Faculty Senate Monthly Packet December 1990

Portland State University Faculty Senate

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MEMORANDUM

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 3, 1990, at 3:00 p.m. in 150 Cramer Hall.

AGENDA

A. Roll

B. Approval of the Minutes of the November 5, 1990, Meeting
   President's Report -- Ramaley

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. Curriculum Committee, Annual Report -- Holloway
   *2. Graduate Council, Annual Report -- Edner
   *3. Library Committee, Annual Report -- West
   *4. Scholastic Standards Committee, Annual Report -- Wrench

F. Unfinished Business -- none

G. New Business
   *1. Proposed Course and Program Changes, Curriculum Committee and Graduate Council -- Holloway, Brennan
   *2. ARC Recommendation re Recognition of IB Diploma -- Maynard

H. Adjournment

*The following documents are included with this mailing:
B Minutes of the November 5, 1990, Senate Meeting*
E1 Curriculum Committee, Annual Report**
E2 Graduate Council, Annual Report**
E3 Library Committee, Annual Report**
E4 Scholastic Standards Committee, Annual Report**
G1 Proposed Course and Program Changes, Curriculum Committee and Graduate Council**
G2 ARC Recommendation re Recognition of IB Diploma**

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

Minutes: Faculty Senate Meeting, December 3, 1990
Presiding Officer: Sheldon Edner
Secretary: Ulrich H. Hardt


Alternates Present: Schaumann for Casperson, Julnes for Ellis, Gurtov for Goucher, Petrie for McElroy.

Members Absent: Finley, Manning, Weikel.

Ex-officio Members Present: Erzurumlu, Hardt, Holland, Mackey, Martino, Miller, Paudler, Pfingsten, Ramaley, Reardon, Savery, Schendel, Sheridan, Tang, Ward.

APPROVAL OF THE MINUTES

Provost MARTINO announced his resignation effective January 1, 1991; he will retain the title until June 31. He will be on executive loan to the National Association of State Universities and Land Grant Colleges.

MARTINO talked about his three-and-a-half years at PSU, during a deteriorating climate, and his efforts on behalf of academic programs. With President Ramaley the University has a fresh start, he said, and he deserves a fresh start too.

The Senate gave the Provost a round of applause.

PRESIDENT'S REPORT

1. RAMALEY expressed her personal thanks to Martino for his service to PSU and for his counsel, help and wit during the transition period. She emphasized that the University will continue to profit from his work at NASULGC over the next six months.

RAMALEY announced the appointment of Robert Frank as acting provost. Frank is chairperson of the OSU English Department and for nine months was OSSHE Acting Vice Chancellor for Academic
Affairs. He has also been acting dean of the OSU College of Liberal Arts. RAMALEY reviewed some of Bob Frank's vita and academic accomplishments and talked about the good match he was for PSU.

A national search for provost will begin in January. The Advisory Council will propose faculty names for the search and campus screening committees. The Senate Steering Committee and the Advisory Council will constitute a faculty transition team, to be chaired by Jim Heath.

2. The President reported on a number of projects of the fall term (see attached list):

a. Formation of a Commission on the Status of Women, chaired by B. Oshika. This is a recommendation of the American Council on the Education of Women, which was chaired by Judith Ramaley.

b. Formation of the Strategic Planning Committee and its nine sub-committees.

c. Action Committee to Implement PSU's Plan for Diversity and its five sub-committees that are setting up a series of specific actions.

d. Committee on Institutional Climate and Tone which is due to report in the middle of Winter term 1991.

e. NCAA Self-study of Intercollegiate Sports.

f. Ad hoc Committee to Review Parking Issues.

g. Implementation of the new promotion and tenure guidelines.

h. Review of all administrative committees before April. RAMALEY said she does not like the committee world and prefers working groups on specific and real projects.

3. RAMALEY reported having received requests for reconsideration of E-Board money distribution. She explained that the order of appeals is outlined in the guidelines: dean, provost, president, non-contractual grievance. She expressed hope that all salary adjustments would be completed by Christmas.

REPORTS FROM OFFICERS OF ADMINISTRATION AND COMMITTEES

1. HOLLOWAY presented the annual report of the Curriculum Committee and highlighted the item on cross-listing and slash-listing of courses. The committee also discussed the uses of '+'s and '-'s in the grading system but did not reach consensus on the matter;
it recommends a faculty-wide survey and turned the matter over to EPC.

2. EDNER presented the annual report of the Graduate Council and circulated an addendum to the report (see attached). BRENNAN reported that the council favored the use of +'s and -'s in grading and had passed that information to EPC. LALL said that EPC had considered the issue but had put it on hold, awaiting further research and a directive from the Senate. BRENNER moved "that EPC continue to discuss the grading options of + and - for undergraduate and graduate courses and bring recommendations to the Faculty Senate."

The motion was passed.

3. WEST presented the Library Committee annual report. He recalled comments by President Ramaley that a high priority of hers was the building of a good, major research library without which not much can be accomplished. He said that Pfingsten had brought that to the attention of the Governor's Commission. WEST emphasized the importance of honesty in requesting library support for new programs. The library addition should be finished in February, and plans for a dedication are being made. COOPER and A. JOHNSON asked if the new library will solve our problems of shelf space. Will we be able to get all of our books out of boxes? PFINGSTEN said that the situation will be improved considerably. The shelf capacity will be for 1 million volumes. The floor space is increased by 45 percent, but the shelf space increase is somewhat less than that, since there are now wider aisles for handicapped access. Stored items with low usage will stay stored, since we do not want to fill up all shelves. Finally, WEST reported user satisfaction.

4. WRENCH presented the annual report of the Scholastic Standards Committee.

NEW BUSINESS

1. Speaking for the Curriculum Committee, HOLLOWAY recommended approval of the two proposed program changes: B. S. program in Computer Science, and the B.A./B.S. degrees in Music.

A. JOHNSON moved "approval of the proposed program changes."

The motion was passed.

HOLLOWAY recommended approval of course proposals and changes in CLAS and the professional schools.

A. JOHNSON moved "approval of all CLAS course proposals."
The motion was passed.

A. JOHNSON moved "approval of all course proposals from the professional schools."

The motion was passed.

2. Speaking for the Graduate Council, BRENNAN recommended approval of all proposed graduate course and program changes.

SETTLE presented the following changes for two business courses, and the changes were accepted:

a. FinL 535 CORPORATE FINANCIAL MANAGEMENT (3)
   Change "Prerequisites: Actg 511, Ec 513 or concurrently" to "Prerequisites: Ec 513 or taken concurrently; Actg 511"

b. Actg 553 FINANCIAL STATEMENT ANALYSIS (3)
   Change "Prerequisite: FinL 543" to "Prerequisite: FinL 535"

LENDARIS said that the following two courses should be added to Systems Science (p. 14), and the additions were accepted:

a. SySc 575 (same description as EE 455/555 -- see p. 12).

b. SySc 576 (same description as EE 456/556 -- see p. 12).

COOPER asked why some chemistry course numbers had been changed to 6XX. BRENNAN said that these were courses taken by doctoral students.

A. JOHNSON moved "to accept all graduate course changes as proposed and amended."

The motion was passed.

A. JOHNSON moved "to accept the proposed program changes in the M.A. in Applied Linguistics, and the M.A. in Foreign Languages."

(The M.A. in TESOL was changed to an M.A. in Applied Linguistics. The changes in Foreign Languages involved dropping the MAT and dropping the M.A. in German and replacing them with an M.A. in Foreign Languages."

The motion was passed.

3. Speaking for the ARC, MAYNARD recommended that PSU recognize the International Baccalaureate (IB) Diploma in the admissions
process. COOPER asked if other universities accept the diploma. MAYNARD said that most of the best universities of the world do.

A. JOHNSON moved "that the Senate approve the ARC recommendation regarding the IB Diploma, as stated in attachment G2."

The motion was passed.

4. LALL reported that the EPC had met and discussed the problems faced by students who were suddenly called to military duty. The committee made the following recommendation by way of clarifying academic policy on grades:

"If the student has completed substantial work for the course at the time of call to active duty, then a grade should be provided based on current standing in the course.

If substantial work is not completed, an incomplete (I) may be assigned. Specific information about requirements for the completion of course work should be left in the departmental office by the instructor.

In either case, students should be given the option of requesting a withdrawal or change of grade through petition if they so desire."

The guidelines were accepted as circulated.

ADJOURNMENT

The meeting was adjourned at 16:10.
OFFICE OF THE PRESIDENT
Monday, December 3, 1990
Faculty Senate Meeting

REPORT ON PROJECTS UNDER WAY

I. Committees/Commissions created

Commision on the Status of Women
Professor Larry Bowlden, Department of Philosophy
Ms. Ardella Clark, Graduate Student
Ms. Denise Morris, Undergraduate Student
Professor Beverstock Oshika, Appl. Ling. (Convenor)
Professor Jean Scholtz, Computer Science
Professor Barbara Sestak, Art Department
Professor Joan Strouse, School of Education
Mr. Thomas Taylor, Secretary-Geology Dept.
Ms. Carol Turner, Clinical Social Worker
Ms. Paulette Watanabe, Grants & Contracts Office
Professor Ann Weikel, Department of History
Professor Ellen West, School of Business
Ms. Barbara Williams, Affirmative Action Office
Professor Norman Wyers, Social Work

Commission Charge: To advise President on ways to create a campus environment that supports and encourages full participation of women in all aspects of campus life...to serve as a catalyst to create a healthy campus climate and to value and promote diversity at Portland State University.

II. Strategic Planning Committee -- to complete its task by June 1, 1991

Mission and Objectives Subcommittee
Dundar Kocaoglu, Chair
William Paudler, Member at Large

Goals and Strategies Subcommittee
Nohad Toulan, Chair

Research, Teaching & Scholarship Task Force
Craig Wollner, Chair

Community Involvement & Service Task Force
William Savery, Chair

Educational Atmosphere Task Force
Johanna Brenner, Chair

External Issues Task Force
Ed Grubb, Chair

Values Task Force
Steve Brenner, Chair

Internal Issues Task Force
Jon Mandaville, Chair

Communications Task Force
Brenda Green, Chair

Committee Charge: To explore and define the meaning and implications of the urban grant university role for PSU.

III. Action teams/working groups

a. Action Committee to Implement PSU's Plan for Diversity

Undergraduate Recruitment and Pre-College Development
Darrell Millner and Morris Holland, Co-Chairs

Undergraduate Retention and Graduation
To be organized by the Provost

Campus Climate and Pluralism
Milton Bennett and Armando Laguardia, Co-Chairs

Graduate Student Recruitment, Retention, and Graduation
James Ward and Bill Savery, Co-Chairs

Resources and Financial Support
Earl Mackey and Regina Borum, Co-Chairs

b. Committee on Institutional Climate and Tone

Professor Sheldon Edner, Chair, Department of Public Administration
Professor Marjorie Enneking, Dept. of Math
Mr. Terry Jones, Employee Assistance Services Enterprises (EASE)
Mr. Armando Laguardia, Director, Affirmative Action
Standing Administrative Committees

The Committee on Committees and Executive Committee will review all Administrative Committees to determine which are necessary and which can be eliminated or consolidated.

C. NCAA Self Study (required under NCAA Guidelines every five years)

Professor Emeritus Zola Dunbar, Athletic Academic Advisor
John Hines, Member of Viking Athletic Association
Professor Bob Jones, Chair, Univ. Athletics Board
Ms. Kari Kockler, Women's Volleyball and Basketball student athlete
Professor Robert Lockwood, Faculty Athletic Rep, ex-officio member, Chair of Self Study
Mr. Roy Love, Assistant to the Pres. for Athletics
Ms. Teri Mariani, Women's Softball Coach
Professor Linda Neklason, School of Health and Physical Education, member of University Athletic Board
Interim Vice President Gary Powell, Finance and Administration

Report Due Date: By NCAA mandate must be in by June 30, 1991

e. Implementation of New Promotion & Tenure Guidelines

1. Professional Development program for faculty
2. Evaluation of Teaching and Service

4. Standing Administrative Committees

The Committee on Committees and Executive Committee will review all Administrative Committees to determine which are necessary and which can be eliminated or consolidated.

Mr. Gary Martin, Director, Personnel Services
Dean James Ward, Committee Chair

Charge to Committee: To develop a scheme for influencing the tone and climate on this campus. At a minimum, it should help create a sense of respect for differences and a desire to learn from each other while thinking of the greater Portland area as a part of our own campus and of our campus as a part of the Portland area.

Report Due Date: Middle of Winter Term, 1991

Mr. Gary Martin, Director, Personnel Services
Dean James Ward, Committee Chair

Ms. Shirley Morrell, Instructor, English as a Second Language
Mr. Stanley Nuffer, Asst. Dir., Audio-Visual Service, Chair of Committee
Ms. Patricia Stenaros, Office Coordinator, CLAS
Mr. Steve Washburn, Chair, Tenants Council, Portland Student Services
Ms. Mary Wetzel, student
Mr. Ernie Winterton, Senior Buyer, Purchasing

Committee Charge: Identify key goals that the University should establish, and recommendations for action that should be taken to achieve those goals.

Report Due Date: By March, 1991

d. Ad Hoc Committee to Review Campus Parking Issues

Appointed by Gary Powell

Ms. Sandra Arnold, Manager, Parking Office, (Advisor)
Ms. Martha Bianca, graduate student
Professor Ken Dueker, Director, Center for Urban Studies
Mr. David Hertz, Director Auxiliary Services (Advisor)
Ms. Milissa Mitchell, student employee, Summer Session

Report Due Date: By NCAA mandate must be in by June 30, 1991

NCAA Self Study (required under NCAA Guidelines every five years)
University Curriculum Committee

ANNUAL REPORT to the Faculty Senate, December 3, 1990

Members:
David Holloway/Eng(Chair) *Hugh Lovell/Econ
Carl Abbott/UPA *Tamara Roth/student
Daphne Allen/Lib Paul Wurm/CESP
David Cox/Ed Hormoz Zarefar/ME
Marek Elzanowski/Mth Randy Zelick/Bio
Catherine Evleshin/Dan (* = through June 1990)
Jack Finley/SSW Consultants:
Dawn Graff-Haight/HPE Linda Devereaux/OAA
David Helman/Phil Mary Ricks-Director/OIRP
Janice Jackson/SBA Nancy Tang-Vice Provost/OAA

Course and Program Review:

The Committee acted on 85 proposals involving 139 courses, including 33 new course numbers and 17 dropped courses. Decisions were reached by consensus. A list of approved courses is appended (subject to minor changes after this report was prepared). The Committee approved 2 program proposals: (1) reorganizing requirements for the B.S.: Computer Science in light of updated and renumbered course offerings; and (2) revising the B.A./B.S.: Music degrees to conform more closely with national curriculum guidelines.

Cross- and Slash-listed Courses:

At its 4 December 1989 meeting the Faculty Senate directed the Committee to discuss "slash-listing" as part of its discussions on "cross-listing" of classes. The Committee devoted considerable time to this issue.

"Cross-listing" occurs when two or more departments share responsibility and perhaps SCH for one course but list that course in the Bulletin and Time Schedule with separate department prefixes. "Slash-listing" occurs when the listings for cross-listed course are combined in the Bulletin (or elsewhere), with departmental prefixes separated by a slash (EXAMPLE: "Eng443/543/WS443,Eng444/544/WS444" for the sequence "British Women Writers").

Cross-listed courses are taught in the graduate program, through DCE, and under inter-institutional arrangements; proposing a single comprehensive policy thus would exceed the Curriculum Committee's jurisdiction.

Nevertheless, the Committee concludes that cross-listing is not a "win-win" way to add new courses for less money. At present, each department's listings must bear separate course reference numbers,

(over)
which in turn create separate Time Schedule listings, class lists, and maintenance forms. Ambiguities arise over responsibility for content, budget, staffing, and scheduling. The Bulletin appears to offer more courses than PSU actually teaches, creating a "truth in advertising" problem. More efficient ways often exist for departments to share courses. (For example, Dept-A can list a Dept-B course as prerequisite to its own courses, or can allow such a course for its own majors.)

In reviewing proposals to cross-list courses, the Committee will expect clear reasons for cross-listing and assurance that other appropriate methods of sharing courses have been considered.

The Committee has adopted for Bulletin purposes the following policy, based on O.S.U.'s practice, for cross-listed courses:

1. Such courses must contain the same numbers, titles, credits, and prerequisites, with prefixes indicating the departments offering the course;

2. Descriptions for such courses must reflect identical content;

3. A distinctive indicator (such as "slash-listing") must indicate clearly (a) that each course is cross-listed and (b) which department is primarily responsible for it; and

4. The Bulletin must state that a cross-listed course may only be taken once

Changes in the grading system:

The committee discussed adding +'s and -'s to the grading system. The Chair (Holloway) met with the chairs of EPC and the Graduate Council. EPC will explore the proposal and present its recommendations to the Senate. The Committee favors a faculty-wide survey of the proposal.

Ex Officio Senate Membership for Curriculum Committee Chair:

For several years the Chair of the Curriculum Committee has not been simultaneously an elected member of the Senate. The current chair usually receives no minutes and must generally seek out information on university or Senate policies affecting the work of the Committee. Last year's chair had to find volunteers to make Senate motions for the Curriculum Committee. The Committee will recommend to the Steering Committee (for later Senate action) that the Constitution be amended to designate as ex officio the chair of the Curriculum Committee and the chairs of other appropriate constitutional Committees.
November 9, 1990

TO:        Rick Hardt, Secretary
           Faculty Senate

FROM:      Sheldon Edner, Chair
           Graduate Council

RE:        1990 Graduate Council Annual Report

I wish to thank the 1990 members of the Graduate Council:

   Eileen Brennan, Bob Casteel, Michael Cummings, Thomas Dieterich,
   Claudine Fisher, Manouchehr Gorji (and Dundar Kocaoglu who replaced
   Gorji while he was on sabbatical), Jack Featheringill, Stan Hillman, Dave
   Krug, Milan Svoboda, Janet Wright

   Appreciation is also extended to consultant C. William Savery and staff member Berni
   Pilip.

Role of the Graduate Council
The Graduate Council is established by the Faculty Constitution and is charged with the
   duties outlined on page 11 of the 1990-91 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.

Degree Proposals
During November 1989, the Graduate Council approved the MS in Public Health degree
   proposal and sent it to the Senate.

Additional Degree Options
The Graduate Council approved the Civil Engineering option in the Environmental Science
   and Resource PhD program.

Degree Changes
The MA/MS degree in Physical Education and Health replaced the MAT/MST in Physical
   Education and Health. The MA/MS became effective Fall 1990 and the MAT/MST will be
   phased out.

The name of the MUP degree, Masters in Urban Planning, was changed to the MURP,
   Masters in Urban and Regional Planning.
Program Changes and Proposals
The Graduate Council approved the vocational rehabilitation option in the educational counseling program (MS in Education).

Program changes were approved in: the gerontology certificate program, Music, Sociology, Systems Science, and the Counseling program in Education.

The Graduate Council reviewed program changes in Applied Linguistics and Foreign Languages. These changes are still pending.

Policy Changes and Recommendations
Upon recommendation of the Office of Graduate Studies, the Graduate Council extended the validity of a course used in a master's degree by one term. As an example, a course taken during the summer of 1985 would be valid through summer of 1992 and would not expire at the end of spring 1992 as per previous policy interpretation.

After analyzing responses of the schools and departments concerning the proposed +/- grading option for graduate courses, the Graduate Council voted in favor of the +/- grading option. The proposal was sent to the Senate with the recommendation that the issue be considered by the Education Policies Committee or the University Planning Council.

The Graduate Council considered the School of Education's request to modify the dissertation requirement. A survey was sent to all deans.

The Graduate Council determined that any departure from the established procedures for the PhD oral defense would be handled by the Vice Provost for Graduate Studies and Research.

Student Representation on the Graduate Council
The Graduate Council recommended to the Faculty Senate that the constitution be amended to include two graduate students on the Graduate Council. One graduate student shall be from the professional schools and the other from an academic field; one shall be a masters student and the other shall be a doctoral student.

Graduate Petitions
The Chair continued the procedure of appointing a revolving subcommittee to read student petitions submitted to the Graduate Council. During the 1989-90 academic year, there were 94 petitions upon which the Graduate Council acted. This is a 13% decrease from the 1988-89 year and a 36% 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 83% of the petitions were approved which corresponds to both the 1987-88 and the 1988-89 approval rates. Seventy petitions, 75% of the total number of 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. The results of the petition activity and analysis for the year are attached.

Future Agenda
The dissertation requirement policy will be reviewed.
## 1989-90 Graduate Council Petition Summary

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<td>INCOMPLETEs</td>
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<td>A1</td>
<td>Waive one year deadline for incompletes</td>
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<tr>
<td>B1</td>
<td>Waive seven year limit on coursework</td>
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<td>C2</td>
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<td>1</td>
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<td>3%</td>
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<td>DISQUALIFICATION</td>
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<td>D1</td>
<td>Rescind disqualification</td>
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<td>D3</td>
<td>Readmission after one year disqualification</td>
<td>4</td>
<td>4</td>
<td>0</td>
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<td>TRANSFER CREDITS</td>
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<tr>
<td>F1</td>
<td>Accept more transfer hours than allowed</td>
<td>13</td>
<td>7</td>
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<td>F4</td>
<td>Accept non-graded transfer credit</td>
<td>6</td>
<td>6</td>
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<td>F6</td>
<td>Waive 12 hr limit for research grad credit</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2%</td>
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<td>REGISTRATION PROBLEMS</td>
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<td>Retroactive registration</td>
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<td>0</td>
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<td>Retroactive withdrawal</td>
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<td>H6</td>
<td>Accept late grade change</td>
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<td>Change grade option retroactively</td>
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<td>J</td>
<td>Reconsider core exams and termination from PhD</td>
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<td>UNIVERSITY LIMITS ON COURSE TYPES</td>
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<td>K2</td>
<td>Waive University limit on omnibus courses</td>
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<td>K4</td>
<td>Waive regulation disallowing correspondence course</td>
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<td>Substitute Re/Data for Foreign Language</td>
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### Number of petitions

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- 1988-89: 108
- 1989-90: 94
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<tr>
<td>A</td>
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<td></td>
<td></td>
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<td>INCOMPLETES</td>
<td>47 42 5 89%</td>
<td>34 29 5 85%</td>
<td>28 24 4 86%</td>
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<tr>
<td>A1</td>
<td>Waive one year deadline for incompletes</td>
<td>47 42 5 89%</td>
<td>34 29 5 85%</td>
</tr>
<tr>
<td>B</td>
<td>SEVEN YEAR LIMIT ON COURSEWORK</td>
<td>23 21 2 91%</td>
<td>23 20 3 87%</td>
</tr>
<tr>
<td>B1</td>
<td>Waive seven year limit on coursework</td>
<td>19 18 1 95%</td>
<td>18 17 1 94%</td>
</tr>
<tr>
<td>B2</td>
<td>Waive 7 year limit on transfer courses</td>
<td>4 3 1 75%</td>
<td>5 3 2 60%</td>
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<td>C</td>
<td>CREDIT LEVELS</td>
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<td>Change from P/NP to grade retroactively</td>
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<td>1 0 1 0%</td>
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<td>DISQUALIFICATION</td>
<td>11 7 4 64%</td>
<td>12 7 5 58%</td>
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<td>Rescind disqualification</td>
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<td>4 2 2 50%</td>
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<td>D2</td>
<td>Extend probation</td>
<td>6 3 3 50%</td>
<td>3 2 1 67%</td>
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<td>D3</td>
<td>Readmission after one year disqualification</td>
<td>3 3 0 100%</td>
<td>2 1 1 50%</td>
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<tr>
<td>D4</td>
<td>Waive minimum enrollment while on probation</td>
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<td>Waive min. enrollment policy for master's exa</td>
<td>2 2 0 100%</td>
<td>1 1 0 100%</td>
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<td>E2</td>
<td>Waive residence req. for 500-level courses</td>
<td>1 1 0 100%</td>
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<td>TRANSFER CREDITS</td>
<td>18 15 3 83%</td>
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<td>F1</td>
<td>Accept more transfer hours than allowed</td>
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<td>F2</td>
<td>Accept reserved credit from another institution</td>
<td>3 3 0 100%</td>
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<td>F3</td>
<td>Reserved Graduate Credit within 45 hrs of BS</td>
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<td>1 1 0 100%</td>
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<td>G</td>
<td>GO FORMS</td>
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<td>G1</td>
<td>Waive deadline for submission of GO-17</td>
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<td>H</td>
<td>REGISTRATION PROBLEMS</td>
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<td>Retroactive registration</td>
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<td>H2</td>
<td>Late Payment of Fees after one term</td>
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<td>Registration problems with By Arrangements</td>
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<td>Register and receive grade for past attended classes</td>
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<td>Accept late grade change</td>
<td>1</td>
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<td>H7</td>
<td>Change grade option retroactively</td>
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<td>PHD &amp; DISSERTATION PROBLEMS</td>
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<td>J3</td>
<td>Reconsider core exams and termination from PhD</td>
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<td>UNIVERSITY LIMITS ON COURSE TYPES</td>
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<td>Waive University limit on omnibus courses</td>
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<td>K3</td>
<td>Waive regulation disallowing correspondence course</td>
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<td>Waive 3-month waiting period to retake exams</td>
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<td>Notes: 100%</td>
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<td></td>
<td>Substitute Re/Data for Foreign Language</td>
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<td>94</td>
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OAA-GS/bp
Page 2
11/15/90
December 3, 1990

TO: Rick Hardt, Secretary
   Faculty Senate

FROM: Eileen Brennan, Chair
       Graduate Council

RE: Addendum
    Graduate Council 1990 Annual Report to Faculty Senate

This addendum to the Graduate Council 1990 Annual Report is necessary because of the inadvertent omission of the following item:

The Graduate Council approved Engineering Management's proposal to increase credit hours from 45 to 51. Two new courses and three course number and description changes were also approved.

In addition, the following items resulted from Graduate Council action since the report was presented:

The Graduate Council has changed the status of the proposed program changes in Foreign Languages and Applied Linguistics from pending to approved. However, special attention was given to the lack of library resources for Spanish and French.

Pending curricular changes have been approved for Chemistry, Arts & Letters, and English.
Library Committee appointments are for the calendar year rather than the academic year as is customary for most other committees. The members of the Committee in 1990 were Candice Goucher (BST), Joyce Petrie (ED), Craig Carr (PS), Mary Sullivan Taylor (BA/MGMT), Jean Murray (ME), and Franklin C. West (HST), Chairperson. Linda Parshall (FL) was also a member of the Committee until fall term when she left on sabbatical leave; she has been replaced by Jean Scholtz (CS). Student members were Pat Erdenberger and Carolyn Lundstrom. C. Thomas Pfingsten, Director of the Millar Library and Jan Marie Fortier, former Assistant Director, regularly participated in the meetings of the Committee, providing much essential information.

Since 1990 was not a legislative year the Committee did not deal deeply with the budgetary allocations for the various departments and schools which basically remained constant from last year.

At the beginning of 1990 there was a heavy turnover in the membership of the Committee, so for several months most meetings concentrated on orienting the new members concerning the functions of the Committee, practical aspects of operating the library, ways in which its operations are evaluated, and how long-range planning is done. We also heard regular reports on the progress of the new construction from the Director, and on expanding uses of computers for various purposes, other than the on-line computer catalog. He also kept the Committee informed of his strong and effective efforts to call to the attention of the Governor's Commission on Higher Education in the Portland Metropolitan Area the necessity for a major research library in this region, and that the Millar Library is the obvious base for such a research library.

As might be expected, members of the Committee raised a variety of topics for discussion. These included the possibility of extending library hours, the lack of multiple copies of books in high demand, why limits have been imposed on orders of new scholarly periodicals, and the impact of inflation and the drop in value of the dollar on many acquisitions. A proposal forwarded by the English Department that all graduate students, not just selected teaching assistants, be given extended borrowing privileges, was considered. The Committee did not oppose the suggestion in principle, but decided that library resources are not now ample enough to support such a change without disadvantaging other users.

Since the start of fall term the chief activity of the Committee has been planning, in association with certain members of the administrative staff, a set of special events to celebrate the official dedication of the new addition to the Millar Library. The dedication will be held sometime in the spring and we hope to have a nationally-recognized speaker for the occasion. Other activities are also planned.

Franklin C. West
Department of History
REPORT OF SCHOLASTIC STANDARDS COMMITTEE

Petitions acted on from November 1989 through October 1990:

<table>
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<tr>
<th>Action</th>
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<tr>
<td>Reinstate</td>
<td>142</td>
<td>99</td>
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<tr>
<td>Admit</td>
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<td>Change registration</td>
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<td>65</td>
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<td>Option change</td>
<td>76</td>
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<td>Extend incomplete</td>
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<td>0</td>
</tr>
<tr>
<td>Grade change after 1 year</td>
<td>13</td>
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</table>

902

A comparison with the report for two years ago will show how the work of the committee is changing. There has been a 17% increase in the number of petitions, with the largest increase being in option changes. Many of these have resulted from the growing practice of departments to require that major courses be taken for a letter grade. Students who have changed majors then request to have previous "pass" work assigned a letter grade. Because of the growing burden which this places on the committee, it might be desirable for individual departments to consider whether they want to offer the "pass-no pass" option on courses primarily intended for majors if they desire the majors to take them for letter grades. The educational policy committee might be the appropriate body to consider policy in this area.

Again in comparison with two years ago, the percentage of petitions approved has declined slightly from 77% to 73%.

Respectfully Submitted,

Elliott Benowitz
Eugene Enneking
Don Howard
Robert Lockerby
Edith Sullivan
Carrol Tama
Marjorie Terdal
DeeAnne Westbrook
David Wrench, Chair
PORTLAND STATE UNIVERSITY
1991-92
New Courses and Course Changes

COLLEGE OF LIBERAL ARTS AND SCIENCES

Applied Linguistics

Ling 435/535 APPLIED LINGUISTICS (3)
An examination of current areas of applied linguistic research. Prerequisite: Ling 390. [CHANGE TITLE, DESCRIPTION AND PREREQUISITE]

Ling 477/577, 478/578, 479/579 TESOL METHODS (3, 3, 3)
Approaches, methods and techniques in teaching English to speakers of other languages. Students are required to tutor, observe, and teach in an approved ESL program. Ling 477/577: emphasis is on macro-level variables and introduction to instructional methodology; Ling 478/578: emphasis is on techniques for teaching listening, speaking, reading, writing and grammar; Ling 479/579: emphasis is on learning across cultures, teaching American culture, and assessment techniques. Courses should be taken in sequence. Previous study equal to at least one class in linguistics is required. [CHANGE DESCRIPTION]

Chemistry

Ch 95 CHEMICAL PRINCIPLES (no credit)
Prerequisite: Mth 95 or equivalent, or concurrent enrollment in Mth 95. [CHANGE NUMBER FROM 100, CREDIT HRS. FROM 4 TO NO CREDIT AND PREREQUISITE]

Ch 170 FUNDAMENTALS OF ENVIRONMENTAL CHEMISTRY (3)
A course designed to increase the scientific knowledge of the non-science major. The interaction between science and society, the nature of matter and chemical reactions. Energy, radiation and nuclear power. [CHANGE NUMBER FROM 140, TITLE, DESCRIPTION AND DIVISION OF SEQUENCE]

Ch 371, 372 ENVIRONMENTAL CHEMISTRY (3, 3)
Current environmental problems. Ch 371: Stratospheric ozone, Greenhouse effect, photochemical smog, particulates, acid rain and trace metals. Ch 372: Water resources, pollution and treatment; oil spills; solid waste disposal; hazardous chemicals and pesticides; noise pollution. Need not be taken in sequence. Prerequisite: one term of college chemistry. [CHANGE NUMBER FROM 141, 142, TITLE, DESCRIPTION AND PREREQUISITE]

Ch 375, 376 ENVIRONMENTAL CHEMISTRY LABORATORY (1, 1)
Optional laboratory work to accompany Environmental Chemistry (Ch 371, 372). For elementary education and non-science majors. Concurrent enrollment in the appropriate lecture course is required. One two-hour laboratory. [CHANGE NUMBER FROM 145, 146, TITLE AND PASS/NO PASS ONLY TO LETTER GRADE]

Ch 401/501 RESEARCH (Credit to be arranged)
Consent of instructor and chair of department. Credit will only be awarded after filing in the department office a well-written, detailed report approved by the instructor and the department head. [CHANGE DESCRIPTION]
Ch 405/505 READING AND CONFERENCE (Credit to be arranged)
Consent of instructor and chair of department. Credit will only be awarded after filing in the department office a well-written, detailed report approved by the instructor and the department head. [CHANGE DESCRIPTION]

Ch 449 INTRODUCTORY BIOCHEMISTRY (3) [DROP]

Ch 450/550, 451/551 BIOCHEMISTRY (3, 3)
A two-term sequence in biochemistry for students having a limited background in physical chemistry. Prerequisite: Ch 217 and 332 or 336. [NEW]

Ch 490/590, 491/591, 492/592 GENERAL BIOCHEMISTRY (3, 3, 3)
Professional biochemistry course for majors. Structure, metabolism and function of the major components of living cells. Prerequisites: Ch 217, Ch 332 or 336, Ch 340 or 442. [CHANGE NUMBER FROM 450/550, 451/551, TITLE AND DESCRIPTION]

Ch 493/593 BIOCHEMISTRY LABORATORY (2)
Laboratory work to accompany Ch 450 or 490. Introduction to general techniques of biochemistry including purification and characterization of enzymes. One 4-hour laboratory period. Prerequisite: Ch 450 or 490 or concurrent enrollment. [CHANGE NUMBER FROM 453/553, DESCRIPTION AND PREREQUISITE]

Ch 494/594, 495/595 BIOCHEMISTRY LABORATORY (2, 2)
Prerequisite: Ch 493. [CHANGE NUMBER FROM 454/554, 455/555 AND PREREQUISITE]

xCh 615 SELECTED TOPICS IN INORGANIC CHEMISTRY (3) [CHANGE NUMBER FROM 515]

xCh 620 SELECTED TOPICS IN ANALYTICAL CHEMISTRY (3) [CHANGE NUMBER FROM 520]

xCh 621 ADVANCED ANALYTICAL THEORY (3) [CHANGE NUMBER FROM 521]

xCh 622 TRACE METAL ANALYSIS (3)
Prerequisites: Ch 320, 321 and 426/526. [CHANGE NUMBER FROM 522 AND PREREQUISITES]

xCh 623 ADVANCED INSTRUMENTAL ANALYSIS (3) [CHANGE NUMBER FROM 523]

xCh 633 ORGANIC SYNTHESIS (3) [CHANGE NUMBER FROM 533]

xCh 634 ADVANCED TOPICS IN ORGANIC CHEMISTRY (3) [CHANGE NUMBER FROM 534]

xCh 635 PHYSICAL ORGANIC CHEMISTRY (3) [CHANGE NUMBER FROM 535]

xCh 660 SELECTED TOPICS IN PHYSICAL CHEMISTRY (3) [CHANGE NUMBER FROM 560]

xCh 661 PHOTOCHEMISTRY (3) [CHANGE NUMBER FROM 561]

xCh 662 CHEMICAL KINETICS (3) [CHANGE NUMBER FROM 562]

xCh 663 CHEMICAL THERMODYNAMICS (3) [CHANGE NUMBER FROM 563]

xCh 664 QUANTUM CHEMISTRY (3) [CHANGE NUMBER FROM 564]
xCh 665 STATISTICAL THERMODYNAMICS (3)
Prerequisite: Ch 648. [CHANGE NUMBER FROM 565 AND PREREQUISITE]

xCh 666 SOLUTION THERMODYNAMICS (3)
Prerequisite: Ch 647. [CHANGE NUMBER FROM 566 AND PREREQUISITE]

xCh 670 ATMOSPHERIC CHEMISTRY (3)
[CHANGE NUMBER FROM 570]

xCh 693 ENZYME STRUCTURE AND FUNCTION (3)
Prerequisite: Ch 492/592. [CHANGE NUMBER FROM 556 AND PREREQUISITE]

xCh 695 ADVANCES IN BIOCHEMISTRY (3)
Prerequisite: Ch 492/592. [CHANGE NUMBER FROM 557 AND PREREQUISITE]

xCh 696 MOLECULAR STRUCTURE AND SPECTRA (3)
[CHANGE NUMBER FROM 567]

English

Eng 411/511, 412/512, 413/513 ENGLISH DRAMA (3, 3, 3)
[CHANGE CREDIT HRS. FROM 3-5, 3-5, 3-5 TO 3, 3, 3]

Eng 426/526, 427/527 MEDIEVAL LITERATURE (3, 3)
[CHANGE CREDIT HRS. FROM 3-5, 3-5 TO 3, 3]

Eng 430/530, 431/531 LITERATURE OF THE RENAISSANCE (3, 3)
[CHANGE CREDIT HRS. FROM 3-5, 3-5 TO 3, 3]

Eng 440/540, 441/541 SEVENTEENTH CENTURY LITERATURE (3, 3)
[CHANGE CREDIT HRS. FROM 3-5, 3-5 TO 3, 3]

Eng 447/547 MAJOR FORCES IN LITERATURE (3)
A study of literary forms, theories, and movements: for example, The Comic Novel, Literature and Theology, Southern American Women Writers. Prerequisites: 15 credits in literature. [CHANGE DESCRIPTION AND CREDIT HRS. FROM 3-4 TO 3]

Eng 448/548 MAJOR FIGURES IN LITERATURE (3)
Concentrated study of the canon of one or more major writers: for example, Chaucer, The Brontes, James Joyce, Hemingway and Fitzgerald. Prerequisites: 15 credits in literature. [CHANGE DESCRIPTION AND CREDITS HRS. FROM 3-4 TO 3]

Eng 450/550, 451/551 EIGHTEENTH CENTURY LITERATURE (3, 3)
[CHANGE CREDIT HRS. FROM 4, 4 TO 3, 3]

Eng 458/558, 459/559 LITERATURE OF THE ROMANTIC PERIOD (3, 3)
[CHANGE CREDIT HRS. FROM 4, 4 TO 3, 3]

Eng 463/563, 464/564, 465/565 AMERICAN LITERATURE 1865-1955 (3, 3, 3)
[CHANGE CREDIT HRS. FROM 3-5, 3-5, 3-5 TO 3, 3, 3]
Eng 474/574 TEACHING HIGH SCHOOL LITERATURE (3)  
Emphasizes methods and materials for the teacher of literature. Prerequisite: admission to the School of Education. May not be used to satisfy any requirements for the BA or MA in English. [CHANGE TITLE AND DESCRIPTION]

Eng 475/575, 476/576 LITERATURE OF THE VICTORIAN PERIOD (3, 3)  
Major Victorian writers in the context of the history, ideas, and culture of the period. 475/575: Earlier Victorian Poetry and Prose—from the 1830's through the high Victorian period. 476/576: Later Victorian Poetry and Prose—from the 1870's through the 1890's and the early Edwardians. These courses include some fiction but do not emphasize the novel. Prerequisites: 15 credits in literature. [CHANGE DESCRIPTION AND CREDIT HRS. FROM 4, 4 TO 3, 3]

Eng 477/577, 478/578, 479/579 AMERICAN POETRY (3, 3, 3)  
[CHANGE CREDIT HRS. FROM 4, 4, 4 TO 3, 3, 3]

Eng 490/590 RHETORIC (3)  
[CHANGE NUMBER FROM 494/594]

Eng 491/591, 492/592, 493/593 LITERARY CRITICISM (3, 3, 3)  
A study of the history, principles, and practice of literary criticism from Aristotle to Northrup Frye. Prerequisites: 15 credits in literature. [CHANGE NUMBER FROM 415/515, 416/516, DESCRIPTION, CREDITS HRS. FROM 3-5, 3-5 TO 3, 3, 3, AND ADD SEQUENCE]

Eng 494/594 TOPICS IN CRITICAL THEORY AND METHODS (3)  
[CHANGE NUMBER FROM 418/518]

Eng 517 MIDDLE ENGLISH (4)  
[CHANGE CREDIT HRS. FROM 5 TO 4]

Eng 532, 533, 534 OLD ENGLISH (4, 4, 4)  
532: An introduction to the history and grammar of Old English. 533: Old English translation, poetry and prose. 534: Special attention to Beowulf in Old English. Prerequisite: Eng 532 is prerequisite for Eng 533 or 534. [CHANGE DESCRIPTION, CREDITS HRS. FROM 5, 5 TO 4, 4, 4 AND ADD SEQUENCE]

xEng 595 CONTEMPORARY CRITICAL THEORY (4)  
[CHANGE CREDIT HRS. FROM 5 TO 4]

xEng 596 PROBLEMS AND METHODS OF LITERARY STUDY (5)  
Bibliography and the methods of literary study as an introduction to graduate work: three hours lecture and at least two additional hours of library research. Required for M.A. candidates in English. [CHANGE DESCRIPTION]

Wr 472/572 TEACHING HIGH SCHOOL COMPOSITION (3)  
Emphasizes methods and materials for the teacher of writing. Prerequisite: admission to the School of Education. May not be used to satisfy any requirement for the B.A. or M.A. in English [CHANGE TITLE AND DESCRIPTION]
Foreign Languages and Literatures

Lat 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Ger 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Chn 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Jpn 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Kor 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Fr 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
It 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Port 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Span 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Ar 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Heb 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Per 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Hun 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Tur 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
Rus 299 SPECIAL STUDIES (Credit to be arranged) [NEW]
SCr 299 SPECIAL STUDIES (Credit to be arranged) [NEW]

Mathematical Sciences

Mth 111, 112 INTRODUCTORY COLLEGE MATHEMATICS I, II (4, 4)
Prerequisite: Mth 111: grade of C, P, or better in second year high school algebra or equivalent within last five years, or satisfactory score on the placement exam. Mth 112: Mth 111 with a grade of C, P, or better within the last five years, or satisfactory score on the placement exam. [CHANGE PREREQUISITE]

Mth 211, 212, 213 FOUNDATIONS OF ELEMENTARY MATHEMATICS I, II, III (3, 3, 3)
Prerequisite: grade of C, P, or better in second year high school algebra or equivalent within the last five years, or satisfactory score on the placement exam. [CHANGE PREREQUISITE]

Mth 241 CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCES (4)
Prerequisite: grade of C, P, or better in Mth 111 within the last five years, or satisfactory score on the placement exam. [CHANGE PREREQUISITE]

Mth 243, 244 INTRODUCTION TO PROBABILITY AND STATISTICS I, II (3, 3)
A basic course in statistical analysis including presentation of data, design of experiments, sampling theory, tests of significance, analysis of variance, correlation, selected topics and applications. A broad nontechnical survey designed primarily for non-math students who need to utilize the subject in their own fields. Not approved for major credit. Courses must be taken in sequence. Prerequisite: grade of C, P, or better in second year high school algebra or equivalent within the last five years, or satisfactory score on the placement exam. [DROP PARENTHEtical COMMENT AND CHANGE PREREQUISITE]

Mth 251, 252, 253 CALCULUS I, II, III (4, 4, 4)
Prerequisite: grade of C, P, or better in Mth 112 or equivalent within the last five years, or satisfactory score on placement exam. [CHANGE PREREQUISITE]

Mth 301, 302, 303 ELEMENTS OF MODERN MATHEMATICS I, II, III (3, 3, 3)
Prerequisite: grade of C, P, or better in Mth 111 within the last five years, or satisfactory score on placement exam. [CHANGE PREREQUISITE]
Physics

Ph 301 ATOMIC PHYSICS AND RELATIVITY (4) [DROP]

Sociology

Soc 573 ISSUES IN CONTEMPORARY SOCIOLOGY (1)  
[CHANGE CREDIT HRS. FROM 3 TO 1]  

Soc 577 ADVANCED TOPICS IN THEORY (3)  
Exploration of theoretical approaches and issues of emerging interest in sociology, such as conceptualization of social systems, conflict, the problems of relativity and ideology. Specific topics to vary with instructor. Prerequisites: graduate status; Soc 471 and 472/572. [NEW]

Soc 592 THEORY CONSTRUCTION AND RESEARCH PRACTICE (3)  
Examination of the craft of sociological research in conjunction with thesis work. The role of theory in research, evaluating published work, biases in data sources, use of data bases, issues of funding, and the process of thesis writing. Prerequisites: graduate status; Soc 573, 574, 584 and 590. [NEW]

University Honors Program

Hon 403 THESIS (Credit to be arranged) [NEW]

Interdisciplinary Studies

xA&S 410/510 Selected Topics (Credit to be arranged) [NEW]

SCHOOL OF BUSINESS ADMINISTRATION

Accounting

Actg 541 MANAGERIAL ACCOUNTING INFORMATION SYSTEMS (3) [DROP]

Actg 543 OPERATIONAL AUDITING (3) [DROP]

Actg 544 ACCOUNTING AND HUMAN BEHAVIOR (3) [DROP]

Actg 551 FINANCIAL ACCOUNTING THEORY (3) [DROP]

Actg 552 CONTEMPORARY ISSUES IN AUDITING (3) [DROP]

Actg 553 FINANCIAL STATEMENT ANALYSIS (3)
Examines the use of financial information in comparing business performance. Emphasis will be on investigation of properties of accounting numbers and the development of models for determining and forecasting profitability and financial position. Prerequisite: FinL 543. [CHANGE PREREQUISITE]

Actg 554 JUDGEMENTS IN FINANCIAL REPORTING (3) [DROP]
Actg 565 CASES IN MANAGERIAL ACCOUNTING CONTROLS (3)
A study of operational, financial, and informational controls to assure reliability of data, protection of properties, and efficiency of operations. Relationships of the organization structure and functions to responsibility accounting. Budgets and standard costs as control devices. Prerequisites: Actg 512. [CHANGE PREREQUISITE]

Actg 575 CONTROLLERSHIP SEMINAR (3) [DROP]

Business Education

BEd 199 SPECIAL STUDIES (Credit to be arranged) [DROP]
BEd 409 PRACTICUM (Credit to be arranged) [DROP]
BEd 412 METHODS AND MATERIALS: STENOGRAPHY AND OFFICE PRACTICE (3) [DROP]
BEd 413 METHODS AND MATERIALS: PERSONAL FINANCE AND ACCOUNTING (3) [DROP]
BEd 414 ORGANIZATION AND ADMINISTRATION OF BUSINESS EDUCATION PROGRAMS (3) [DROP]
BEd 416 STUDENT TEACHING: SECONDARY (5) [DROP]
BEd 422 WOMEN IN MANAGEMENT--AN OVERVIEW (3) [DROP]
BEd 448 SPECIAL SECONDARY METHODS (3) [DROP]
BEd 508 WORKSHOP (3) [DROP]
BEd 535 TRENDS IN VOCATIONAL AND TECHNICAL EDUCATION (3) [DROP]
BEd 536 RESEARCH IN BUSINESS EDUCATION (3) [DROP]
BEd 537 EVALUATION IN BUSINESS EDUCATION (3) [DROP]

Finance and Law

FinL 535 CORPORATE FINANCIAL MANAGEMENT (3)
An examination of the financial decision processes that lead to the normative goal of maximizing the wealth of stockholders. Emphasis is on the interrelationships between the investment, financing and dividend decisions of the firm and their impact on firm value. Prerequisites: Actg 511, Ec 513 or concurrently. [CHANGE PREREQUISITE]

SCHOOL OF EDUCATION

Educational Policy, Foundations, and Administrative Studies

EPFA 440/540 HISTORY OF EDUCATION (3)
Prerequisite: admission to a certificate or graduate degree program in education. [CHANGE PREFIX FROM CI AND CHANGE PREREQUISITE]

EPFA 446/546 PHILOSOPHY OF EDUCATION (3)
Prerequisite: admission to a certificate or graduate degree program in education. [CHANGE PREFIX FROM CI AND CHANGE PREREQUISITE]

EPFA 542 SOCIAL FOUNDATIONS OF EDUCATION (3)
Prerequisite: admission to a certificate or graduate degree program in education. [CHANGE PREFIX FROM CI AND ADD PREREQUISITE]

EPFA 543 HISTORY OF AMERICAN EDUCATION (3)
Prerequisite: admission to a certificate or graduate degree program in education. [CHANGE PREFIX FROM CI AND CHANGE PREREQUISITE]
Special Education and Counselor Education

Coun 582, 583 INTERPERSONAL RELATIONS (3, 3)  [CHANGE NUMBER FROM 581, 582]

Coun 591 GROUP COUNSELING (3)
Prerequisites: Coun 485, Coun 582, Coun 587, Coun 588. [CHANGE NUMBER FROM 585 AND PREREQUISITES]

SCHOOL OF ENGINEERING AND APPLIED SCIENCE

Computer Science

CS 161 INTRODUCTION TO COMPUTER SCIENCE I (4)
Introduction to fundamental concepts of computer science. Problem solving, algorithm and program design, data types, control structures, subprograms. This course is primarily designed for CS majors. Three lecture hours; one three hour laboratory period. Prerequisite: Mth 111. [CHANGE NUMBER FROM 120 AND DESCRIPTION]

CS 162 INTRODUCTION TO COMPUTER SCIENCE II (4)
Introduction to software design, use of a variety of data structures, data abstraction, and recursion. Application of recursion in software design. Program correctness, verification and testing. Students will write a substantial computer program during the term. Three lecture hours; one three hour laboratory period. Prerequisite: CS 161. [CHANGE NUMBER FROM 121 AND DESCRIPTION]

CS 163 DATA STRUCTURES (4)
Data abstraction with formal specification. Elementary algorithm analysis. Basic concepts of data and its representation inside a computer. Linear, linked, and orthogonal lists; tree structures. Data structures are implemented as data abstractions. Sorting and search strategies. Data management. Three lecture hours; one three-hour laboratory period. Prerequisite: CS 162. [CHANGE NUMBER FROM 320 AND DESCRIPTION]

CS 200, 201 COMPUTER ARCHITECTURE AND ASSEMBLY LANGUAGE (4, 4)
Introduction to computer systems organization, digital logic, number representation, microprogramming, machine-language instructions, interrupts, processes, operating-system interface, virtual memory. Assembly-language programming, macros, linking and loading. Three lecture hours; one 3-hour laboratory period. Prerequisite: CS 162. [CHANGE NUMBER FROM 130, 230, TITLE, DESCRIPTION AND CREATE SEQUENCE]

CS 202 PROGRAMMING SYSTEMS (4)
Students will become familiar with the language and operating system environment used in most upper division courses in the Computer Science major curriculum. Use of the file system, operating-system calls, and shell-level programming; low-level debugging of high-level programs. Programming exercises will include applications from data structures (e.g. B-trees) and memory management techniques. Three lecture hours; one 3-hour laboratory period. Prerequisite: CS 201. [CHANGE NUMBER FROM 309, TITLE, DESCRIPTION, PREREQUISITE, CREDIT AND LECTURE HRS. FROM 1 TO 3, AND ADD LAB]

CS 209 FORTRAN (1) [DROP]
CS 250 DISCRETE STRUCTURES (4)

CS 251 LOGICAL STRUCTURES (4)
Introduction to logic from a computational viewpoint. Propositional calculus, first order predicate calculus, formal reasoning. Resolution and natural deduction. Applications to program correctness and automatic reasoning. Proof techniques. Programming problems introduce use of a logical language. Three lecture hours; one 3-hour laboratory period. Prerequisite: CS 250. [CHANGE NUMBER FROM 311, TITLE, DESCRIPTION, CREDIT HRS. FROM 3 TO 4 AND ADD LAB]

CS 252 COMPUTATIONAL STRUCTURES (4)
Definition of computability. Automata as recognizers, Chomsky language hierarchy. Automata as computation devices: Church’s thesis, computation models and their equivalence (Turing, Kleene, and program models). Solvability and unsolvability, listing the computable functions, the halting problem, the equivalence program. Use of a declarative language. Three lecture hours; one 3-hour laboratory period. Prerequisite: CS 251. [CHANGE NUMBER FROM 480, TITLE, DESCRIPTION, PREREQUISITE, CREDIT HRS. FROM 3 TO 4 AND ADD LAB]

CS 300 ELEMENTS OF SOFTWARE ENGINEERING (4)
Practical techniques of program development for medium-scale software produced by individuals. Software development from problem specification through design, implementation, testing, and maintenance. The fundamental design techniques of stepwise refinement and data abstraction. Comparison of imperative, functional, and logic-programming languages. A software project will be carried through the development cycle. Three lecture hours; one 3-hour laboratory. Prerequisite: CS 202. [NEW]

CS 301, 302 LANGUAGES AND COMPILER DESIGN (4, 4)
Principles of programming languages and language implementation by compilation. Techniques of language definition. Run-time behavior of programs. Compilation by recursive descent. Use of LR compiler-generation tools. Design and implementation of a compiler for a small language. Three lecture hours; one 3-hour project-design laboratory. Prerequisites: CS 202, 252, 300. [CHANGE NUMBER FROM 355, 356, TITLE, DESCRIPTION AND PREREQUISITES]

CS 303 OPERATING SYSTEMS AND CONCURRENT PROGRAMMING (4)
Introduction to the principles of operating systems and concurrent programming on uni- and multi-processor computers. Operating system services, file systems, resource management. The concept of a process; process cooperation and interference. Design and coding of concurrent programs. Design of operating systems. Includes exercises in concurrent programming. Three lecture hours; one 3-hour laboratory period. Prerequisites: CS 202, 252, 300. [CHANGE NUMBER FROM 431, TITLE, DESCRIPTION, PREREQUISITE AND DIVISION OF SEQUENCE]
CS 304 OPERATING SYSTEMS DESIGN AND IMPLEMENTATION (4)
Design and implementation of a small operating system, in a simulated or virtual
environment. The system will include user processes, interactive user interface, and
disk services. Three lecture hours; one 3-hour laboratory period.
Prerequisite: CS 300. [CHANGE NUMBER FROM 432, TITLE, DESCRIPTION,
PREREQUISITE AND DIVISION OF SEQUENCE]

CS 330 COMPUTER ORGANIZATION (3) [DROP]

CS 346 INTRODUCTION TO FILE PROCESSING (3) [DROP]

CS 350 ALGORITHMS AND COMPLEXITY (4)
Techniques for the design and analysis of algorithms. Case studies of existing algorithms
(sorting, searching, graph algorithms, dynamic programming, matrix multiplication,
fast Fourier transform). NP-Completeness. Three lecture hours; one 3-hour
laboratory period. Prerequisite: CS 252. [CHANGE NUMBER FROM 373, TITLE,
DESCRIPTION, PREREQUISITE, CREDIT HRS. FROM 3 TO 4 AND ADD LAB]

CS 418 COMBINATORIAL ALGORITHMS (3) grad [DROP]

CS 420 OBJECT-ORIENTED PROGRAMMING (4)
The fundamental concepts of object-oriented programming languages, including data
abstraction and typing, class inheritance and generic types, prototypes and delegation,
concurrency control and distribution, object-oriented databases, and implementation. to
illustrate these issues, programming assignments in languages such as Smalltalk, Eiffel
and C++ will be given. Three lecture hours; one 3-hour laboratory period.
Prerequisite: CS 302. [NEW]

CS 425 DISTRIBUTED SYSTEMS (4)
Basic concepts in distributed systems including networking concepts, remote procedure
calling, file servers and shared file systems, protection and security issues. These
concepts will be illustrated with case studies of systems such as Locus, Sun NFS, Argus,
Xerox Distributed File System, Cambridge Distributed Computing Systems, Amoeba,
Mach, Apollo Domain, and the Grapevine mail system. Prerequisite: CS 202. [NEW]

CS 430 FOUNDATIONS OF LOGIC PROGRAMMING (4)
Introduction to theory of logic programming. Models, unification, and fixed points.
Declarative and procedural semantics. Negative issues. Topics from deduction and
perpetual processes. Prolog will be introduced as an instance of a logic programming
language to study the results of theory. Three lecture hours; one 3-hour laboratory
period. Prerequisite: CS 252. [NEW]

CS 435 SYSTEMS PROGRAMMING (3) grad [DROP]

CS 438 COMPUTER ARCHITECTURE (3)
Hardware description languages and specifications. Processors, memory and bus
systems. Arithmetic algorithms. RISCs vs. CISC instruction codes, pipelining. Parallel
and architectures and connection network. Performance evaluation, simulation and
analytic models. Three lecture hours. Prerequisite: CS 202. [CHANGE TITLE,
DESCRIPTION AND PREREQUISITE]
CS 441 ARTIFICIAL INTELLIGENCE (4)
Introduction to the basic concepts and techniques of artificial intelligence. Knowledge representation, problem solving, and AI search techniques. Program will be written in one of the AI languages. Three lecture hours; one 3-hour laboratory period. Prerequisites: CS 252 and 202. [CHANGE DESCRIPTION, PREREQUISITES, CREDIT HRS. FROM 3 TO 4, ADD LAB]

CS 442 ADVANCED DATA STRUCTURES (3) grad [DROP]

CS 444, 445 DATABASE SYSTEMS (4, 4)
Introduction to basic concepts of database technology. Database management system architecture, relational data model, data languages, database design, integrity and security, concurrency control, query processing, deductive database, object orientation in database systems, distributed database. Three lecture hours; one 3-hour laboratory period. Prerequisite: CS 202. [CHANGE DESCRIPTION, PREREQUISITE, CREDITS HRS. FROM 3, 3 TO 4, 4 AND ADD LAB]

CS 447, 448 COMPUTER GRAPHICS (4, 4)
This course will provide introduction to graphics systems and applications. Basic structure of interactive graphics systems, characteristics of various hardware devices. Control of display devices, implementation of simple packages, device independence, and standard packages. Distributed architectures for graphics, hidden line and hidden surface algorithms, representations of curves and surfaces. Three lecture hours; one 3-hour laboratory period. Prerequisites: CS 202, Mth 343. [CHANGE DESCRIPTION, PREREQUISITES, CREDIT HRS. FROM 3, 3 TO 4, 4 AND ADD LAB]

CS 451 NUMERICAL COMPUTATION (4)
Introduction to numerical methods. Includes topics from elementary discussion of errors, polynomials, interpolation, quadrature, linear systems of equations, and solution of nonlinear equations. Three lecture hours; one 3-hour laboratory period. Prerequisites: Mth 343, CS 200, CS 208. [CHANGE NUMBER FROM 358, PREREQUISITES, CREDIT HRS. FROM 3 TO 4 AND ADD LAB]

CS 454 SOFTWARE ENGINEERING (4)
Current methodologies for the development of large, industrial strength software systems. Topics include requirements, specification, design, testing, project management and group dynamics. Will include a large team project. Three lecture hours; one 3-hour laboratory period. Prerequisite: CS 301. [CHANGE DESCRIPTION, PREREQUISITE, CREDITS HRS. FROM 3 TO 4 AND ADD LAB]

CS 457 FUNCTIONAL LANGUAGES (4)
Introduction to functional notation, recursion, higher-order functions, reasoning about functions, and models for the evaluation of applicative expressions. Use of functional languages. Three lecture hours; one 3-hour laboratory period. Prerequisite: CS 202 and 252. [CHANGE DESCRIPTION, PREREQUISITES, CREDIT HRS. FROM 3 TO 4, ADD LAB]

CS 458 PROGRAMMING LANGUAGES (3) grad [DROP]

CS 481, 482 THEORY OF COMPUTATION (4, 4)
Computability theory: s-m-n theorem, properties of recursive and recursively enumerable sets, Rice's theorem, reducibility. Lambda calculus, Church-Rosser properties of evaluation schemes. Elements of denotational semantics. Three lecture hours; one 3-hour laboratory period. Prerequisite: CS 252. [CHANGE TITLE, DESCRIPTION, PREREQUISITE, CREDIT HRS. FROM 3, 3 TO 4, 4, DIVISION OF SEQUENCE, AND ADD LAB]
CS 490 COMPUTER PROGRAMMING LABORATORY (4)
Individual and group projects involving the design and implementation of a substantial computer program. Students are encouraged to suggest and define their own topics. A written report is required. May be taken for more than one term. P/NP only.
Prerequisite: CS 302 and 303. [CHANGE PREREQUISITES, CREDIT HRS. FROM 3 TO 4 AND ADD LAB]

CS 541 ADVANCED ARTIFICIAL INTELLIGENCE (3)
Advanced AI topics: natural language understanding, expert systems concepts (including reasoning with uncertainty), intelligent tutoring systems and concept learning. A programming project and a paper are required. Prerequisite: CS 441. [NEW]

CS 560 HUMAN-COMPUTER INTERACTION (3)
Introduction to the basic theory of human-computer interaction. Principles of human cognition and interface design, interface evaluation techniques. Several prototyping tools will be presented. A project is required. Prerequisites: Mth 459, CS 202. [NEW]

CS 572 OPERATING SYSTEM INTERNALS (3)
Internals of a specific operating system including structure of the kernel, block buffering cache, file system structure and system calls, process structure and scheduling, memory management, device driver interface, and interprocess communication. Prerequisite: CS 304. [NEW]

CS 573 COMPUTER COMMUNICATIONS (3)
Layers of the ISO/OSI reference model; basics of computer telecommunications, networking technology; communications protocols, their function and impact on the performance of computer communications; traffic patterns in a data network. Prerequisites: CS 303, Mth 459. [NEW]

Electrical Engineering

EE 455/555 AI: NEURAL NETWORKS I (4)
Introduces approach for developing computing devices whose design is based on models taken from neurobiology and on notion of "learning." A variety of NN architectures and associated computational algorithms for accomplishing the learning are studied. Experiments with various of the available architectures are performed via a simulation package. Students do a major project on the simulator, or a special programming project. Prerequisites: senior standing in EE/CPE or CS, or graduate standing. [NEW]

EE 456/556 AI: NEURAL NETWORKS II (4)
Focuses on applications. Topics in fuzzy set theory, control theory, and pattern recognition are studied and incorporated in considering neural networks. A design project (using NN simulator) in selected application area is done by each student. Prerequisite: EE 455 or 555. [NEW]
SCHOOL OF FINE AND PERFORMING ARTS

Art

Art 491/591 CURRENT CONCERNS IN STUDIO ART (3)
An advanced studio course that focuses on contemporary issues including cultural influences, trends in style and expression, and comparative relationships in the visual arts. Experimental materials, methods, and concepts optional. Emphasis on the creative aspects. Analytical-conceptual approach to the various media. Studio work with individual criticism related to the student's personal direction. Maximum: 12 credits. Prerequisites: one course each in elementary sculpture and elementary painting. [NEW]

Music

Mus 47 FINAL PROJECT (no credit)
All Bachelor of Arts and Bachelor of Science degree candidates must complete a final project consisting of one of the following: 1) a half recital, 2) a twenty minute Brown Bag performance, 3) a performance project, 4) regular performances on area recitals. [NEW]

Mus 261, 262 HISTORY OF ROCK MUSIC (3, 3)
This course traces the history and development of a popular music style in the United States, Great Britain, and other parts of the world. [NEW]

Mus 436/536 OPERA LITERATURE (3)
An intensive study of the development of opera in western music, from the works of Monteverdi in the early seventeenth century to the important operas of this century. Prerequisites: Mus 304, 305, 306. [NEW]

Mus 451/551, 452/552 ADVANCED KEYBOARD SKILLS (3, 3)
This course investigates and applies advanced theoretical concepts to keyboard playing and improvisation. Applications include sightreading, transposition, harmonization and figured bass reading. Prerequisite: by audition. [NEW]

Theater Arts

TA 425/525, 426/526, 427/527 COSTUME HISTORY I, II, III (3, 3, 3)
A historical survey of dress in Western Civilization from Egyptian to modern times with emphasis on the social, political and aesthetic expressions of clothing. Course may be taken out of sequence. Prerequisite: nine credit hours of theater arts and/or history/art history/anthropology. [CHANGE DESCRIPTION, CREDIT HOURS FROM 6 TO 9 AND ADD PREREQUISITE]
SCHOOL OF HEALTH AND PHYSICAL EDUCATION

Physical Education

PE 576  EXERCISE AND TRAINING  (3)
[CHANGE TITLE FROM PHYSIOLOGY OF TRAINING]

SCHOOL OF URBAN AND PUBLIC AFFAIRS

Urban Studies and Planning

USP 571  GEOGRAPHIC INFORMATION SYSTEMS  (3)
Analysis of applications of geographic information systems concepts and technology to land planning and management issues. The multipurpose land information systems concept is used as an organizing device for spatial registration of data layers to achieve data sharing and compatibility among functions. User needs assessment and systems design provides the basis for systems procurement, implementation, and use. [CHANGE TITLE AND DESCRIPTION]

SYSTEMS SCIENCE

SySc 541, 542  DYNAMIC SYSTEMS I AND II  (3, 3)
The fundamental concepts of modeling time dependent deterministic systems, including applications of dynamic models to various types of systems including electrical, mechanical, economic and ecological. Computer methods are used as illustrations and as tools for analysis. Prerequisite: familiarity with high level computer languages, applied linear algebra, differential equations, and multivariable calculus. [NEW]

x = Courses not approved at the time this document was prepared.
Academic Requirements Committee

Recommendation to the Faculty Senate
3 December 1990

The International Baccalaureate (IB) Program is a two-year curriculum leading to examinations for students aged between sixteen and nineteen. The examinations are given in six subject areas: Language A (the student's best language, including selections from world literature), Language B (a second language), Study of Man in Society (the social sciences), Experimental Sciences, Mathematics and Electives. To receive the IB Diploma, a student must take exams on one subject from each of the six groups, at least three at the Higher level and the others at the Subsidiary level. Exams are graded on a scale of 1 (minimum) to 7 (maximum). The candidate must also complete an Extended Essay (4000-word research paper), a course (Theory of Knowledge) and participation in CASS (extra-curricular community service). About 70-75% of the candidates earn the Diploma, which is internationally recognized by most of the best universities. Both of the other major universities in Oregon now recognize the IB Diploma for credit on admission.

The Academic Requirements Committee recommends to the Senate the adoption of the following policy for students admitted holding the IB Diploma:

**Portland State University recognizes the IB Diploma in the admissions process. Holders of the IB Diploma may be granted credit for Higher Level examinations passed with a grade of 5 or better. Credit in each case will be determined by appropriate departments. No credit is granted for Subsidiary Level examinations. Students should forward an IB transcript to the Office of Admissions for evaluation.**

The ARC thanks the following for their help in drafting this recommendation to the Senate:

Frederick Nunn and Norman Rose of CLAS
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