Faculty Senate Monthly Packet December 1991

Portland State University Faculty Senate

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TO: Senators and Ex-officio Members to the Senate
FR: Ulrich H. Hardt, Secretary to the Faculty

The Faculty Senate will hold its regular meeting on December 2, 1991, at 3:00 p.m. in 150 Cramer Hall.

AGENDA
A. Roll
B. Approval of the Minutes of the November 4, 1991, Meeting

President's Report

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. Report from IFS Executive Committee--Jackson
   *2. Annual Report, Graduate Council--Brennan
   *3. Annual Report, Library Committee--West
   *4. Annual Report, Scholastic Standards Committee--Howard

F. Unfinished Business
   1. University Planning Council Report--Goslin/Burns
   *2. Academic Requirements Committee Diversity Requirement Update--Millner

G. New Business
   *1. Proposal for Course and Program Changes, Curriculum Committee--Holloway (See Reserve Library for complete materials)

   *2. Proposal for Course and Program Changes, Graduate Council--Brennan (See Reserve Library for complete materials)

H. Adjournment

*The following documents are included with this mailing:

B Minutes of the November 4, 1991, Senate Meeting*
E2 Annual Report, Graduate Council**
E3 Annual Report, Library Committee**
E4 Annual Report, Scholastic Standards Committee**
F2 ARC Diversity Requirement Information**
G1 Proposal for Course and Program Changes, Curriculum Committee**
G2 Proposal for Course and Program Changes, Graduate Council**

**Included for Senators and Ex-officio Members only.
PORTLAND STATE UNIVERSITY

Minutes: Faculty Senate Meeting, December 2, 1991
Presiding Officer: Ansel Johnson
Secretary: Ulrich H. Hardt


Alternates Present: Krug for Arick, Korloff for Briggs, Skokan for Haaken, Kristoff for Sestak, Tseng for Stern, Robertson for Terry.

Members Absent: Duffield, Dunnette, Edwards, Gillpatrick, Johnson, Midson, Sobel.

Ex-officio Members Present: Desrochers, Diman, Erzurumlu, Frank, Hardt, Pfingsten, Ramaley, Reardon, Savery, Schendel, Ward.

APPROVAL OF THE MINUTES

The minutes of the November 4, 1991, meeting should have listed Bjork and Bowlden as present and should not have listed Dodds, who was only appointed to the Senate after that meeting, replacing D. Johnson. The minutes were approved.

ANNOUNCEMENTS

1. JOHNSON announced that Senators need to provide the name of an alternate to the Secretary.

2. A revised policy on sexual harassment will come to the Senate in January. JOHNSON also announced a workshop for Saturday, January 18, 1992, from 10:00-2:30 p.m., sponsored by the Sexual Harassment Resource Network.

JOHNSON has received a reply from Chancellor Bartlett re the PSU Senate's resolution opposing the athletics bailout. The chancellor reported that the State Board also opposed the staff recommendation on the bailout.

3. Sculptor Mike TAYLOR, on a grant from the Oregon Arts Commission, is surveying public art at PSU and distributed a questionnaire which he would like to get back in two weeks.
4. JOHNSON acknowledged that this would be Bob Frank's last Senate meeting. There was warm applause for FRANK's many contributions as interim provost to the University, and Senators were invited to attend the social hour following the meeting.

PRESIDENT'S REPORT

RAMALEY announced that the reorganization plan has been issued and will be implemented over time. OAA and OSA will be combined quickly; other parts of the reorganization are several months away. Details will appear in PSU Currently. There are three pieces to the reorganization: structural changes; the use of management teams rather than administrators, allowing us to combine expertise available on campus among faculty and others; and the initiation of quality management in those parts of the institution where it will be most beneficial and where problems need to be solved. She also announced that two people have gone to OSU to study how their organization is working.

REPORTS FROM THE OFFICERS OF THE ADMINISTRATION AND COMMITTEES

1. JACKSON reported that the IFS Executive Committee had met on November 9 to discuss alternatives to the proposed state bailout of athletics. They were joined by representatives of AOIP and AAUP and by Vice Chancellor Ihrig. The Executive Committee drafted a number of specific recommended alternatives and sent the letter to the board and chancellor.

2. BRENNAN presented the annual report of the Graduate Council.

3. WEST gave the annual report of the Library Committee. Use of the library is up since the new addition. He also announced that library hours will be extended to 11:00 p.m. on weekends. KARANT-NUNN asked if the proposal for the library's reorganization had been reviewed by the committee. WEST said that the committee had been informed of it. PFINGSTEN reported that he tried to inform the EPC, but it no longer existed.

4. HOWARD presented the annual report of the Scholastic Standards Committee. The committee acted on nearly 1,000 petitions. RAMALEY asked if staff could act on some of the routine requests. The staff and chairperson do, but requests for reinstatement require a great deal of compassion and careful reading by committee members, often especially in the summer. MOOR suggested that 12-month employees might be considered for membership on the committee. HOWARD thought that two days' extra pay may also be incentive for faculty to serve.
UNFINISHED BUSINESS

1. BURNS reported that UPC had sent a letter to acting dean John Oh requesting a proposal for the reorganization of the SBA. The proposal is to address, among other things, what benefit the reorganization is to the students, what the savings are, and what new positions have been created because of it. UPC also is concerned what input faculty will have in choosing the associate deans. For the record, BURNS also reported that Provost Frank had sent a letter to Oh saying he should clear the reorganization with all appropriate University committees. BJORK asked if that had been done. Not until now, and it was being done retroactively. BURNS thought, however, that the Senate could ask the SBA to make changes, but an informal survey of the business faculty had shown that most were content with the changes and were willing to try out the new reorganization. BJORK thought the quality of the response of faculty to the survey could be doubted, since we learn to accommodate to things that have already happened.

2. The ARC is requesting input from all departments and programs on the criteria regarding the diversity course list. Responses are coming in now, and a draft statement will be distributed later in December, with hearings scheduled in January. The HPE 298 requirement will also be discussed by ARC.

NEW BUSINESS

1. The Curriculum Committee presented proposed new courses and course changes.

KOSOKOFF/WURM moved "to approve all recommendations except the change of major in English and PSY 491."

There was some discussion regarding the extensive changes in Psychology, including some courses which appear to overlap with offerings in SBA and UPA. BRENAN and SKOKAN explained that the department was moving from a clinical to an applied psychology model with interests in industrial organization. While there appeared to be some overlap in the areas of leadership and group effectiveness, HOLLOWAY said the committee had been satisfied that courses were not duplicating existing ones. JOHNSON and BEESON explained that the Curriculum Committee and Graduate Council both had representatives from across the University on them who would raise these questions on overlap and duplication; further, all requests for new courses have to respond to that on the proposal form. WEIKEL thought the psychology courses looked pretty basic and belonged in the department. BJORK was concerned that PSY 592 Decision Making II would not have a mathematics prerequisite.
MOOR encouraged ways to cooperate and coordinate offerings during these times.

The motion was passed.

2. The Graduate Council recommended program changes, and KOCAOGLU/ABBOTT moved "to accept all changes as proposed."

The motion was passed.

In a separate motion, BOWLDEN/ABBOTT moved "that all graduate course proposals, including those of the School of Education tabled during the November meeting, be approved."

BJORK/SCHAUMANN moved "to delete PSY 592 from that list, because of its lack of mathematics as a prerequisite."

The motion to delete was defeated.

The main motion to approve the graduate courses was passed.

ADJOURNMENT

The meeting was adjourned at 16:28.
November 14, 1991

TO: Rick Hardt, Secretary
    Faculty Senate

FROM: Eileen Brennan, Chair
       Graduate Council

RE: 1991 Graduate Council Annual Report

Appreciation is extended to the members of the 1991 Graduate Council:

Carl Abbott, Lois Breedlove, Robert Casteel, Michael Cummings, Thomas
Dieterich, Jack Featheringill, Claudine Fisher, Tom Gillpatrick, Stan Hillman,
David Krug, Faye Powell, Graig Spolek, Milan Svoboda.


ROLE OF THE GRADUATE COUNCIL

The Graduate Council is established by the Faculty Constitution and is charged with the duties outlined on page 10 of the 1991-92 Faculty Governance Guide. These duties include the development and recommendation of University policies; establishment of procedures and regulations for graduate studies; adjudication of petitions regarding graduate regulations; recommendation of suitable policies and standards for graduate courses and programs; coordination of graduate activities with regard to requests for changes in courses, requests for new courses and programs, and changes in existing graduate courses.

POLICY DECISIONS

Residence Credit
The Graduate Council voted to amend the now outdated policy requiring a minimum of 12 credit hours at the 500 level in residence credit.

The proposed policy is as follows:

Residence Credit. In a 45-credit program, a master's candidate must earn a minimum of 30 graduate credits in courses on the PSU campus during the student's graduate degree status (regular or conditional) and graduate certificate status. In a degree program greater than 45 credit hours, a master's candidate must earn a minimum of two-thirds of the required credits in courses on the PSU campus during the student's graduate degree status (regular or conditional) and graduate certificate status. A minimum of 12 credit hours in a 45-degree program (or 25% of the required credits in a degree program greater than 45 credit hours) must be taken in residence in 500, 500/600, or 600 course level categories. The remainder of the required credits may be 400/500 courses taken for the 500-level number.

[plus 3 additional paragraphs, p. 94, PSU Bulletin 1990-91]
Dissertation Options
The Graduate Council voted to reject the joint authorship dissertation option requested by the School of Education.

IP Grades
In-Progress grading options were approved for USP 558, CI 506, and SPED 506.

OTHER ACTIONS

Report on the Impact of Budget Adjustments on Graduate Programs
The Graduate Council analyzed the recommendations of the Transition Team and the effect on Graduate Programs. A comprehensive report was sent to the Senate.

Joint Program OHSU MS Nursing/MPA
No more requirement waivers or transfer limits waivers will be given after Summer 1991 for students enrolled in the joint MPA Public Administration (PSU) and MS Nursing (OHSU) degree program unless a report reaches the Graduate Council which satisfactorily detail the methods the department will use to monitor the program more closely.

Graduate Petitions
The Chair continued the procedure of appointing a revolving subcommittee to read student petitions submitted to the Graduate Council. During the 1990-91 academic year, there were 71 petitions upon which the Graduate Council acted. This is a 24% decrease from the 1989-90 year and a 51% decrease from the 146 graduate petitions in the 1987-88 year. The Office of Graduate Studies attributes this decrease in part to the identification of potential problems prior to graduation which allows other alternatives to be implemented. Overall 89% of the petitions were approved which is higher than the 83% approval rate of the previous three years. Three of every four petitions requested a waiver of the one-year deadline for removal of incomplete, an extension of the seven year limit on course work, or a waiver of the course transfer limits. Another 12% dealt with probation and disqualification issues. The results of the petition activity and analysis for the year are attached.

Multidisciplinary Graduate Writing Course
The Graduate Council voted to endorse the concept of a multidisciplinary writing course for graduate students.

NEW PROGRAMS

Early Childhood Education Endorsement:
The Graduate Council voted to approve the proposed Early Childhood Education Endorsement program. PSU approval of the program is required for certification by TSPC (Teachers Standards and Practices Commission).
PROGRAM CHANGE APPROVALS

The following program changes were approved in the College of Liberal Arts and Sciences:

**MA English:**
Three tracks will be available for the MA: the non-thesis option, emphasizing general coverage of literary material; the critical thesis option, with specialized scholarly research; and the creative thesis option, offering an opportunity to focus on creative writing skills.

**MA/MS Geology**
Program change for the master's program in geology simply reflects the change in the numbering system to 500/600 for graduate courses.

**MAT/MST Mathematics**
Revise the MAT/MST course requirements and eliminate the written comprehensive exams.

**MA/MS Sociology**
Drop the qualifying exam based on the rationale that students have already been tested over the material; they rarely failed the exam; and it slows their progress.

The following program changes were approved in Engineering:

**MA/MS Civil Engineering**
Drop the requirement of the passing the Fundamentals of Engineering Exam. Students are not allowed to take exam unless they have a BS in Engineering.

**MA/MS Electrical and Computer Engineering**
To includes three credits in seminar.

The following program change was approved in Education:

**MA/MS Education: Special Education**
To have two options for the masters degree; with or without certification. Eliminate written exams and replace with a special project which will include a final presentation to the School of Education Masters' Committee. The thesis remains the other option.

**Standard Certification**
The TSPC authorization for Portland State to offer the standard certification program expired in August 1991. Portland State and other state institutions were granted emergency approval through December 1991.

The following program changes were approved in Urban and Public Affairs:

**MS Administration of Justice**
Drop the requirement of the Systems Science courses and change other course requirements, including increasing the electives from 6 to 15.

**MURP Urban and Regional Planning**
Increase the *Computer Applications* course from one credit to two credits, thus increasing the credits required for the degree from 72 to 73.

**MPA Public Administration and Public Administration: Health Administration**
Changes are a product of an accreditation review by the National Association of Schools of Public Affairs and Administration. No new courses are added. One course, Intergovernmental Relations, is eliminated, and two, rather than only one, analytical courses are now required. The Integrative Seminar PA 507 is replaced with a discrete number, PA 512.
The following program change was approved in Fine and Performing Arts:

**MFA Masters of Fine Arts**

Drop the Ceramics option (eliminated by the Transition Team in the wake of Ballot Measure 5), from the MFA, and change the title of the painting option to the Masters of Fine Arts in drawing/painting/printmaking. The MFA in sculpture remains the same. The change more accurately reflects the existing study options within the concentration.

The following program change was approved in Health and Human Performance:

**MAT/MST in Exercise Science and Sports Studies**

Due to the elimination of the program and the large number of students required to complete the degree during the 1990-91 academic year, the one hour oral examination was eliminated, and the written exams were changed from 2 to 3 hours.

**PROGRAM CHANGES REJECTED**

**PhD Environmental Sciences: Geography:**

The Geography Department requested that Geography be added as an option in the ESR PhD program. The Graduate Council voted to reject the proposal on the basis that it was not a minor program change.

**COURSE CHANGES**

New course prefixes were approved for:

- ESSS: Exercise Science and Sports Study (Activity classes will remain PE)
- SPHR: Speech and Hearing Science (Speech Communication will remain SP)
- ARH: Art History
- ARCH: Architecture

Course changes approved in the College of Liberal Arts and Sciences:

- **Economics**: EC 426/526, EC 456/556, EC 466/566, EC 527, EC 537, EC 573, EC 675, EC 676
- **Geography**: GEOG 412/512, GEOG 434/534, GEOG 445/545, GEOG 446/546, GEOG 452/552
- **History**: HST 489/589 and HST 490/590
- **Foreign Languages**: JPN 477/577, JPN 478/578, JPN 479/579.
- **Physics**: PH 464/564 and 492/592.
Linguistics LING 441/541, LING 442/542, LING 445/545, LING 470/570, LING 494/594,
Speech and Hearing Sciences SPHR 487/587, 488/588, 494/594, 495/595, 496/596, 497/597, 498/598
SPHR 584, SPHR 584L, SPHR 585, SPHR 585L

The following courses were dropped:
Economics EC 427/527, EC 455/555, EC 467/567
Psychology PSY 463/563, PSY 511, PSY 515/516/517, PSY 522, PSY 523, PSY 525, PSY 526, PSY 530, PSY 531, PSY 575, PSY 583

The following course was NOT approved:
Physics PH 426/526

Course changes approved in the School of Engineering:
Civil Engineering CE 442/542,576
Electrical Engineering EE 485/585,486/586,587/687,588/688
Mechanical Engineering ME 458/558, ME 588/688
Computer Science CS 555, CS 556

Courses NOT approved:

Course changes approved in the School of Urban and Public Affairs:
Urban Studies USP 530,557,558,559,568/668,664,638
Public Administration PA 512 and PA 561.

Course changes approved in the School of Education:
Special Education SPED 519,560

Course changes approved in the School of Fine and Performing Art:
Art ART 490/590 and ART 494/594
The following courses were dropped:
Art ART 455/555 and ART 502
1990-91 Graduate Council Petition Summary

<table>
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<tr>
<th>CODE</th>
<th>EXPLANATION</th>
<th>A</th>
<th>P</th>
<th>D</th>
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<th>Per</th>
<th>Cent</th>
<th>Total</th>
<th>Petitions</th>
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<td>0%</td>
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<td>TRANSFER CREDITS</td>
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1990-91 Petitions Approved: 71

Number of petitions in Previous Years

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<th>Year</th>
<th>Petitions</th>
<th>Approval Rate</th>
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<td>1987-88</td>
<td>146</td>
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<td>1989-90</td>
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<td>1990-91</td>
<td>71</td>
<td>89%</td>
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During 1990-91 there were 25% fewer petitions than in 1989-90 and 51% fewer than in the 1987-88 academic year.

QAA-GS/bp

11/15/91
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<td>34 29 5 85%</td>
<td>28 24 4 86%</td>
<td>24 22 2 92%</td>
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<td>Waive one year deadline for incompletes</td>
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<td>34 29 5 85%</td>
<td>28 24 4 86%</td>
<td>24 22 2 92%</td>
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<td>SEVEN YEAR LIMIT ON COURSEWORK</td>
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<td>23 20 3 87%</td>
<td>21 20 1 95%</td>
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<td>Waive seven year limit on coursework</td>
<td>19 18 1 95%</td>
<td>18 17 1 94%</td>
<td>21 20 1 95%</td>
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<td>Waive 7 year limit on transfer courses</td>
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<td>5 4 1 75%</td>
<td>5 3 2 60%</td>
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<td>Change from UG to Graduate Credit</td>
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<td>Change from P/NP to grade retroactively</td>
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<td>Change &quot;Audit&quot; to graded graduate level</td>
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<td>Rescind disqualification</td>
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<td>Extend probation</td>
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<td>Readmission after one year disqualification</td>
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<td>2 1 1 50%</td>
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<td>Waive minimum enrollment while on probation</td>
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<td>Waive min. enrollment policy for master's exams</td>
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<td>1 1 0 100%</td>
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<td>Waive residence req. for 500-level courses</td>
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<td>1 1 0 100%</td>
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<td>1 1 0 100%</td>
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<td>Accept more transfer hours than allowed</td>
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<td>20 18 2 90%</td>
<td>13 7 6 54%</td>
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<td>Accept reserved credit from another Institution</td>
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<td>3 3 0 100%</td>
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<tr>
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<td>Reserved Graduate Credit within 45 hrs of BS</td>
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<td>Accept non-graded transfer credit</td>
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<td>6 6 0 100%</td>
<td>2 2 0 100%</td>
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<td></td>
<td>Waive 12 hr limit for research grad credit</td>
<td>2 1 1 50%</td>
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<td>H</td>
<td>REGISTRATION PROBLEMS</td>
<td>27 21 6 78%</td>
<td>3 1 2 33%</td>
<td>5 4 1 80%</td>
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<tr>
<td>H1</td>
<td>Retroactive registration</td>
<td>11 11 0 100%</td>
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<td>Late Payment of Fees after one term</td>
<td>5 5 100%</td>
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<td>2 2 0 100%</td>
<td>1 0 1 0%</td>
</tr>
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<td>Retroactive withdrawal</td>
<td>7 4 3 57%</td>
<td>1 0 1 0%</td>
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<td>1 0 1 0%</td>
</tr>
<tr>
<td>H4</td>
<td>Registration problems with By Arrangements</td>
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<td>0 0 0</td>
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<tr>
<td>H5</td>
<td>Register and receive grade for past attended class</td>
<td>3 0 3 0%</td>
<td>1 1 0 100%</td>
<td>1 1 0 100%</td>
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<tr>
<td>H6</td>
<td>Accept late grade change</td>
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<td>1 1 0 100%</td>
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<td>H7</td>
<td>Change grade option retroactively</td>
<td>0 0 0</td>
<td>0 0</td>
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<td>1 1 0 100%</td>
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<tr>
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<td>Extension of Time for Dissertation Completion</td>
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<td>Reconsider core exams and termination from PhD</td>
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<td>Waive 3-month waiting period to retake exams</td>
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<td>N1</td>
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<td>1 1 0 100%</td>
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TOTAL 146 121 25 83% 108 90 18 83% 94 78 16 83% 71 63 8 89%

Page 2 11/15/91
Library Committee
Report to the Senate
December 2, 1991

Library Committee appointments are for the calendar year. The members for 1991 were Joyce Petrie (ED), Craig Carr (PS), Jean Scholtz (CS), Mary Sullivan Taylor (BA), Jean Murray (ME), Lois Becker (HST), and Franklin West (HST), Chairperson. Student members were Carolyn Lundstrom and Jacqueline Miller. C. Thomas Pfingsten, Director of the Library, and Terry Rohe, Acting Assistant Director, met regularly with the Committee to answer questions and supply essential information.

The Committee devoted much time and attention to the question of how the library can maintain a desirable level of acquisitions in light of budgetary limitations and, in some areas, above average rates of inflation. Generally speaking, departmental allocations for books (monographs) remained steady this year. The serials budget, however, had to be trimmed, to a large degree due to many exceptionally high increases in the cost of foreign subscriptions. The library staff made a careful effort, in conjunction with concerned faculty members and the Committee, to identify titles that could be most easily dispensed with. 273 subscriptions were cut. Although no one was happy to see this reduction take place, it was unavoidable. The creation of a major regional research library remains an obvious necessity for the future development of the Portland area, but the Millar Library can not serve as the core collection in this growth if funding is reduced. Unfortunately, the prospect for truly sufficient funding for a growing library collection is not bright, especially if the next stages of Measure 5 go into effect.

More positively, the Committee is pleased to observe that progress toward developing more effective cooperation among the academic libraries in the Portland region is definitely taking place, with results that will be visible soon. Nationally, this year the Millar Library has gained access to important and extensive research materials by joining the Center for Research Libraries as an associate member.

Early in the year the Committee heard reports from Mr. Pfingsten on the final stages of completion of the new library addition and on the readying of added space for use. Likewise, the Committee carried on quite a bit of preliminary discussion over the kind of dedication ceremony to be arranged. The actual arrangements, however, were taken over by a special Library Dedication Committee and the dedication was held Sunday, November 3.
The Scholastic Standards Committee is a basic service rather than a policy committee. Our time is spent individually reading the petitions of students rather than in group meetings. The petitions fall generally under two areas: admissions and reinstatements of students that have been suspended, and changes in students academic records.

The following numbers of petitions were reviewed and ruled upon between November, 1990 and October, 1991:

| Reinstatements: | accepted: 82 | denied: 62 |
| Admissions:     | accepted: 73 | denied: 21 |

This represents a decrease of about 40% in reinstatements of former PSU students and an increase of about 20% in applications from other institutions over that of one year ago. The rate of acceptance of reinstatements is about the same (60%) but the rate of acceptance of students suspended from other institutions has increased from 65% to nearly 80%.

| Change registration: | accepted: 300 | denied: 40 |
| Grade option change: | accepted: 155 | denied: 80 |
| Incomplete extension: | accepted: 125 | denied: 1 |
| Grade changes after 1 year: | accepted: 11 |

As you can see, incomplete extensions are generally approved as long as they are supported by the instructor in charge. Petitions in this area were up 40% over last year. Registration errors are usually approved, and late payment of fees require approval of this committee. Petitions in the area are about the same as last year.

The greatest increase in petitions -- up 80% over last year -- are grade option changes. The committee approves cases where errors clearly have been made, and generally does not approve cases where the major reason is to improve GPA by switching between A-F and P/NP. Exceptions to this have been necessary for students in those departments which require letter grades for majors but offer their classes on a P/NP option. This practice complicates the functioning of our committee, and the practice should be reviewed on a University-wide basis. Most of the denied petitions in this area fall under the category of "grade shopping" to improve GPA retroactively.

A total of 950 petitions were received and acted upon, an increase of about 5% overall from last year. One of the largest problems that the committee faces is that much of the petition load appears during the summer when the members of this committee are not on the payroll of the University. It places a burden on those who are on campus during the summer and delays the speed at which students can receive rulings on their petitions. This is the major area where the University needs to review the fairness of its procedures.

Respectfully submitted,

Elliot Benowitz
Nancy Chapman
Sue Danielson
Eugene Enneking
Bruce Keller
Robert Lockerby
Edith Sullivan
Marjorie Terdal
Hormoz Zarefar
Donald Howard, Chair
Timeline for Action
on
Diversity Course List

November 19  -  Request for input on criteria statement goes to departments.
December 2 - 6 -  Responses on criteria statement come back from departments to the ARC.
December 19 -  Draft criteria statement prepared by ARC
December 20-27 -  Draft criteria statement distributed
January 13  -  ARC to take public testimony on criteria statement at open meeting 2-3 p.m., CH 150.
      Faculty Senate to review criteria statement at regular monthly meeting.
January 16  -  ARC to take public testimony on criteria statement at open meeting 3-4 p.m., CH 150.
January 21  -  Criteria statement sent to departments with request that courses proposed for inclusion on the Diversity list be submitted to the ARC by February 3, 1992.
February 3  -  Courses proposed by departments for Diversity list due at the ARC. Faculty Senate reviews final criteria statement.
February 6  -  ARC generates draft list of courses for the Diversity Requirement.
February 7  -  Draft list of courses posted and distributed to departments.
February 14 -  ARC hears appeals to listings.
*February 17 -  Special Faculty Senate Meeting to consider final list of Diversity courses.

*Tentative Date
PORTLAND STATE UNIVERSITY
1992-93
New Courses and Course Changes

COLLEGE OF LIBERAL ARTS AND SCIENCES

Applied Linguistics

Ling 441/541 NATURAL LANGUAGE PROCESSING (3)
Overview of natural language processing from perspective of linguistics, artificial intelligence, cognitive science. Emphasis on syntactic analysis, and parsing techniques. Includes discussion of commercial and research systems. Prerequisite: Ling 390 or CS 161. [NEW]

Ling 442/542 SPEECH RECOGNITION AND SYNTHESIS (3)
Introduction to speech recognition and synthesis techniques. Covers linguistic issues (speech production, acoustic-phonetics, syntax and semantics) and systems issues (data acquisition, control structures, algorithms). Includes discussion of commercial and research systems. Prerequisite: Ling 390 or CS 161. [NEW]

Ling 470/570 GRAMMAR FOR TESOL (3)
A study of how to teach difficult grammatical structures in English, how to resolve problems and questions that frequently arise in the ESL classroom, and how to adapt and supplement ESL texts. Prerequisite: Ling 390. [NEW]

Ling 494/594 LINGUISTICS AND LITERATURE (3)
Studies in the linguistic analysis of literature (both poetry and prose), from the perspectives of syntax, phonology, morphology, speech acts, discourse analysis, and dialectal variation. Prerequisite: Ling 390. [NEW]

*Ling 445/545 LINGUISTICS AND COGNITIVE SCIENCE (3) [CHANGE NUMBER FROM 442/542]

Black Studies

BSt 305 AFRICAN HISTORY, 1500-1800 (3)
Prerequisite: BSt 205 or Hst 105. This course is the same as Hst 348; course may be taken only once for credit. [CHANGE PREREQUISITE]

BSt 306 AFRICAN HISTORY, 1800-PRESENT (3)
Prerequisite: BSt 205 or Hst 105. This course is the same as Hst 349; course may be taken only once for credit. [CHANGE PREREQUISITE]

Economics

*Ec 527 SEMINAR IN INDUSTRIAL ORGANIZATION (3)
Analysis of organization and operation of a market economy. Focus on debates between major "schools" of economic thought, their research programs, and their analysis of policy towards matters involving antitrust and public-utility-type regulation. Prerequisites: Ec 425, 426. [NEW]

*Not offered every year.
*Ec 537 SEMINAR IN PUBLIC FINANCE (3)
Analysis of the role of government spending and taxation in a market economy. Discussion of the various methods of measurement of the size and influence of the government. Evaluation of the principal schools of thought on the role of the government in the economy. Review of the literature on the principles of taxation and the analysis of its shifting and incidence. [NEW]

*Ec 573 SEMINAR IN QUANTITATIVE ECONOMICS (3)
Explores techniques of advanced mathematical and statistical analysis as applied to economic problem solving. Examples from recent literature on mathematical economics and econometrics will be used. Prerequisites: Ec 580, 581, 570, 571. [NEW]

*Ec 675 ADVANCED MACROECONOMICS II (3)
Extended analysis of macroeconomic theory covering static, deterministic models through recent dynamic and stochastic macro modeling. Analytic tools in both theoretic and empirical models are illustrated in the study of inflation, unemployment, growth, and government policy. Prerequisite: Ec 575. [NEW]

*Ec 676 ADVANCED MICROECONOMICS II (3)
Extended analysis of microeconomic theory covering individual and social choice issues. Selected topics of interest and significance include but not limited to: rational choice behavior of consumers and producers, theory of the market, partial and general equilibrium analysis, welfare economics, and economics of information. Prerequisite: Ec 576. [NEW]

Ec 426/526 ECONOMICS OF REGULATION (3)
Study of those governmental regulations intended to alter/control the organization of industry. Historical and economic analysis of direct regulations which deal with competition and monopoly and which take form either in public utility (and transportation) regulations or in antitrust law. Prerequisites: Ec 201, 202, 203. [CHANGE TITLE AND DESCRIPTION]

Ec 456/556 AMERICAN ECONOMIC HISTORY: THE FIRST CENTURY (3)
The economic background of the War of Independence and the seeds of the Civil War. Industrialization, urbanization, and development of the frontier. Rise of big business and organized labor. Laissez-faire, federalism, and the gradual emergence of the national government in economic policy. Changes in foreign trade and in the international position of the U.S. Prerequisites: Ec 201, 201, 203. [CHANGE TITLE AND DESCRIPTION]

Ec 466/566 LABOR INSTITUTIONS AND POLICY (3)
Study of the private and public institutions which have arisen in the area of collective bargaining over labor contracts. Economic history and analysis of the labor union, the role of the NLRB, arbitration, and mediation in the determination of wages and working conditions. Prerequisites: Ec 201, 202, 203. [CHANGE TITLE AND DESCRIPTION]

Ec 314 URBAN ECONOMICS (3) [DROP]
Ec 318 MONEY AND BANKING (3) [DROP]
Ec 319 PUBLIC FINANCE (3) [DROP]
Ec 320 INTERNATIONAL ECONOMICS (3) [DROP]
Ec 427/527 GOVERNMENT REGULATION OF BUSINESS (3) [DROP]
Ec 455/555 AMERICAN ECONOMIC HISTORY: THE COLONIAL PERIOD TO THE EARLY 19TH CENTURY (3) [DROP]
Ec 467/567 LABOR LEGISLATION (3) [DROP]

English

Eng 301 APPROACHES TO TEXTS: THE LANGUAGE OF LITERARY STUDY (3)
A course in the terminology students require to discuss literature. Faculty demonstrate varied approaches to texts: versions of literary criticism. (Recommended as a prerequisite to upper division English courses.) [NEW]

Eng 300 CRITICAL APPROACHES TO LITERATURE (3)
Prerequisites: upper division standing, 9 credits in literature, and Eng 301. [CHANGE PREREQUISITES]

Foreign Languages and Literatures

Jpn 477/577, 478/578, 479/579 TEACHING JAPANESE AS A FOREIGN LANGUAGE (3, 3, 3)
Principles of instructional methods in teaching Japanese to speakers of languages whose orthography is not Kanji-based. Readings in language pedagogy, particularly the pedagogy of non-Indo-European languages. Students are required to teach and observe classes in an approved Japanese program. Prerequisites: Ling 390, Jpn 303. [NEW]

Geography

*Geog 363 AFRICA (3)
A survey course on the physical and human geography of the continent of Africa, focusing on the variability of the physical landscape, including geomorphology, vegetation, and climate, and on the patterns and implications of cultural diversity. Examines links between natural resources, economic development, and environmental management on location, national and regional scales. Prerequisite: Geog 150 or 210. [NEW]

Geog 412/512 ADVANCED GEOMORPHOLOGY (3)
Study of landform processes with focus on the dynamics and significance of the creation of initial relief, as well as the operation of mass wasting, fluvial, glacial and aeolian systems. The significance of geomorphic processes and resultant landforms to human activities is stressed. Emphasis is on landscapes of the Pacific Northwest. Prerequisite: Geog 312. [NEW]

Geog 446/546 WATER RESOURCE MANAGEMENT (3)
An analysis of the distribution, use and management of water resources, emphasizing the systems of water rights, legislation, and regulations which govern water resources. Issues of water development and water quality are examined. Included are discussions of environmental concerns. Examples are drawn from local, regional, and international water resource management schemes. Prerequisite: Geog 345. [NEW]

Geog 280 COMPUTING IN GEOGRAPHY (3)
[CHANGE NUMBER FROM 380 AND DELETE PREREQUISITES]
Geog 331 ECONOMIC GEOGRAPHY (3)
An introduction to theories and methods of locational analysis of economic activities within agriculture, manufacturing and selected services. The course focuses on North America and includes geographic distributions, areal interaction among urban and regional economies, the process of regional economic development, and international economic linkages. Prerequisite: Geog 230. [CHANGE DESCRIPTION]

*Geog 434/534 METROPOLITAN ECONOMIC GEOGRAPHY (3)
Study of how North American metropolitan areas are organized economically and geographically and how spatial distributions are altered under the impact of socio-economic and technological change. Topics include industrial location, retail trade, public services, and housing. Prerequisites: Geog 331 or Ec 314, or Ec 414. [CHANGE TITLE AND DESCRIPTION]

Geog 445/545 RESOURCE MANAGEMENT II (3)
An in-depth analysis of a selected natural resource management issue. Topics will vary each time the course is taught; e.g., urban resource management, public lands management, forest ecosystems, global climate change, etc. Analysis of each issue will include consideration over a range of spatial scales, from the local to the international. Prerequisite: Geog 345. [CHANGE DESCRIPTION]

Geog 452/552 JAPAN (3)
The course focuses on the major geographical factors underlying Japan's rise to industrial and economic greatness in the present day. The main emphasis is upon the rise and development of cities and industry, the agricultural characteristics of Japan, and its contemporary trade relationship with the Pacific Northwest. Prerequisite: Geog 150. [CHANGE DESCRIPTION AND PREREQUISITE]

Geology

*G 460/560 MORPHOLOGY AND GENESIS OF SOILS (4)
Effects of climate, vegetation, parent material, topography, and time on the development, weathering, classification and chemistry of soils. Prerequisites: G 201,202, Ch 200-level (1 year). [NEW]

*G 461/561 ENVIRONMENTAL GEOLOGY (4)
Study of natural hazards and related land use planning (flooding, landslides, earthquakes, volcanic, coastal), waste disposal and pollution in the geological environment, water supply, mineral and energy resources, environmental law related to geology, medical geology, climatic change. Prerequisites: General chemistry (1 year), G 201, 202. [NEW]

G 316 SEDIMENTARY MINERALOGY AND PETROLOGY (5)
Study of terrigenous, biogenic and evaporite sedimentary rocks and minerals, including genesis by weathering, transport, diagenesis and other processes. Emphasis on the petrographic character of sedimentary rocks. Three lectures; two 2-hour laboratory periods. Prerequisites: G 313, 315. [CHANGE DESCRIPTION AND CREDITS HOURS FROM 4 TO 5]
G 392 STRATIGRAPHY (4)
Principles and techniques of recognition, interpretation and correlation of stratiﬁed rock units used to establish time histories of tectonic, volcanic and surficial processes, environments of deposition, and subsurface aquifer and reservoir characteristics. Two lectures; two 2-hour laboratory periods. Prerequisite: G 391. [CHANGE TITLE AND DESCRIPTION]

*G 427/527 TECTONICS (3)
Study of global plate tectonics, driving mechanisms, plate reconstructions, seismicity, tectonic settings of continental margins and cratons, and tectonic evolution of orogens and basins. Prerequisite: G 391. [CHANGE TITLE, DESCRIPTION, PREREQUISITE AND ADD UNDERGRADUATE CREDIT]

G 447/547 SEDIMENTOLOGY (3)
Study of sediment, provenance, mechanisms of transport, sedimentary structures, depositional environment, and diagenesis. Focus on quantitative methods of predicting rates of sediment yield, transport and deposition. Prerequisite: G 316. [CHANGE TITLE, DESCRIPTION AND PREREQUISITE]

*G 474/574 GEOMORPHIC PROCESSES (4)
Three lectures; one three-hour laboratory. Prerequisite: G 202. [ADD LABORATORY, CHANGE PREREQUISITE AND CREDIT HRS. FROM 3 TO 4]

G 481/581 FIELD GEOLOGY I (6)
Geologic mapping in sedimentary and volcanic rocks or metamorphic and plutonic rocks during a summer field camp. A charge will be made for the expenses of the field camp. Approximately 64 hours of field work per week for three weeks in the summer. Prerequisites: G 316, 391, 392, 393. [CHANGE DESCRIPTION]

G 482/582 FIELD GEOLOGY II (3)
Geologic field studies of selected projects during a summer field program. A charge will be made for the expenses of the field project. Approximately 80 hours of field work during 1.5-2.0 weeks in the summer. May be repeated for credit when offered as a substantially different project. Prerequisite: G 481. [CHANGE DESCRIPTION AND CREDIT HOURS FROM 6 TO 3]

*G 512/612 ADVANCED IGNEOUS PETROLOGY (3)
Prerequisite: G 442/542. [CHANGE PREREQUISITE AND ADD DOCTORAL CREDIT]

G 518/618 CLAY MINERALOGY (3) [ADD DOCTORAL CREDIT]

G 519/619 ADVANCED GEOCHEMISTRY (3)
Prerequisite: G 437/537. [CHANGE PREREQUISITE AND ADD DOCTORAL CREDIT]

*G 521/621 FLUID/ROCK INTERACTIONS (4)
Prerequisite: G 437/537. [CHANGE PREREQUISITE AND ADD DOCTORAL CREDIT]

G 541/641 GROUND WATER MODELING (3)
Prerequisites: G 443/543, Mth 251, 252, 253, or Mth 254, CS 208. [CHANGE PREREQUISITES AND ADD DOCTORAL CREDIT]

*G 571/671 ADVANCED ENGINEERING GEOLOGY (3) [ADD DOCTORAL CREDIT]
*G 592/692 ADVANCED STRATIGRAPHY (3)
Studies of physical stratigraphy including seismic stratigraphy, sequence
stratigraphy, geochemical stratigraphy, paleomagnetic stratigraphy, well log
stratigraphy, and topics in Quaternary process stratigraphy. Prerequisite: G
392. [CHANGE DESCRIPTION, PREREQUISITE AND ADD DOCTORAL CREDIT]

*G 593/693 VOLCANIC STRATIGRAPHY (3)
Prerequisites: G 442/542, 445/545, 459/559. [CHANGE PREREQUISITES AND ADD
DOCTORAL CREDIT]

*G 594/694 ADVANCED STRUCTURAL GEOLOGY (3) [ADD DOCTORAL CREDIT]

G 112 HAZARDS OF THE GOOD EARTH (3) [DROP]
G 448/548 PETROLEUM GEOLOGY (3) [DROP]
G 449/549 SOIL AND ROCK DYNAMICS (3) [DROP]
G 450/550 ROCKS AND MINERALS (3) [DROP]
G 451/551 EARTH SCIENCE (3) [DROP]
G 511 ADVANCED MINERALOGY (3) [DROP]
G 526 ADVANCED SEDIMENTARY PETROLOGY (4) [DROP]
G 534 BIOSTRATIGRAPHY (3) [DROP]
G 573 GEOLOGY OF LAND USE (3) [DROP]
G 595 PHYSICAL PROCESSES IN GEOLOGY (3) [DROP]

History

Hst 348 AFRICAN HISTORY 1500-1800 (3)
An upper division course designed to survey the history of the African
continent from the period of European exploration to the eve of colonialism.
Using a lecture/discussion format, the course will examine the impact of the
European presence on African institutions and trade, and the relative
importance of the environment, technology, and indigenous social systems on
the transformation of African society prior to 1800. Prerequisite: BSt 205 or
Hst 105. This course is the same as BSt 305; course may be taken only once for
credit. [NEW CO-LISTING]

Hst 349 AFRICAN HISTORY 1800-PRESENT (3)
An upper division course designed to survey the history of the African
continent from 1800 to the present, with emphasis on the colonial period,
independence and post-independence. Prerequisite: BSt 205 or Hst 105. This
course is the same as BSt 306; course may be taken only once for credit. [NEW
CO-LISTING]

*Hst 490/590 HISTORY OF CHINESE THOUGHT II (3)
Chinese intellectual history, c. 800-1800. Emphasis on Neo-Confucianism, Sung
historiography, literati thought and culture; popular religion, Buddhism,
Taoism; philosophy and philology in the late imperial period. Prerequisite:
Hst 489. [NEW]

Hst 489/589 HISTORY OF CHINESE THOUGHT: I (3)
Chinese intellectual history to c. 800, including popular thought as well as elite
philosophy. Emphasis on Confucius, Mencius, and other pre-Ch’in thinkers;
Taoism, Legalism; Han cosmology and historiography; the introduction and
impact of Buddhism. Prerequisite: Hst 191. [CHANGE NUMBER FROM 485/585.
TITLE AND DESCRIPTION]
Mathematical Sciences

Mth 254, 255 VECTOR CALCULUS I, II (4, 3)
[CHANGE CREDIT AND LECTURE HOURS OF 254 FROM 3 TO 4]

Mth 343 APPLIED LINEAR ALGEBRA (4)
[CHANGE CREDIT AND LECTURE HOURS FROM 3 TO 4]

Philosophy

Phl 310 ENVIRONMENTAL ETHICS (3)
Critical study of issues raised by the attempt to formulate an adequate environmental ethic. Some of these issues have to do with how our treatment of the environment affects other human beings, for example, future generations. Others have to do with how non-human beings are to be treated. For example, do animals have rights? Do species have rights? Do our proper moral concerns extend to such things as trees, rivers, and possibly the planet itself? A number of current problems will be considered, such as population control, limits to growth, global warming, and endangered species.
Prerequisite: Phl 202. [NEW]

*Phl 311 THE MORALITY OF PUNISHMENT (3)
The focus will be on the nature and proper aims of punishment; moral considerations that bear on the justice and wisdom of punishment. Consideration will be given to the main theories of punishment: retributionism, utilitarianism, paternalism, and the view that punishment should be replaced by therapy. Special topics such as the punishment of juveniles, civil disobedience, and the treatment of violent psychopaths may also be considered. Prerequisite: Phl 202. [NEW]

Physics

*Ph 471 ATMOSPHERIC PHYSICS (3)
Study of physics-related phenomena in the atmosphere, such as electromagnetic/ optical phenomena (thunderstorms, remote sensing), mechanical/hydrodynamic phenomena (dynamics of wind, turbulence in the atmosphere), thermal phenomena (greenhouse effect); study of physical techniques applied to monitor the atmosphere (pollutant detection).
Prerequisites: Ph 201 series or Ph 207 series. [NEW]

Ph 322 COMPUTATIONAL PHYSICS (3)
Recommended prerequisite: Working knowledge of one or more computer languages. [CHANGE RECOMMENDED PREREQUISITE]

Ph 426 THERMODYNAMICS AND APPLICATIONS (4)
Concepts of temperature, work, energy and heat; laws of thermodynamics. Efficiencies of engines and refrigerators; comparison to theoretical models of Carnot and finite time thermodynamics. Irreversible thermodynamics, entropy, and applications, heat transfer, convection, and conduction.
Prerequisites: Ph 203 or 209, Mth 254, Ph 311 or 411. [CHANGE TITLE AND DESCRIPTION] (Corresponding 526 not approved)
*Ph 464/564 APPLIED OPTICS (4)
An overview of optics and such principal applications as fiber-optics; chemical, biological and physical sensors; optical information processing, acousto-optics; lasers and detectors. Prerequisites: Ph 203 or 209, Mth 254, and Ph 414 (laboratory course) concurrently. [CHANGE TITLE AND DESCRIPTION]

*Ph 492/592 RADIATION IN THE ENVIRONMENT (3)
Types of radiation and their interaction with matter, including organic tissue; methods of detection and shielding; evaluation of dosage and risk assessment; methods of energy generation based on nuclear energy; nuclear waste and disposal problems. Prerequisites: Ph 203, Bi 253, Ch 206 or equivalents. Calculus, previously or concurrently, is recommended strongly. [CHANGE TITLE AND DESCRIPTION]

Psychology

Psy 430/530 APPLIED SOCIAL PSYCHOLOGY (3)
Explores current and potential applications of social psychological theories and research methods, with a focus on work conducted in field settings. As a final project, each student examines an applied area of their own choosing (previous projects have focused on normative role transitions, responses to natural disasters, political attitudes, conflict resolution, and intergroup relations.) Prerequisites: Psy 321, 342, 343. [NEW]

Psy 459/559 INFANT DEVELOPMENT (3)
Development of the individual from conception to age two. Theory and research pertaining to infant development. Prerequisites: Psy 311 and 3 credits in courses numbered Psy 321 or above. [NEW]

Psy 465/565 APPLIED DEVELOPMENTAL PSYCHOLOGY (3)
Theory, methods, and research in selected areas of applied developmental psychology. Prerequisites: Psy 311; additional prerequisites vary by topic and instructor. [NEW]

Psy 467/567 WORK AND FAMILY (3)
An examination of the effects of work on family, and family on work, in contemporary society. Includes study of dual-career and dual-work families, effects of maternal employment on children, impact of child care and elder care on the workplace, and parental leave and other workplace supports for families. Implications of research for social policy. Prerequisites: Psy 311 and 3 credits in courses numbered Psy 321 or above. [NEW CO-LISTING]

Psy 468/568 SOCIAL DEVELOPMENT (3)
Development of individual’s social relationships from infancy to adolescence. Theory and research pertaining to social development from an interactional perspective. Prerequisites: Psy 311 and one of the following: Psy 459, 460, 461, or 462. [NEW]

Psy 471/571 HEALTH PSYCHOLOGY (3)
Study of the social and psychological influences on how people stay well, why some people become ill, and how persons respond to illness. Particular attention to the stress process. Prerequisites: 9 credits in psychology; Soc 204 and 205 may be substituted for 6 of these credits and HE 223 may be substituted for 3 of these credits. [NEW]
Psy 478/578 LEADERSHIP AND GROUP EFFECTIVENESS (3)
The study of leadership in task performing groups with an emphasis on interpersonal influence processes. Leadership viewed as statements or actions intended to influence group activities in that group's efforts towards goal setting and achievement. Includes theories of leader emergence and leadership effectiveness. Prerequisites: Mth 243 and 244, Psy 321 and 360. [NEW]

Psy 479/579 WOMEN AND ORGANIZATIONAL PSYCHOLOGY (3)
Examines the relationship between gender and the social organization of the workplace. Focus is on gender development as socialization into a sexual division of labor and on specific workplace issues (e.g. hierarchy and leadership, discrimination and harassment, deskill ing) from a social psychological perspective. Strategies for change are considered. Prerequisites: Psy 310 and 3 additional credits in courses numbered Psy 321 or above. [NEW CO-LISTING]

Psy 486/586 HUMAN PERFORMANCE AND MENTAL WORKLOAD (3)
Introduction to mathematical and conceptual theories of how the human performs simple and complicated tasks. Topics include signal detection theory, information theory, reaction time, attention, effort. Measures and theories of mental workload will be discussed as well as what leads to cognitive overload and how it can be altered. Prerequisites: Psy 321, Mth 243, and 9 credits of psychology. [NEW]

Psy 487/587 LIFE-SPAN DEVELOPMENT (3)
Theories and methodology for the study of processes and change in a life-span developmental perspective. Practical implications of different perspectives for theories and research regarding human development. Prerequisites: Psy 332 plus 6 credits in courses numbered Psy 459, 460, 461, or 462. [NEW]

Psy 491/591 DECISION MAKING I: VALUES AND CHOICE (3)
Normative models, descriptive models, and cognitive aids for structuring decision problems, evaluating consequences of alternative courses of action, and choosing among alternatives. Prerequisite: Mth 243 and permission of instructor. [NEW]

Psy 492/592 DECISION MAKING II: JUDGMENT AND REASONING (3)
Normative models, descriptive models, and cognitive aids for judgment and reasoning about probability, variation, covariation, and causality in anticipating the consequences of alternative courses of action. Prerequisite: Psy 491/591. [NEW]

Psy 493/593 DECISION MAKING LABORATORY (3)
Practice in the use of judgment techniques and decision software to structure decision problems, evaluate alternative courses of action, perform sensitivity analyses, and prepare presentations. Wherever possible, practice will be on current decision problems in field settings. Prerequisites: Psy 491/591 and 492/592. [NEW]
*Psy 497/597 SURVEY METHODS IN PSYCHOLOGY (3)
Presentation of the major problems of design and data collection in psychological research using questionnaires. Intended for those who wish to collect or analyze survey data. Students learn how the precision, accuracy, and credibility of a survey can be affected by its sampling strategies, interview or questionnaire item design, and data reduction techniques. A term project requires computer coding and analysis of survey data. Prerequisites: Mth 243 and 244, Psy 321. [NEW]

Psy 514/614 ADVANCED APPLIED SOCIAL PSYCHOLOGY (4)
Theory, methods, and selected topics in advanced applied social psychology. [NEW]

Psy 515/615 ADVANCED APPLIED DEVELOPMENTAL PSYCHOLOGY (4)
Theory, methods, and selected topics in advanced applied developmental psychology. [NEW]

Psy 516/616 ADVANCED INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY (4)
Theory, methods, and selected topics in industrial/organizational psychology. [NEW]

Psy 517/617 ADVANCED APPLIED EXPERIMENTAL PSYCHOLOGY (4)
Theory, methods, and selected topics in advanced applied experimental psychology. [NEW]

Psy 521/621 QUANTITATIVE METHODS IN PSYCHOLOGY I (3)
Summary of statistics useful for summarizing the distributions of random variables and their relationships: measures of central tendency and variability; correlation and linear regression; alternative measures of association; development of indices for reliability, validity, and item analysis using the algebra of expectations. [NEW]

Psy 522/622 QUANTITATIVE METHODS IN PSYCHOLOGY II (3)
Survey of the rationale behind and methods of data analysis for basic experimental designs: two group comparisons based on independent or matched observations; their extensions to several groups varying on one factor; two factor designs involving independent, matched, or mixed factors; Latin square, randomized block, and analysis of covariance designs. Nonparametric approaches and problems of multiple comparisons will also be discussed. [NEW]

Psy 523/623 QUANTITATIVE METHODS IN PSYCHOLOGY III (3)
Introduction to the general linear model; topics include multiple regression, discriminant analysis, canonical correlation, multivariate analysis of variance, and analysis of covariance. [NEW]

Psy 524/624 QUANTITATIVE METHODS IN PSYCHOLOGY IV (3)
Introduction to factor analysis and covariance structure modeling, topics include common factor analysis, principal components, confirmatory factor analysis, LISREL, research issues in building and confirming models. [NEW]

Psy 528/628 SEMINAR IN APPLIED DEVELOPMENTAL PSYCHOLOGY (3)
Theory and research in selected topics in applied developmental psychology. [NEW]
Psy 529/629 PSYCHOLOGICAL ISSUES IN LATER LIFE (3)
Methodological, theoretical and empirical issues in research on psychology and aging. Topics include cognitive processes, family and caregiving relationships, environmental issues and psychological predictors of successful aging. Emphasis is on encouraging students to develop their own research project in the field of psychology of aging. Prerequisite: admission to a graduate program or Graduate Certificate in Gerontology program. [NEW]

Psy 532/632 CLINICAL INTERVIEWING (3)
Introduction to principles and techniques of interviewing. Focus on clinical applications in organizational settings. [NEW]

*Psy 554/654 PSYCHOSOCIAL FACTORS IN MENTAL HEALTH (3)
Participants in this seminar will explore these questions: What are appropriate definitions of mental health and mental illness? How is psychological health related to subjective well-being? How do cultural, social structural, interpersonal and personality factors influence mental health? How is mental health affected by the stress process? Prerequisite: graduate status. [NEW]

*Psy 589/689 ADULT SOCIALIZATION (3)
This course examines the acquisition of social roles in adulthood. Two themes prevail: stages of socialization; and levels of transmission of social norms (cultural, organizational, and interpersonal). Prerequisite: graduate status. [NEW]

Psy 592 MATHEMATICAL MODELS IN PSYCHOLOGY (3)
Introduction to the use of probability theory and elementary functions in models for psychological processes: applications include decision analysis, psychophysics, and descriptive and theoretical applications of Markov chains in the study of learning and interpersonal interactions. [NEW]

* Psy 595/695 NEW FOUNDATIONS OF PSYCHOLOGICAL THEORY (3)
A review of the scientific concepts of the twentieth century and their applications to theoretical work in psychology. Concepts discussed will include entropy, information, systems and complementarity. Prerequisite: second year graduate standing in psychology or systems science or consent of instructor. [NEW]

Psy 200 PSYCHOLOGY AS A NATURAL SCIENCE (3) [CHANGE NUMBER FROM 205]

Psy 207 INTRODUCTION TO APPLIED PSYCHOLOGY (3)
A survey of selected applications of concepts and methodologies from the different areas of psychology such as experimental, industrial/organizational, social, and developmental. Prerequisites: Psy 200, 204. [CHANGE NUMBER FROM 318, TITLE, DESCRIPTION AND PREREQUISITES]

Psy 300 PERSONAL DECISION MAKING (3)
Instruction and practice in cognitive aids for improving intuitive and analytic thinking in making real-world decisions--creating new ideas, managing complexity, dealing with tradeoffs among conflicting goals, and choosing among alternatives whose outcomes are uncertain. Prerequisite: Psy 200. [CHANGE NUMBER FROM 210, TITLE AND DESCRIPTION]
Psy 310 PSYCHOLOGY OF WOMEN (3)
Review and evaluate assumptions underlying psychological research on women. Survey the research in areas such as the development of sex differences, acquisition of gender roles and maintenance of gender stereotypes. Explore the pertinence of these findings to topical areas such as women’s work roles, women and mental health, and the women’s movement. Prerequisite: 3 credits in psychology. [CHANGE NUMBER FROM 470/570, DESCRIPTION AND PREREQUISITES]

Psy 311 HUMAN DEVELOPMENT (3)
Development of the individual across the life-span, from conception to death. Surveys the biological bases and social contexts of developmental processes (e.g., cognitive, social, emotional development). Implications of research for education, parenting/family relations, and social policy. Prerequisites: Psy 200 and 204. [CHANGE DESCRIPTION AND PREREQUISITES]

Psy 321 RESEARCH METHODS IN PSYCHOLOGY (3)
Prerequisites: Mth 243 and 3 credits in psychology. [CHANGE TITLE AND PREREQUISITES]

Psy 342, 343 SOCIAL PSYCHOLOGY (3, 3)
Analysis of the psychological and sociological processes in social interaction and in various forms of group behavior. Particular attention to social cognition, roles, and to group origins, functions, ideology, membership, and leadership. Prerequisites: Soc 204, 205, or Psy 200 or 204. Psy 342 is prerequisite for Psy 343. Credit will not be given for both Soc 342 and Psy 342, or both Soc 343 and Psy 343. [CHANGE NUMBER FROM 334, 335 AND DESCRIPTION]

Psy 345 MOTIVATION (3)
A course on the causes for acquiring, choosing, or persisting in specific actions within specific circumstances. Students review the conditions, principles, and theories of motivation. Prerequisite: Psy 200 or 204. [CHANGE DESCRIPTION AND PREREQUISITES]

Psy 347 PERCEPTION (3)
Introduction to the principles and theories of visual and auditory perception. Topics include sensory pathways, color perception, perceptual illusions, and the role of knowledge and cognitive factors in perception. Prerequisite: Psy 200. [CHANGE DESCRIPTION AND PREREQUISITE]

Psy 348 COGNITION (3)
Processes by which we form representations of reality, and strategies we use for manipulating those representations in order to explore possible actions and outcomes. Includes topics in perception, attention, memory, imagery, language, comprehension, problem solving, creative thinking, judgment, reasoning, and decision making. Prerequisite: 3 credits in 200-level psychology. [CHANGE TITLE AND DESCRIPTION]
Psy 360 INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY (3)

The scientific study of human behavior in work settings, covering the
adjustments people make to the places they go, the people they meet, and the
things they do in their occupational activities of all types. Prerequisite: Psy
200 or 204. [CHANGE NUMBER FROM 446, TITLE, DESCRIPTION AND
PREREQUISITE]

Psy 427/527 HISTORY AND SYSTEMS OF PSYCHOLOGY (3)

A survey of the history of psychology and of past and current theoretical
approaches in psychology. Study of the historical roots of current theories in
perception, learning, motivation, personality and other fields. Prerequisite:
at least 18 credits in psychology. [CHANGE TITLE, DESCRIPTION AND ADD
GRADUATE CREDIT]

Psy 434/534 INTRODUCTION TO PSYCHOPATHOLOGY (3)

Course content will survey the development of modern ideas of mental illness,
the origins of mental illnesses, the diagnostic system and the clinical
syndromes, and methods of treatment of neuropsychiatric disorder. This
course does not produce diagnosticians of mental illness but is a preparation
for the clinical study of diagnosis. Prerequisites: Psy 200, 204 and at least 6
additional credits in psychology. [CHANGE TITLE, DESCRIPTION, PREREQUISITES
AND ADD GRADUATE CREDIT]

Psy 440/540 GROUP PROCESS (3)

A course on the psychology of small groups. Topics will include but not be
limited to: interpersonal attraction, stages of group development, group
structure, coalition formation, personal power, leadership, group decision
making and problem solving, intergroup relations and the principles of
negotiation. Prerequisite: graduate standing or consent of instructor.
[CHANGE NUMBER FROM 580, DESCRIPTION, PREREQUISITE AND ADD
UNDERGRADUATE CREDIT]

Psy 447/547 PERSONNEL PSYCHOLOGY (3)

How individual differences affect work behavior and task performance and
how psychologists measure and predict such differences. Covers the
development, administration, and utility of modern instruments for selection
and appraisal. Data combination strategies and decision making in personnel
systems are discussed. Prerequisites: Mth 243 and 244, Psy 321 and 360.
[CHANGE TITLE, DESCRIPTION, PREREQUISITES AND ADD GRADUATE CREDIT]

Psy 448/548 PSYCHOLOGY OF WORK MOTIVATION (3)

Examination of the role that motivation plays in initiating, guiding, and
maintaining work behavior. Assessment of research methods and results in
relation to current theories and their organizational applications.
Prerequisites: Mth 243 and 244, Psy 321 and 360. [CHANGE TITLE, DESCRIPTION,
PREREQUISITES AND ADD GRADUATE CREDIT]

Psy 449 SURVEY OF HUMAN FACTORS (3) [CHANGE TITLE]

Psy 451/551, 452/552 PHYSIOLOGICAL PSYCHOLOGY (4, 4)

Prerequisites: either Psy 345, 346, 347 or 348 and 4 hours of biology. [CHANGE
NUMBER FROM 351, 352, TITLE, PREREQUISITES AND ADD GRADUATE CREDIT]
Psy 454, 455 EXPERIMENTAL PSYCHOLOGY (4, 4)
Prerequisites: at least 12 credits in psychology including Psy 321 and at least one of the following: Psy 345, 346, 348; 3 credits of statistics. [CHANGE CREDIT HOURS FROM 3, 3 TO 4, 4 AND PREREQUISITES]

Psy 460/560 CHILD PSYCHOLOGY (3)
Development of the individual from conception through childhood. Theory and research pertaining to child development. Prerequisites: Psy 311 plus 3 credits in courses numbered Psy 321 or above. [CHANGE DESCRIPTION AND PREREQUISITES]

Psy 461/561 PSYCHOLOGY OF ADOLESCENCE AND EARLY MATURITY (3)
Development of the individual from puberty to early adulthood. Theory and research pertaining to adolescent development. Prerequisites: Psy 311 plus 3 credits in courses numbered Psy 321 or above. [CHANGE DESCRIPTION AND PREREQUISITES]

Psy 462/562 PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (3)
Development of the individual from early adulthood through old age. Theory and research focusing on adult development from a life-span perspective. Prerequisites: Psy 311 plus one of the following: Psy 459, 460, or 461. [CHANGE DESCRIPTION AND PREREQUISITES]

Psy 464/564 DEVELOPMENTAL PSYCHOPATHOLOGY (3)
Study of the origins and course of individual patterns of behavioral adaptation and maladaptation. Application of developmental principles to an understanding of social, emotional, and conduct disorders of children and their outcome in adult life. Prerequisites: Psy 434 plus 6 credits in courses numbered Psy 459-461. [CHANGE TITLE, DESCRIPTION AND PREREQUISITES]

Psy 495/595 PSYCHOLOGICAL TEST CONSTRUCTION (3)
Problems and methods in the construction of tests for the measurement of psychological variables. The issues of reliability, validity, item analysis, standardization will be studied. Students learn about the development of a psychological scale by participation in all facets of actual test construction. Prerequisites: Psy 321 plus 9 additional credits of psychology. Psy 433 and Mth 244 are recommended. [CHANGE NUMBER FROM 421/521 AND DESCRIPTION]

Psy 498/598 FIELD OBSERVATION METHODS (3)
Prerequisites: Psy 321, plus 9 upper division credits in psychology. [CHANGE NUMBER FROM 518, PREREQUISITES AND ADD UNDERGRADUATE CREDIT]

Psy 533/633 CONTEMPORARY SOCIAL PSYCHOLOGY (3)
Current knowledge of social psychology presented with an emphasis on what the field can contribute to understanding contemporary social problems and issues. Major topics will include the nature of social interaction, the relationship of attitude and behavior, and group processes. Areas of application will include social helping networks and the relationships of social psychology to law, health, and the environment. Prerequisite: admission to a graduate program in psychology, systems science, or urban affairs. [CHANGE NUMBER FROM 534, DESCRIPTION, PREREQUISITES, AND ADD DOCTORAL CREDIT]
Psy 535/635 ORGANIZATIONAL PSYCHOLOGY (3)
Survey of organizational psychology with an emphasis on the contribution psychological knowledge can make to the design and change of organizations. Organizational assessments, strategies for planned change, the use of group processes in bringing about change, and the evaluation of planned change. Prerequisite: graduate status in psychology or urban studies. [CHANGE DESCRIPTION AND ADD GRADUATE CREDIT]

Psy 206 PSYCHOLOGY AS A NATURAL SCIENCE: LABORATORY (1) [DROP]
Psy 313 PSYCHOLOGY OF PLAY (3) [DROP]
Psy 456 EXPERIMENTAL PSYCHOLOGY (3) [DROP]
Psy 463/563 PSYCHOLOGY OF EXCEPTIONAL CHILDREN (3) [DROP]
Psy 466 METHODS OF PSYCHOLOGICAL RESEARCH WITH CHILDREN (3) [DROP]
Psy 511 SEMINAR IN DEVELOPMENTAL PSYCHOLOGY (3) [DROP]
Psy 515, 516, 517 ADVANCED GENERAL PSYCHOLOGY (3, 3, 3) [DROP]
Psy 522 DIAGNOSTIC PSYCHOLOGICAL TESTING (4) [DROP]
Psy 523 ACADEMIC AND VOCATIONAL ASSESSMENT (3) [DROP]
Psy 525 WECHSLER INTELLIGENCE SCALES: CHILD AND ADULT (4) [DROP]
Psy 526 INTELLECTUAL ASSESSMENT OF YOUNG CHILDREN (3) [DROP]
Psy 530 FOUNDATION OF CLINICAL PSYCHOLOGY (3) [DROP]
Psy 531 ADVANCED SEMINAR IN PSYCHOTHERAPY (3) [DROP]
Psy 575 GROUP PROCESS (3) [DROP]
Psy 583 PSYCHOPATHOLOGY (3) [DROP]

Sociology

Soc 342, 343 SOCIAL PSYCHOLOGY (3, 3)
Analysis of the psychological and sociological processes in social interaction and in various forms of group behavior. Particular attention to social cognition, roles, and to group origins, functions, ideology, membership, and leadership. Prerequisites: Soc 204, 205 or Psy 204, 205. Soc 342 is prerequisite for Soc 343. Credit will not be given for both Soc 342 and Psy 342, or both Soc 343 and Psy 343. [CHANGE NUMBER FROM 334, 335 AND DESCRIPTION]

Speech Communication

SpHr 199 SPECIAL STUDIES (Credit to be arranged) [NEW]
SpHr 399 SPECIAL STUDIES (Credit to be arranged) [NEW]
SpHr 401/501 RESEARCH (Credit to be arranged) [NEW]
SpHr 404/504 COOPERATIVE EDUCATION/INTERNSHIP (Credit to be arranged) [NEW]
SpHr 405/505 READING AND CONFERENCE (Credit to be arranged) [NEW]
SpHr 407/507 SEMINAR (Credit to be arranged) [NEW]
SpHr 408/508 WORKSHOP (Credit to be arranged) [NEW]
SpHr 409/509 PRACTICUM (Credit to be arranged) [NEW]
SpHr 410/510 SELECTED TOPICS (Credit to be arranged) [NEW]
SpHr 503 THESIS (Credit to be arranged) [NEW]
SpHr 262 VOICE AND DICTION (4) [CHANGE PREFIX FROM Sp]
SpHr 380 INTRODUCTION TO NORMAL SPEECH AND LANGUAGE DEVELOPMENT IN CHILDREN (3) [CHANGE PREFIX FROM Sp]
SpHr 384 SPEECH SOUND DISORDERS (1) [CHANGE PREFIX FROM Sp]
SpHr 386 ARTICULATORY/PHONOLOGICAL DISORDERS (3) [CHANGE PREFIX FROM Sp]
SpHr 389 SIGN LANGUAGE: THEORY AND PRACTICE (3) [CHANGE PREFIX FROM Sp]
SpHr 461/561 ADVANCED SPEECH AND HEARING SCIENCE (3) [CHANGE PREFIX FROM Sp]
SpHr 467/567 AUDIOLOGICAL REHABILITATION CLINIC (3) [CHANGE PREFIX FROM Sp]
SpHr 486/586 URBAN LANGUAGE CLINIC (3) [CHANGE PREFIX FROM Sp]
SpHr 490/590 AURAL REHABILITATION, SPEECH-READING AND AUDITORY TRAINING (3) [CHANGE PREFIX FROM Sp]
SpHr 493/593 SURVEY OF SPEECH, LANGUAGE, AND HEARING DISORDERS (3) [CHANGE PREFIX FROM Sp]
SpHr 560 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3) [CHANGE PREFIX FROM Sp]
SpHr 562 INSTRUMENTATION IN SPEECH AND HEARING SCIENCES (2) [CHANGE PREFIX FROM Sp]
SpHr 563 BEHAVIOR MODIFICATION OF SPEECH AND LANGUAGE (3) [CHANGE PREFIX FROM Sp]
SpHr 570 ELECTROPHYSIOLOGICAL EVALUATIONS (3) [CHANGE PREFIX FROM Sp]
SpHr 571 ANATOMY AND PHYSIOLOGY OF THE AUDITORY SYSTEM (3) [CHANGE PREFIX FROM Sp]
SpHr 572 PSYCHOACOUSTICS (3) [CHANGE PREFIX FROM Sp]
SpHr 573 FORENSIC AUDIOLOGY (3) [CHANGE PREFIX FROM Sp]
SpHr 574 IMMITTANCE AUDIOMETRY (3) [CHANGE PREFIX FROM Sp]
SpHr 575 PEDIATRIC AUDIOLOGY (3) [CHANGE PREFIX FROM Sp]
SpHr 576 GERIATRIC AUDIOLOGY (3) [CHANGE PREFIX FROM Sp]
SpHr 577 EDUCATIONAL AUDIOLOGY (3) [CHANGE PREFIX FROM Sp]
SpHr 578 MEDICAL AUDIOLOGY (3) [CHANGE PREFIX FROM Sp]
SpHr 579 HEARING AIDS (4) [CHANGE PREFIX FROM Sp]
SpHr 580 NORMAL SPEECH AND LANGUAGE DEVELOPMENT IN CHILDREN (3) [CHANGE PREFIX FROM Sp]
SpHr 581 STUTTERING (3) [CHANGE PREFIX FROM Sp]
SpHr 582 VOICE DISORDERS (3) [CHANGE PREFIX FROM Sp]
SpHr 583 CLINICAL PROCEDURES IN SCHOOL AND MEDICAL SETTINGS (3) [CHANGE PREFIX FROM Sp]
SpHr 591 STUDENT TEACHING: SPEECH-LANGUAGE PATHOLOGY (12) [CHANGE PREFIX FROM Sp]
SpHr 592 SEMINAR: STUDENT TEACHING IN SPEECH-LANGUAGE PATHOLOGY (3) [CHANGE PREFIX FROM Sp]
SpHr 370 PHONETICS (4)
Prerequisite: SpHr 262. [CHANGE PREFIX, NUMBER FROM 270 AND ADD PREREQUISITE]
SpHr 371 FUNDAMENTALS OF SPEECH AND HEARING SCIENCE (3)
Prerequisite: SpHr 262. [CHANGE PREFIX, NUMBER FROM 271 AND ADD PREREQUISITE]
SpHr 487/587 BASIC AUDIOLOGY (4) [CHANGE PREFIX, NUMBER FROM 387 AND ADD GRADUATE CREDIT]
SpHr 488/588 ADVANCED AUDIOLOGY (3) [CHANGE PREFIX, NUMBER FROM 388 AND ADD GRADUATE CREDIT]
SpHr 494/594 INTRODUCTION TO COMMUNICATION DISORDERS (3)
Prerequisite: SpHr 370. [CHANGE PREFIX, NUMBER FROM 381, PREREQUISITE AND ADD GRADUATE CREDIT]
SpHr 495/595 ORGANIC COMMUNICATION DISORDERS (3)
Prerequisite: SpHr 371. [CHANGE PREFIX, NUMBER FROM 382, PREREQUISITE AND ADD GRADUATE CREDIT]

SpHr 496/596 SPEECH-LANGUAGE PATHOLOGY (METHODS) (3)
Prerequisite: SpHr 494/594. [CHANGE PREFIX, NUMBER FROM 383, PREREQUISITE AND ADD GRADUATE CREDIT]

SpHr 497/597 PROGRAMMED CLINICAL MANAGEMENT (3)
Prerequisite: SpHr 496/596. [CHANGE PREFIX, NUMBER FROM 385, PREREQUISITE AND ADD GRADUATE CREDIT]

SpHr 498/598 SPEECH-LANGUAGE PRACTICUM (4)
Prerequisites: SpHr 386, 496/596, 497/597. [CHANGE PREFIX, NUMBER FROM 487/587 AND PREREQUISITES]

SpHr 584 ASSESSMENT AND TREATMENT OF LANGUAGE DISORDERS: BIRTH TO AGE FIVE (3)
This course outlines evaluation and management procedures for addressing developmental language disorders in infants, toddlers, and preschool children. Formal and informal assessment techniques will be covered. Uses and misuses of standardized tests will be discussed. Models of language disorders will be compared and contrasted. Speech Sample analysis procedures will be studied. Pragmatic intervention techniques will be stressed. Relations between language and phonology and multicultural issues will also be included. Prerequisite: SpHr 580. Corequisite: SpHr 584L. [CHANGE PREFIX, TITLE, DESCRIPTION AND ADD CO-REQUISITE]

SpHr 584L LANGUAGE DISORDERS LABORATORY (3)
Provides students with an opportunity to apply methods covered in Sp 584 to a practicum experience. Students will evaluate language skills, design, and deliver language intervention, under faculty supervision, to preschool language-delayed clients. Pragmatic interventions strategies will be stressed. Prerequisite: SpHr 580. Corequisite SpHr 584 or permission of instructor. [CHANGE PREFIX, DESCRIPTION, PREREQUISITES AND DIVIDE LAB INTO TWO (585L)]

SpHr 585 ASSESSMENT AND TREATMENT OF LANGUAGE DISORDERS IN SCHOOL AGED CHILDREN AND ADOLESCENTS (3)
This course outlines assessment and treatment methods for addressing developmental language disorders in children aged six through adolescence. Formal and informal assessment techniques will be covered. The relations between language disorders and learning disabilities will be discussed. Alternative service delivery models and pragmatic intervention strategies will be presented. Multicultural issues will also be addressed. Prerequisites: SpHr 580, 584. [CHANGE PREFIX, TITLE AND DESCRIPTION]

SpHr 585L INTEGRATED LANGUAGE SERVICES IN SCHOOLS (3)
Provides students with an opportunity to deliver language intervention to school aged clients in classroom settings. The practicum will emphasize developing language remediation activities based on school curricula, working in mainstream settings rather than one-to-one therapy, and integrating reading and writing with oral language skill development. Prerequisites: SpHr 580, 584, 584L. Corequisite: SpHr 585. [CHANGE PREFIX, DESCRIPTION AND PREREQUISITES]
WS 310 PSYCHOLOGY OF WOMEN (3)
Review and evaluate assumptions underlying psychological research on women. Survey the research in areas such as the development of sex differences, acquisition of gender roles and maintenance of gender stereotypes. Explore the pertinence of these findings to topical areas such as women's work roles, women and mental health, and the women's movement. Prerequisite: 3 credits in Psychology. [NEW CO-LISTING]

WS 467 WORK AND FAMILY (3)
An examination of the effects of work on family, and family on work, in contemporary society. Includes study of dual-career and dual-work families, effects of maternal employment on children, impact of child care and elder care on the workplace, and parental leave and other workplace supports for families. Implications of research for social policy. Prerequisites: Psy 311 and 3 credits in courses numbered Psy 321 or above. [NEW CO-LISTING]

WS 479 WOMEN AND ORGANIZATIONAL PSYCHOLOGY (3)
Examines the relationship between gender and the social organization of the workplace. Focus is on gender development as socialization (e.g. hierarchy and leadership, discrimination and harassment, deskilling) from a social psychological perspective. Strategies for change are considered. Prerequisites: Psy 310 and 3 additional credits in courses numbered Psy 330 or above. [NEW CO-LISTING]
SCHOOL OF ENGINEERING AND APPLIED SCIENCE

Computer Science

CS 555, 556 SOFTWARE LIFECYCLE (3)
Theoretical and formal aspects of the software development process, or software "lifecycle," which includes requirements definition, software specification, program design, implementation (coding), program testing, and subsequent maintenance. CS 555 will emphasize specifications and verification. CS 556 will emphasize program testing. The dividing line between the courses is drawn midway through the program-design phase: CS 555 covers the "abstract" aspects that derive from specification, and CS 556 the coding aspects that are used to guide implementation. Although it is recommended that students take the courses in sequence, CS 555 is not prerequisite to CS 556. [NEW]

Mechanical Engineering

ME 458/558 PRINCIPLES OF CNC MACHINING (3)
A study of principles of machining, tool path generation and analytic geometry, part design and programming, integration of CAD/CAM software, structure and control of CNC machines, and introduction to Computer-Integrated-Manufacturing. Prerequisite: ME 241 and senior standing in mechanical engineering. [NEW]

ME 588/688 DESIGN OF INDUSTRIAL EXPERIMENTS (3)
This course represents the statistical basis of industrial experimentation used in process improvement. The course emphasizes the importance of the design of the data collection scheme such that the experimental noise is reduced with minimum investment. Topics to be discussed include: randomization and blocking, analysis of variance, factorial designs, fractional factorial designs, and evolutionary operations. Prerequisite: Mth 459. [NEW]

Tabled at November Faculty Senate meeting:

SYSTEMS SCIENCE

SySc 535, 536 TECHNOLOGICAL FORECASTING I, II (3, 3) [DROP]
SySc 537 TECHNOLOGY ASSESSMENT (3) [DROP]
SySc 591 FUTURES SEMINAR (3) [DROP]
On Dec. 2, the Curriculum Committee will recommend remaining undergraduate course and program changes (mostly from CLAS) which could not be presented at the Nov. 4 meeting. The main part of "G1" only lists course descriptions and proposed course changes. Undergraduate program proposals are briefly summarized on this sheet, but the full proposals can be consulted in the notebook Faculty Senate Program Changes available in the Reserve Library.

Here are the UCC's recommendations for undergraduate curricular changes affecting the 1992-93 PSU Bulletin/Catalogue.

COLLEGE OF LIBERAL ARTS AND SCIENCES:

--APPLIED LINGUISTICS: 3 new courses and 1 course change.
--BLACK STUDIES: two course-prerequisite changes.
--ECONOMICS: 3 course changes, 7 course drops.
--ENGLISH: (1) changes in the BA English Major to require a 300-level general course, to require coursework in specified categories (Shakespeare, American Lit., British Lit.), to reduce the requirement for upper division pre-1800 literature, to remove exclusions on Creative Writing courses, and to add a mechanism for approving interdisciplinary study; and (2) related new course and course changes.
--FOREIGN LANGUAGES: (1) modification of the BA in a Foreign Language to reflect particular difficulties for the learning of Russian; and (2) one new course sequence.
--GEOGRAPHY: 3 new courses and 5 course changes.
--GEOLOGY: changes in the BA/BS Geology Major to reflect course changes and faculty specializations in the department (net increase of 1 credit); (2) related modifications in the Geology Minor.
--HISTORY: 2 new co-listings, 1 new course, and 1 change.
--MATHEMATICAL SCIENCES: 2 course changes.
--PHILOSOPHY: 2 new courses, Phil 310 and Phil 311
--PHYSICS: (1) changes in BA/BS Major, primarily adding an Environmental Physics option; (2) 1 new course, and 3 course changes.
--PSYCHOLOGY: extensive changes in BA/BS Major requirements with increased emphasis on applied psychology, coursework in 3 of 4 "areas," increased methods and advanced course requirements (net increase in total requirement, 1 hour); (2) extensive new courses, course changes, and dropped courses listed in "G1."
--SOCIOLOGY: 1 course change.
--SPEECH COMMUNICATION: (1) creation of a separate "SpHr" prefix for Speech and Hearing Science courses; (2) 9 course changes.
--WOMEN'S STUDIES: 3 new co-listings.

SCHOOL OF ENGINEERING AND APPLIED SCIENCE:

--COMPUTER SCIENCE: the proposed, new Minor in Computer Science.
November 15, 1991

TO: Rick Hardt, Secretary
Faculty Senate

FROM: Eileen Brennan, Chair
Graduate Council

RE: Program Changes Approved by Graduate Council
October 18 and October 25, 1991

The following program changes were approved in the College of Liberal Arts and Sciences:

**MA English:**
Three tracks will be available for the MA: the non-thesis option, emphasizing general coverage of literary material; the critical thesis option, with specialized scholarly research; and the creative thesis option, offering an opportunity to focus on creative writing skills.

**MA/MS Geology**
Program change for the master's program in geology simply reflects the change in the numbering system to 500/600 for graduate courses.

**MAT/MST Mathematics**
Revise the MAT/MST course requirements and eliminate the written comprehensive exams.

The following program change was approved in Education:\n
**Standard Certification**
The TSPC authorization for Portland State to offer the standard certification program expired in August 1991. Portland State and other state institutions were granted emergency approval through December 1991. University approval is required to offer standard certification past this date.

The following program changes were approved in Urban and Public Affairs:

**MPA Public Administration** and Public Administration: Health Administration
Changes are a product of an accreditation review by the National Association of Schools of Public Affairs and Administration. No new courses are added. One course, Intergovernmental Relations, is eliminated, and two, rather than only one, analytical courses are now required. The Integrative Seminar PA 507 is replaced with a discrete number, PA 512.

The following program change was approved in Fine and Performing Arts:

**MFA Masters of Fine Arts**
Drop the Ceramics option (eliminated by the Transition Team in the wake of Ballot Measure 5), from the MFA, and change the title of the painting option to the Masters of Fine Arts in drawing/painting/printmaking. The MFA in sculpture remains the same. The change more accurately reflects the existing study options within the concentration.

The following program change was approved in Health and Human Performance:

**MAT/MST in Exercise Science and Sports Studies**
Due to the elimination of the program and the large number of students required to complete the degree during the 1990-91 academic year, the one hour oral examination was eliminated, and the written exams were changed from 2 to 3 hours.
Timeline for Action on Diversity Course List

November 19 - Request for input on criteria statement goes to departments.

December 2 - 6 - Responses on criteria statement come back from departments to the ARC.

December 19 - Draft criteria statement prepared by ARC

December 20-27 - Draft criteria statement distributed

January 13 - ARC to take public testimony on criteria statement at open meeting 2-3p.m., CH 150.

Faculty Senate to review criteria statement at regular monthly meeting.

January 16 - ARC to take public testimony on criteria statement at open meeting 3-4p.m., CH 150.

January 21 - Criteria statement sent to departments with request that courses proposed for inclusion on the Diversity list be submitted to the ARC by February 3, 1992.

February 3 - Courses proposed by departments for Diversity list due at the ARC. Faculty Senate reviews final criteria statement.

February 6 - ARC generates draft list of courses for the Diversity Requirement.

February 7 - Draft list of courses posted and distributed to departments.

February 14 - ARC hears appeals to listings.

*February 17 - Special Faculty Senate Meeting to consider final list of Diversity courses.

*Tentative Date