406/506. Special Projects. (Credit to be arranged)

Changes in Old Courses

EAS 101. Computational Methods in Engineering I. (4)
Nature, scope and role of, and current trends in, engineering. Introduction to computer methods. The Pascal programming language will be used to solve engineering problems. Students will write a substantial computer program during the term involving engineering analysis and design. Prerequisite: Mth 102 taken concurrently.

(Formerly EAS 113. Engineering Concepts and Problems. Change in number, title, description, lecture hours; and credit hours from (3) to (4).)

EAS 115. Engineering Graphics. (3)
The graphic language applied to engineering. Projection systems. Multiview and pictorial representation. Introduction to computer graphics.
(Formerly Engineering Graphics I. Change in title and description.)

Old Course Dropped

EAS 116. Engineering Graphics II. (3)

CIVIL ENGINEERING

New Courses

CE 406/506. Special Projects. (Credit to be arranged)

CE 427. Vibration Analysis in Structural Engineering. (3) grad
Fundamentals of vibration theory; applications in structural engineering. Free, forced, and transient vibration of one and two degrees of freedom systems including damping, normal modes, coupling, and normal coordinates. Elements of vibrations in continuous systems. Prerequisite: EAS 212 and Mth 321.

CE 467. Hydrologic and Hydraulic Design. (3) grad
Application of hydrologic and hydraulic principles to analysis and design. Spillway design, flood determination, hydraulic design of spillways and appurtenances, flood hydraulics, culvert design. Application of computer programs HEC-1 and HEC-2 to solve hydrologic and hydraulic problems. Prerequisite: CE 362 and senior standing, or consent of instructor.

CE 539. Advanced Steel Design. (3)
Analysis and design of metal structures including connections, plate girders, composite steel-concrete construction, design loads, structural systems, and bracing. Prerequisite: CE 333.

CE 546. Numerical Methods in Geotechnical Engineering. (3)
Application of finite difference and finite element methods to the solution of soil-structure problems, stability of soil masses and foundation installation. Use of commercial computer programs in working applied problems. Prerequisite: CE 444 or consent of instructor.

Changes in Old Courses

CE 434. Principles of Reinforced Concrete. (4)
Principles of ultimate strength analysis; design of short columns, simple and continuous beams; one way slabs; working stress theory; serviceability and detailing requirements with reference to current codes. Three lectures; one 2-hour design or laboratory period. Prerequisite: CE 326, or consent of instructor.

(Change in description.)

CE 435. Design of Reinforced Concrete Structures. (3)
Design of spandrel beams, footings, slab systems, long columns, walls and other components of reinforced concrete structures by ultimate strength with reference to current codes. Prerequisite: CE 434 or consent of instructor.

(Change in description.)

CE 529. Structural Dynamics. (3)
Determination of normal modes and frequencies for structural systems. Transient and steady state response. Derivation and solution of governing equations using matrix formulation. Analysis of linear response of structures to dynamic loadings. Stresses and deflections in structures. Prerequisite: CE 427 or consent of instructor.

(Change in description and prerequisite.)

Old Courses Dropped

CE 412. Control Surveys. (3)

CE 413. Electronic Surveys. (3)

COMPUTER SCIENCE

New Courses

CS 309. Introduction to C. (1)
Students in computer science are introduced to the syntax and programming techniques of the C language. The structured aspects of C are contrasted with those of Pascal, and low-level machine operations are compared with those typically available only in assembly languages. Prerequisites: CS 121 and CS 130.

CS 406/506. Special Projects. (Credit to be arranged)

Changes in Old Courses

CS 105. Computing Fundamentals. (3)
(Formerly CS 150. Change in number.)

CS 120. Introduction to Computer Science I. (4)
Introduction to fundamental concepts of computer science. The Pascal programming language will be used as a tool to solve problems and demonstrate these concepts. This course is primarily designed for CS majors. Three lecture hours; one 3-hour laboratory period. Prerequisite: Mth 101 or equivalent.
(Formerly CS 100. Change in number, laboratory hours, and credit hours from (3) to (4).)

CS 121. Introduction to Computer Science II. (4)
Introduction to systematic program design, use of a variety of data structures, recursion. Program correctness, verification, and testing. Students will write a substantial computer program during the term. Three lecture hours; one 3-hour laboratory period. Prerequisite: CS 120 or equivalent.
(Formerly CS 101. Change in number, laboratory hours, and credit hours from (3) to (4).)

CS 130. Introduction to Assembly Language Programming and Computer Organization I. (4)
Introduction to the organization of a digital computer. Number representations, instruction execution, assembly language programming, and the assembly process. Three lecture hours; one 3-hour laboratory period. Prerequisite: CS 121 or equivalent.
(Change in laboratory hours and credit hours from (3) to (4).)

CS 230. Introduction to Assembly Language Programming and Computer Organization II. (4)
This course is a continuation of topics introduced in CS 130 and includes topics in loaders and assemblers, macros, input/output programs and the processing of interrupts. Three lecture hours; one 3-hour laboratory period. Prerequisite: CS 130.
(Change in laboratory hours and credit hours from (3) to (4).)

CS 320. Data Structures. (4)
Basic concepts of data and its representation inside a computer. Topics include linear lists, linked lists, orthogonal lists, and tree structures. Three lecture hours; one three-hour laboratory period. Prerequisite: CS 121 or equivalent.
(Formerly CS 245. Change in number, laboratory hours, and credit hours from (3) to (4).)

ELECTRICAL ENGINEERING

New Course

EE 406/506. Special Projects. (Credit to be arranged)

Change in Old Course

- EE 371. Introduction to Computer Architecture. (4)
Introduction to the macro-level components of computers: ROM/RAM memory units, CPU/Arithmetic Units, micro/macro control of computer operations, von Neumann and Harvard machines. The interrupt system and global operational properties of computers. Prerequisite: EE 270.
(Change in prerequisite.)

MECHANICAL ENGINEERING

New Course

- ME 406/506. Special Projects. (Credit to be arranged)

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

New Course

- HE 410. Selected Topics. (Credit to be arranged) grad

Change in Old Course

- PE 472. Applied Kinesiology. (3) grad
Anatomical and mechanical bases of human movement. Prerequisites: Bi 301, 302, 303 and PE 395.
(Change in prerequisites.)

SCHOOL OF FINE AND PERFORMING ARTS

ART

New Courses

- */**Art 430, 431, 432. Women in the Visual Arts. (3, 3, 3) grad
The study of the art of women in various media (painting, sculpture, architecture, printmaking, photography, textiles, illuminated manuscripts, and mixed media.) A 3-quarter sequential class: Fall: 11th century (medieval) in Europe to the 18th century; Winter: 19th century early 20th century America and Europe; Spring: 20th century America and Europe. Open to non-majors. Prerequisites: Art 204, 205, 206.
- *+Art 486, 487, 488. Nineteenth Century Art. (3, 3, 3) grad
A survey of painting and sculpture in the 19th century. Fall: Neo-classicism and Romanticism; Winter: Realism and Impressionism; Spring: Post-impressionism. Open to non-majors. Prerequisites: Art 204, 205, 206.

MUSIC

New Course

- Mus 427. Opera Workshop. (1) grad
A workshop in preparing and performing operatic literature for advanced singers. Prerequisite: consent of instructor through audition.

Changes in Old Courses

Mus 111, 112, 113. Music Theory I. (3, 3, 3)

Courses which provide a thorough groundwork in the elements of music--melodic, harmonic, and rhythmic--with keyboard and written exercises and analysis based on the styles of Bach, Haydn, Mozart, Beethoven, and other 18th and 19th century composers. Concurrent registration in Mus 111S, 112S, 113S is required for music majors.

Mus 111S, 112S, 113S. Sight Singing/Ear Training. (1, 1, 1)

Studies to develop the ability to sing notation at sight and to recognize and notate aural patterns. Concurrent registration in Mus 111, 112, 113 is required for music majors.

(Change in description, credit hours from (1-3-4, 1-3-4, 1-3-4) to (3, 3, 3) and (1, 1, 1), and division of sequence.)

Mus 204, 205, 206. Music History I. (2, 2, 2)

Intensive, analytical study of the history of music during the 17th, 18th, and 19th centuries. Prerequisites: Mus 111, 112, 113 or equivalent.

(Change in prerequisites.)

Mus 304, 305, 306. Music History II. (2, 2, 2)

Intensive, analytical study of the history of music in the periods before 1600 and after 1900. Prerequisites: Mus 111, 112, 113 or equivalent.

(Change in prerequisites.)

THEATER ARTS

New Courses

TA 131. Understanding Movies. (3)

An introductory course in film appreciation with special emphasis on cinema as a dramatic art. Elements to be considered will include cinematography, performance, edited image, and sound. Selected films will be shown.

TA 135. Classic Movies. (3)

Study and analysis of representative films with special emphasis on the importance of directorial concept and the screenplay. Relationships between film and theater will be examined.

TA 144. Voice for the Actor I. (3)

An introductory course in basic principles and techniques of voice production specifically for stage performance including physiology, breath support and resonance, articulation and projection.

TA 344. Voice for the Actor II. (3)

An intermediate course in the principles of voice production for the stage, concepts and techniques for adapting the voice to various stage environments, and techniques necessary for analyzing stage speech problems and developing appropriate solutions. Prerequisite: TA 144.

Changes in Old Courses

- TA 211, 212, 213. Fundamentals of Technical Theater. (3, 3, 3)
The first quarter of this sequence is concerned with planning, building and rigging scenery. The second includes an introduction to properties work, special effects and scene painting. The third is devoted to the fundamental theories and practices of both stage lighting and sound. One three-hour laboratory period per week, for which laboratory credit is given, must be taken concurrently. All quarters involve 3 lectures and a 3-hour laboratory period per week, and participation in departmental productions. Need not be taken in sequence.
- TA 211L, 212L, 213L. Technical Theater Laboratory. (1, 1, 1)
(Change in description, separation of laboratory from lecture.)
- TA 313. Scene Design. (3)
(Formerly TA 411. Change in number and deletion of graduate option.)
- TA 314. Stage Lighting. (3)
(Formerly TA 412. Change in number and deletion of graduate option.)

SCHOOL OF SOCIAL WORK

New Courses

- SW 535. Ego Psychology in Social Work Practice. (3)
This course reviews some contributions of ego psychology including ego development, psychoanalytic theory, symptom development, defense mechanisms, and character development to understanding adaptive and maladaptive patterns. Implications for social work are reviewed. A range of ego psychological concepts is explored; object relations theory is emphasized.
- SW 546. Social Work with Sexual Minorities. (3)
This course is designed for social work students who want to acquire information on social work with lesbian and gay clients. The course sensitizes students to problems which lesbians and gay men face as a result of negative social norms and status. It provides academic and experiential content necessary for understanding gay and lesbian clients. It also provides an opportunity for developing helping skills for effective practice. The course is intended for all students, regardless of sexual orientation.
- SW 547. Occupational Social Work. (3)
A review of programs utilizing social workers in which the auspice is management or organized labor, and the work force or site is the target of service. Included as well are those planning and program development efforts in which businesses, industries, or trade unions involve themselves in community concerns associated with social welfare issues. Focus is also given to the characteristics of the work force, the social/economic problems of unemployment, and the psychological/sociological/cultural aspects of work on human behavior.

SW 548. Social Work with the Dying and their Families. (3)

This course will examine death at different stages of the life cycle. The event and its impact on the individual, the family, and the helper are explored. Ways of coping with the intense threat which loss poses to the individual and the survivors are identified as well as cultural and religious differences in how death is handled. Social work practice with the dying, the survivors, and other professional care-givers is emphasized.

SCHOOL OF URBAN AND PUBLIC AFFAIRS

ADMINISTRATION OF JUSTICE

New Courses

AJ 100. Introduction to Administration of Justice. (3)

An introduction to the administration of justice profession--including its historical development, entry requirements, and career opportunities--and to the academic community, including university and department degree requirements and procedures; designed to orient and socialize new students, either majoring or interested in administration of justice.

AJ 210. Juvenile Justice Process. (3)

A general overview of the various activities and decisions involved in the processing of young law violators, with some examination of the historical evolution of the juvenile court and of contemporary issues and trends.

AJ 220. Crime Literacy. (3)

A comprehensive survey of the historical trends and current picture of crime in America that examines: (1) methods used to collect crime data, (2) factual aspects of specific crimes, including definitions and analytical statistics, (3) characteristics of victims and arrestees, (4) public opinion, and (5) personal protection.

AJ 490. Senior Colloquium. (3)

An integration of important administration of justice concepts and knowledge for graduating majors, who will individually prepare a research paper on a selected problem and present findings to interested students and faculty. Prerequisite: completion of all other AJ major requirements and scheduled to graduate at end of quarter in which AJ 490 is taken.

AJ 505. Reading and Conference. (Credit to be arranged)

Changes in Old Courses

AJ 200. Criminal Justice Process. (3)

(Formerly AJ 260. Change in number.)

AJ 302. Police Dynamics. (3)

A critical examination of the various professional and community influences on police behavior, together with the social problems generally created by such forces, and potential remedial actions.

(Change in prerequisites.)

AJ 317. Correctional Practices. (3)

Analysis of the various treatment and rehabilitation practices attempted with various types of offenders in both an institutional setting and in the community; includes an examination and evaluation of behavior modification, psychiatric and psychological approaches, group treatment methods, reality therapy, as well as other lesser known approaches.

(Change in prerequisites.)

AJ 330. Crime Control Strategies. (3)

An analysis of crime and its relationship to the development of urban areas, incongruent patterns of criminal activities and police organization for "before the fact" policing; demographic and ecological factors in the incidence and distribution of crime and delinquency, and considerations of police planning for elimination of conditions conducive to crime.

Prerequisites: completion of all lower division major requirements and upper division status.

(Formerly AJ 334. Change in number and prerequisites.)

AJ 380. Criminal Justice Research. (3)

A critical examination of the usefulness and limitations of research related to criminal justice activities, procedures, and programs, with emphasis on the consumer's perspective. Prerequisites: completion of all lower division major requirements and AJ 330.

(Formerly AJ 318. Change in number, description and prerequisites.)

AJ 409. Senior Practicum. (Credit to be arranged)

An educationally directed placement in an agency involved in the delivery of administration of justice services, with supervision and evaluation provided by both agency and university staff. Students who are currently employed by such an agency must apply for placement outside their organization and professional field. A maximum of 15 credits for this course may be earned toward the administration of justice degree.

Pass/No Pass only. Prerequisites: completion of all lower division major requirements, AJ 330 and 380, and senior status.

(Formerly Practicum. Change in title and prerequisites.)

AJ 420. Criminal Law and Legal Reasoning. (3)

Study of the basic concepts related to criminal law, including: historical development, legal elements of crime and proof, defenses and mitigation, reasonable doubt, and presumptions of fact; with particular emphasis on the application of logical reasoning to make legal decisions. Prerequisites: completion of all lower division major requirements, AJ 330 and 380 and senior status.

(Formerly AJ 444. Change in number, description, and prerequisites.)

AJ 440. Constitutional Criminal Procedures. (3)

A critical examination of the legal controls on the administration of criminal justice, with special attention to current court decisions related to such issues as search and seizure, admissions and confessions, wiretapping and eavesdropping, right to counsel, fair trial, self incrimination, cruel and unusual punishment. Prerequisite: AJ 420.

(Formerly AJ 447. Legal Issues in the Administration of Justice. Change in number, title, and prerequisites.)

AJ 460. Court Procedures. (3)

General review of the major activities and procedures involved in the conduct of criminal trials, with extensive use of mock trial exercises. Prerequisite: AJ 440.

(Formerly AJ 446. Fifth Amendment and Court Procedures. Change in number, title, description, and prerequisites.)

AJ 470. Management of Justice Agencies. (3)

A comprehensive and critical evaluation of the important theories, practices, and current research related to the organizational structure and administrative activities of such agencies as police departments, courts, and prisons. Prerequisites: completion of all lower division major requirements, AJ 330 and 380, and senior status.

(Formerly AJ 462. Administration of Justice Agencies. Change in number, title, description, and prerequisites.)

AJ 480. Community Based Treatment of Offenders. (3)

An analysis of the history, philosophy, theory, and function of probation, parole, pardon, halfway houses, work release centers, and other forms of community-based treatment; evaluation of the effectiveness of treatment of the offender in the community; contemporary usage of the presentence investigation report, selection, supervision, and release of probationers and parolees; exploration of current innovations in corrections such as use of volunteers and offenders as correctional manpower resources. Prerequisites: completion of all lower division major requirements, AJ 330 and 380, and senior status.

(Formerly AJ 454. Change in number and prerequisites.)

Old Courses Dropped

AJ 111. Police and Justice. (3)

AJ 112. Courts and Justice. (3)

AJ 113. Corrections and Justice. (3)

AJ 360. Correctional Counseling. (3)

AJ 445. Legal Aspects of Arrest, Search, and Seizure. (3)

AJ 461. Organization of Justice Agencies. (3)

AJ 463. Supervision of Justice Personnel. (3)

PUBLIC ADMINISTRATION

New Courses

PA 536. Strategic Planning. (3)

This course provides an overview of the history and application of planning systems to public sector functions and explores newer "stakeholder" theories of planning, planning models, and the step-by-step process for initiating and engaging in a planning process at various levels of government. Through the use of case studies students explore when and why planning disasters occur and how they might be averted.

- PA 547. Interpersonal Communications in the Public Sector. (3)
This course will explore the theory and practice of human communication in an organizational context. Special emphasis will be placed on theories of task-group communication, interpersonal conflict resolution and cross-value (intercultural, interethnic) communication. Various exercises will emphasize skills in verbal presentation, group communication, and interpersonal communication in the context of status, cultural, ethnic and gender differences.
- PA 548. Advocacy Roles in Public Management. (3)
This course explores the skills of advocacy as they relate to the duties of the public administrator. The basic principles of argumentative procedure are emphasized with a focus on oral advocacy, briefing arguments, and conducting public hearings. Videotape will be used to help develop the oral communication skills of the advocate.
- PA 583. Advanced Budgeting Concepts and Techniques. (3)
This course investigates how budgeting can be used to review, analyze, and establish public policy and administrative accountability. Students learn how to: 1) Design the best budget system to fit various political environments; 2) Review the effectiveness and efficiency of programs through budget analyses; and 3) Use the budget to clarify public policy issues and establish management accountability for performance. The mechanics of public budgeting will also be discussed in detail, including developing a budget calendar, making fund balance estimates, balancing revenues and expenditures, and monitoring the approved budget. Students should have practical experience or a previous course in budgeting.
- PA 587. Health Care Financial Management. (3)
This course focuses on the analysis and administration of resources in the health care field. Among the specific topics included in this course are financial statements, budgeting, cash flow, costing, capital decision making, sources of capital and operating funds, depreciation and government reimbursement schemes, and human resources planning and management.

URBAN STUDIES AND PLANNING

New Courses

- USP 509. Practicum. (Credit to be arranged)
Pass/No Pass only.
- USP 511. Urban Social Structure. (3)
An introduction to the social aspects of urban areas. Considers concepts such as neighborhood and community in the urban context. Explores how the density and impersonality associated with cities alter social relationships and solve or create social problems. Also relates urban form to social patterns, especially as perceptions of access of isolation are created by the physical and institutional structure of a city.

USP 512. Urban Political Structure. (3)

An introduction to the political aspects of urban areas. Provides an overview of the structure and operation of local governments, how they are constrained by and interact with other levels of government and how the existence of many local governments in an urban area affects political decision making. It will also consider political questions that are of particular importance in urban areas; how different responses arise between urban areas; and how these different responses then influence the urban areas.

USP 513. Urban Economic and Spatial Structure. (3)

An introduction to the economic and spatial aspects of urban areas. Provides an overview of existing theories and empirical evidence relating to urban spatial and economic relationships. Examines the impact of transportation costs; federal, state, and local government policies, and changing economic conditions on these relationships.

USP 521, 522, 523. Small Group Methods of Policy Analysis. (3)

This seminar is a combination of lecture, group discussion and experiment with group methods to facilitate more effective task groups in the public and private sectors. The major focus is on SYMLOG, the Systematic Multiple Level Observation of Groups, which has a number of practical and research applications in organization analysis and development. Students may take one or two terms of the three term sequence with the consent of instructor.

USP 535. Regional Science Theory. (3)

This course covers theoretical subjects in the field of regional science associated with locational and regional development analysis, and analysis pertaining to regional development planning.

USP 553. Criminal Justice Policy, Planning, and Evaluation. (3)

Analysis of forms and sources of criminal justice policies. Relations between policy formation and planning implementation, planning strategies, varieties of planning, and planning tools and resources in criminal justice. Basic research tools in criminal justice, criminal justice program evaluation methodology.

USP 565. Health Policy. (3)

This course centers on an investigation of the public policy process as it affects the health care field. Specific health care policies and programs are used to explore the characteristics of the health care policy process and the factors involved in the formulation, implementation, and evaluation of health care policies and programs.

USP 573. Foundations of Regional Science. (3)

This course covers the analytical foundations of the field of regional science, which addresses the optimization of human activity in a spatial setting.

Changes in Old Courses

USP 202. The Urban Social Environment. (3)

Introduction to the social characteristics of urban areas, with consideration of ethnic relations, neighborhood patterns, and policies relating to poverty, health, justice, employment, education, and housing.

(Change in description.)

USP 421. Urban Design: History and Concepts. (3) grad
(Addition of graduate option.)

USP 527. Urban Design Workshop. (3 or 6)

A field workshop which concentrates on the processes and skills in developing an urban design plan for a selected area which is undergoing spatial and physical changes. Development of problem statements, development and evaluation of alternative design solutions, syntheses and presentation are stressed. Prerequisite: USP 315 or equivalent, USP 546; USP 421 recommended. Maximum: 6 credits.

(Change in prerequisites and credit hours from (3) to (3 or 6).)

USP 536. Policy Evaluation Methods. (3)

Focuses on the methodological issues that must be addressed in attempting to evaluate programs and policies. Course offers an introduction to a variety of techniques useful in policy evaluation. Topics which may be covered include difference equations, Markov models, and queuing models. A section of the course considers the methodological issues that arise in cost-benefit analysis, such as present value calculations, determining the value of non-market benefits, and correctly evaluating costs. Prerequisite: USP 515 or equivalent.

(Change in description.)

USP 561. Policy Analysis: Theoretical Foundations. (3)

Theories and ideologies of modern age that guide and constrain policy formation, administration and evaluation. Of particular concern is the understanding of the concepts of individualism, collectivism and community developed by the philosophers and social and behavioral scientists of this period.

(Formerly Policy Evaluation. Change in title and description.)

USP 566. National Urban Policy. (3)

The purpose of this course is to generate an understanding of the issues related to the formation of national urban policy. Attention is drawn to questions that confront the policy process: the nature and extent of governmental involvement in urban problem solving; effects of federal intervention in urban development; and future prospects of designing national policy in terms of dwindling economic and natural resources. The course examines policy areas that bear directly upon the arenas of work, education, health, social welfare, justice, environment, and energy.

(Change in description.)

Old Courses Dropped

USP 312. Principles of Environmental Design. (3)

USP 446. Environmental Law. (3) grad

USP 584. Social Change and Future of the City. (4)

USP 585. Community Theory. (4)