MINUTES OF THE UNIVERSITY SENATE

The February 3, 1998 meeting of the University Senate was called to order by Vice Chairperson Knouse at 3:15 p.m. in the Alumni Auditorium.

The following Senators were excused from the meeting: Alarcon, Ashmalla, Bellak, Carranza, DeCoster, B.Ender, Foltz, Goldsmith, Joyce, Merlo, Nowak, Piwinski, Rivosecchi, Sanchez, Stonebraker, Villa, Wijekumer.

The following Senators were absent from the meeting: Baker, Berish, Bevington, Black, Bukartec, Bullard, Burns, Bynum, Camp, Curey, Eck, Johnson, Kassulke, Kline, Lyons, Mamula, McFerron, McGonigal, S.Morris, R. Mutchnick, Neibauer, Numan, Outerbridge, Palko, Pettit, Popp, Receski, Riesenman, Ruffner, Russel, Sehring, Shiring, Sordelet, StPaul. Taiani, Treaster, Trimble, Vella, Villalobos, Vold, M.T.Williamson, Wyrick.

The minutes of the December 2, 1997 senate meeting were **ACCEPTED**.

Agenda items were **APPROVED**.

REPORTS AND ANNOUNCEMENTS

PRESIDENT'S REPORT (Dr. Pettit)

No report.

PROVOST'S REPORT (Dr. Staszkiewicz)

No report.

VICE CHAIRPERSON'S REPORT (Mr. Knouse)

Vice Chairperson Mr. Knouse made the following remarks:

The Student Congress will be dealing with several concerns this semester. The first will be the holding of *The Meeting of the Masses 2.* We will be surveying the students about their concerns and what issues they would like to see us tackle. We will also be attending State System Advocacy day in Harrisburg. Lastly we will be working to improve the library.

CHAIRPERSON'S REPORT (Dr. Alarcon)

Chairperson Alarcon was excused from the meeting as he was out of country for a professional conference.

STANDING COMMITTEE REPORTS

RULES COMMITTEE--CHAIRPERSON BROAD

No report.

RESEARCH COMMITTEE--CHAIRPERSON NEUSIUS

No report.

STUDENT AFFAIRS COMMITTEE--CHAIRPERSON BARKER

No report.

UNIVERSITY DEVELOPMENT & FINANCE COMMITTEE--CHAIRPERSON HECKROTH

No report.

ACADEMIC COMMITTEE--CHAIRPERSON DUNTLEY

Chairperson Duntley presented the following for <u>Senate information</u>:

1.Honorary Degree Nominations:
The Committee maintains an open pool of nominees for honorary degrees.   The University may award
     two honorary degrees per year by SSHE policy; by local policy there is an attempt to award
     one each at the May and December graduations. Additional nominations (with rationale
     for IUP's consideration and with supporting documents) are welcome.

2.Academic Integrity Policy:
The Committee plans to bring the policy revision to the March Senate agenda. Copies will be
     circulated to interested groups (APSCUF, Student Congress, Deans and Associates,
     Chairpersons) as well as to current Senators. When you receive this document, KEEP IT
     WITH YOUR SENATE MATERIALS FOR THE MARCH MEETING.

At the recommendation of the Academic Committee, the Senate **<u>APPROVED</u>** the following policy:

1.Eberly College of Business policies.
At the request of a Senator, the fourth policy, dealing with restrictions for non-business
     majors, was returned to Committee by the December Senate. An analysis of all
     undergraduates awarded degrees in the Language for international Trade programs in the
     past four years shows that implementation of the policy will not cause hardship in the
     languages. Dean Camp and the Senator attended the Committee's last meeting and as a
     result of the discussion, the Senator's objection/query was withdrawn. Therefore the
     Committee moves approval of the following policy:

Restriction for non-business majors:
Students not majoring in business may count a maximum of 30 credits in business* coursework
     toward the 124-degree minimum. Business credits in excess of 30 will be permitted only
     as credits beyond the 124 for graduation.

* "Business" coursework consists of all ECOB courses except IM101, QB215, and courses in Business
     Education (BE). EC334, Economics of Corporate Decisions, is also treated as a business
     course. "Non-business" coursework consists of all BE courses, IM101, QB215, and all
     non-ECOB courses except EC334.

AWARDS COMMITTEE--CHAIRPERSON WHEAT

No report.

CURRICULUM COMMITTEE--CHAIRPERSON KUZNESKI

Chairperson Kuzneski presented the following for Senate information:

1. The UWUCC accepted the following report from the Liberal Studies Committee:

a. The Liberal Studies Committee approved the change in prerequisites for MA 121 from MA 110 or equivalent high school preparation to MA 105 or MA 110 or equivalent high school preparation.

b. The Liberal Studies Committee approved the following as Type III Writing Professor/Course: Deanna Chang: SO 427 Spouse Abuse.

c. Course Title Changes from the Department of Mathematics

(Current) MA 123 Calculus I for Physics and Chemistry
(Revised) MA 123 Calculus I for Physics, Chemistry and Mathematics

(Current) MA 124 Calculus II for Physics and Chemistry
(Revised) MA 124 Calculus II for Physics, Chemistry and Mathematics

At the recommendation of the Curriculum Committee, the Senate **APPROVED** the following

1. Revised Criteria and Checklist for Social Science Courses in the Liberal Studies Program

a. The Liberal Studies Committee approved the change in prerequisites for MA 121 from MA 110 or equivalent high school preparation to MA 105 or MA 110 or equivalent high school preparation.

b. The Liberal Studies Committee accepted the following revisions to the Criteria and Checklist for Social Science courses in the Liberal Studies Program proposed by the Taskforce on Criteria for LS Social Sciences chaired by Herb Hunter. Other members of the Taskforce were David Chambers, David Grover, Sue Forbes, Larry Kruckman, Bob Stonebraker and Brenda Carter. The additions to the former criteria and checklist are underlined; the deletions are indicated by strikethrough.

KNOWLEDGE AREA: Social Sciences -- 9 s.h.

In order to understand social behavior, institutions, and processes, a major objective of courses in this knowledge area is to introduce students to how ~~the ways which~~ one or more of the social sciences works. Students should learn the major ideas of ~~whichever~~ the discipline ~~is being~~ studied and ~~they~~ should understand the strengths and limitations of that discipline's method of collecting and interpreting data.

All social sciences disciplines are grounded in a recognized and specialized body of knowledge. The core of each discipline includes (1) a large, historical body of knowledge and theory, which is unique to the discipline; (2) theories that describe and explain human behavior in a social and cultural context; (3) models and behavioral hypotheses derived from theories that possess predictive content; and (4) hypotheses that are subjected to rigorous quantitative and qualitative testing.

Students will complete 9 s.h. from a list of courses in the following social sciences, with no two courses chosen from the same discipline: anthropology, criminology, economics, geography, political science, psychology, and sociology.

CRITERIA FOR COURSES IN THE SOCIAL SCIENCE KNOWLEDGE AREA

All courses appropriate to the social science knowledge area must:
1.   explore the critical thinking and analytical skills employed by the discipline to offer meaningful explanations of social and individual behavior;
2.   acquaint students with the various approaches, perspectives, or methodologies used to examine the intellectual questions and problems of the discipline(s);
3.   <u>promote an understanding of individuals, groups, and their physical and social environment by exploring and analyzing concepts developed in the discipline(s);</u>
4.   include, where appropriate, discussion of other cultures and subcultures, including minorities and the roles of women;
~~In addition, all courses appropriate to the social science knowledge area should:~~
~~illustrate how a discipline shares common theories and methods with other disciplines in the social sciences;~~
~~promote an understanding of individual, groups, and their physical and social environment by exploring and analyzing concepts developed in the discipline(s).~~

CHECK LIST -- SOCIAL SCIENCES
Knowledge Area Criteria which the course must meet:
_____Treat concepts, themes and events in sufficient depth to enable students to appreciate the complexity, history and current implications of what is being studied; and not be merely cursory coverage of lists of topics.
_____Suggest the major intellectual questions/problems which interest practitioners of a discipline and explore critically the important theories and principles presented by the discipline.
_____Allow students to understand and apply the methods of inquiry and vocabulary commonly used in the discipline.
_____Encourage students to use and enhance, wherever possible, the composition and mathematics skills built in the Skill Areas of Liberal Studies.

<u>Definitional Social Science Criteria which the course must meet:</u>
_____<u>The social science discipline represented is grounded in a recognized and specialized body of knowledge and theory unique to the discipline.</u>
_____<u>The social science disciplines embody theories that describe and explain human behavior in social and cultural context.</u>
_____<u>Models and behavioral hypotheses with predictive content are derived from those theories.</u>
_____<u>Hypotheses are subjected to rigorous quantitative and/or qualitative testing.</u>

<u>Instructional</u> Social Science Criteria which the course must meet:
_____Explore the critical thinking and analytical skills employed by the discipline to offer meaningful explanations of social and individual behavior.
_____Acquaint students with the various approaches, perspectives and methodologies used to examine the intellectual questions and problems of the discipline(s).
_____<u>Promote an understanding of individuals, groups and their physical and social environment by exploring and analyzing concepts developed in the discipline(s).</u>
_____Include, where appropriate, discussion of other cultures and subcultures, including minorities and the roles of women.

~~Additional Social Science Criteria which the course should meet:~~
~~_____Illustrate how a discipline shares common theories and methods with other disciplines in the social sciences.~~
~~_____Promote an understanding of individuals, groups and their physical and social environment~~

~~by exploring and analyzing concepts developed in the discipline(s).~~

The Senate **<u>APPROVED</u>** the following new course:

AD 342 Intercultural Business Communication   3c-0l-3sh

Prerequisite: Junior Standing
The course provides an in-depth study and theoretical understanding of intercultural business communication, including international, national, ethnic, racial, and socio-economic cultures. Students will explore practices, trends, and difficulties of people primarily identified with one culture, attempting to interact with people of another culture through speaking, listening, writing, and nonverbal means. Problems of intercultural communication situations for business will be pinpointed, elements of the problems clarified, and guidelines projected for problem mitigation.

The Senate **<u>APPROVED</u>** the following new course:

MK 351 Self-Marketing1c-0l-1sh

Prerequisites: Junior Standing (as per credits earned)

Focus on the development of both long-term and short-term self-marketing plans and self-marketing packages. Theories of managerial marketing, professional selling, market research, and advertising applied to self-marketing in order to prepare students to seek internship experience.

The Senate **<u>APPROVED</u>** the following Program Title change:

The College of Fine Arts proposes to change the name of the major, <u>General Fine Arts</u>, to **Interdisciplinary Fine Arts.**

Rationale: The General Fine Arts major is an interdisciplinary program that encompasses courses from eight programs in three colleges. The program name change is an attempt to more accurately describe the program to potential student populations and to redefine it in a manner that gets to the heart of the program's intent--to give students in the College of Fine Arts the opportunity to design a program of study that integrates coursework in three related disciplines, one of which must be in the College of Fine Arts.

The Senate **<u>APPROVED</u>** the following program changes:

Department of Mathematics

Bachelor of Science - Applied Mathematics

Liberal Studies: As outlined in Liberal Studies section   **50-52**
with the following specifications:
Mathematics: (included in major)
Liberal Studies electives: no courses with MA prefix

Major: **40-41**
Required courses:
MA 123 Calculus I for Physics, Chemistry, and Mathematics   4sh
MA 124Calculus II for Physics, Chemistry, and Mathematics   4sh

MA 171	Introduction to Linear Algebra	3sh
MA 216	Probability and Statistics for Natural Science	4sh
MA 241	Differential Equations	3sh
MA 271	Introduction to Mathematical Proofs I	3sh
MA 272	Introduction to Mathematical Proofs II	3sh
MA 480	Senior Seminar	1sh

Controlled electives:
Two courses from the list: 6sh
MA 371, 421, 422, 423, 424, 427, 476, 477
One of the following two course sequences: 6-7sh
MA342/CO450 or CO451 or MA451; MA363/MA364;
MA445/MA446
A minimum of three additional semester hours from   3sh
the list of controlled electives above or the following:
MA 353, 425, 447, 465, 481

Other requirements: **6-12**
Computer Science:
CO 110   Problem Solving and Structured Programming   3sh
CO 250   Introduction to Numerical Methods   3sh
Foreign Language Intermediate level (1)   0-6sh

Free Electives: **19-28**

Total Degree Requirements   **124**

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
(2) A student may select courses to fulfill requirements for specialized track.
  a. Actuarial/Statistics: MA363, 364, 421, 422, 446, 465.
  b. Scientific/Engineering: MA241, 342, 363, 364, 371, 423, 445, 446, 451.
  c. Math Analyst: MA342, 363, 364, 371, 445 or 446, 451, 476, CO minor.
Associated course changes:
  These courses will be deleted from the list of required courses:
  MA 127 Calculus I (4sh)
  MA 128 Calculus II (4sh)
  MA 227 Calculus III (4sh)
  These courses will be added to the list of required course:
  MA 123 Calculus I for Physics, Chemistry, and Mathematics (4sh)
  MA 124 Calculus II for Physics, Chemistry, and Mathematics (4sh)
  MA 272 Introduction to Mathematical Proofs II (3sh)
  MA 480 Senior Seminar (1sh)
This course will be added to the list of electives and specialized tracks (b) and (c), and an
  option in the two-course sequences:
  MA 451 Numerical Methods for Supercomputers
  The title and content of the following course will be changed:
  MA 271 Algebraic Structures (to MA 271 Intro to Mathematical Proofs I).

Rationale for Change.

The Mathematics Department has traditionally offered a separate three semester calculus
sequence specifically for its majors, including a more rigorous, proof oriented presentation,
while offering a "leaner", more applications oriented two semester sequence for the rest of
the sciences. In recent years, the Mathematics Department has found this dual approach to be
a stumbling block in handling students wishing to transfer or change majors into mathematics.
To address this problem, the Mathematics Department has decided to place all of its majors in

the two semester calculus sequence for the sciences. To make up for the reduced exposure to mathematical proofs, the department proposes expanding its one semester introduction to proofs course (the former MA 271 Algebraic Structures) into a two semester sequence (proposed as MA 271-272) and add a one credit senior seminar "capstone" course. The expanded proof sequence will contain the more theoretical material from the three semester calculus sequence. The senior seminar is meant to broaden students' views of mathematics by analyzing problem solving skills and considering the general nature of mathematics.   The senior seminar will also be used by the faculty of the Mathematics Department as an outcomes assessment tool for the Mathematics and Applied Mathematics programs.

The Senate **APPROVED** the following program changes:

Bachelor of Science - Mathematics

Liberal Studies: As outlined in Liberal Studies section   **50-52**
with the following specifications:
Mathematics: (included in major)
Liberal Studies electives: no courses with MA prefix

Major: **40-41**
Required courses:
MA 123   Calculus I for Physics, Chemistry, and Mathematics   4sh
MA 124   Calculus II for Physics, Chemistry, and Mathematics   4sh
MA 171   Introduction to Linear Algebra   3sh
MA 216   Probability and Statistics for Natural Science   4sh
MA 241   Differential Equations   3sh
MA 271   Introduction to Mathematical Proofs I   3sh
MA 272   Introduction to Mathematical Proofs II   3sh
MA 480   Senior Seminar   1sh

Controlled electives:
Four courses from the list: **12sh**
MA 371, 421, 422, 423, 424, 427, 476, 477
A minimum of three additional semester hours from   3-4sh
the list of controlled electives above or the following:
MA 342, 350, 353, 355, 363, 364, 425, 445, 446,
447, 465, 481

Other requirements: **3-9**
Computer Science:
CO 110   Problem Solving and Structured Programming   3sh
Foreign Language Intermediate level (1)   0-6sh

Free Electives: <u>22-31</u>

Total Degree Requirements   **124**

(1)Intermediate-level Foreign Language may be included in Liberal Studies electives.

Associated course changes:
     These courses will be deleted from the list of required courses:
     MA 127 Calculus I (4sh)
     MA 128 Calculus II (4sh)
     MA 227 Calculus III (4sh)

These courses will be added to the list of required courses:
MA 123 Calculus I for Physics, Chemistry, and Mathematics (4sh)
MA 124 Calculus II for Physics, Chemistry, and Mathematics (4sh)
MA 272 Introduction to Mathematical Proofs II (3sh)
MA 480 Senior Seminar (1sh)

Rationale for Change: See rational for revision of Applied Mathematics program.

The Senate **APPROVED** the following program changes:

Program Revisions: B.A. in Economics/Mathematics

Bachelor of Arts - Economics/Mathematics

Liberal Studies: As outlined in Liberal Studies section   **47-49**
with the following specifications:
Social Science: EC121(included in major)
Mathematics: MA123 (Included in Major)
Electives: Intermediate foreign language,
no course with EC or MA prefix.

Major: **53-55**
Core:
EC121 Principles of Economics I   3sh
EC122 Principles of Economics II   3sh
EC421 Macroeconomics Analysis   3sh
EC422 Microeconomics Analysis   3sh
MA123 Calculus I for Physics, Chemistry, and Mathematics   4sh
MA124 Calculus II for Physics, Chemistry, and Mathematics   4sh
MA171 Introduction to Linear Algebra   3sh
MA216 *or* EC355 Statistics   3-4sh

Economics Electives: **12**
Students are especially encouraged to take EC334
Economics of Corporate Decisions and EC356
Econometrics, but any course except EC101
Basic Economics may be used. EC493 Internship
in Economics may be counted only with the approval of the
program coordinator, and only up to 6 semester hours.

Mathematics Electives: **15-16**
At least one of the following two-semester sequences:
MA241 Differential Equations *and* MA371 Linear Algebra
MA363 *and* MA364 Mathematical Statistics I and II
MA445 *and* MA446 Programming and Probabilistic
          Models in Operations Research
Three additional courses either from the above or
from the following:
MA271 Introduction to Mathematical Proofs I
MA272 Introduction to Mathematical Proofs II
MA342 Advanced Mathematics for Applications
MA417 Statistical Applications *or*
MA418 Sampling Survey Theory
MA421 Advanced Calculus I

MA422 Advanced Calculus II
MA423 Complex Variables I
MA425 Applied Mathematical Analysis I
MA427 Introduction to Topology
MA451 Numerical Methods for Supercomputers
MA465 Topics in Statistics
MA476 Abstract Algebra I
MA477 Abstract Algebra II

Other Requirements:

Free Electives:	**20-24**
Total Degree Requirements:	**124**

Associated course changes:
      These courses will be deleted from the list of required courses:
      MA127 Calculus I (4sh)
      MA128 Calculus II (4sh)
      MA227 Calculus III (4sh)
      These courses will be added to the list of required courses:
      MA 123 Calculus I for Physics, Chemistry, and Mathematics(4sh)
      MA 124 Calculus II for Physics, Chemistry, and Mathematics (4sh)
The number of required mathematics courses is reduced by one, and the number of mathematics
electives a student must choose is increased by one. MA 272 has been added to the list of
acceptable electives. MA 451 has been added to the list of acceptable electives. At most 6
semester hours of EC493 Internship in Economics will be counted toward the degree.

Rationale for Change: See rationale for revision of Applied Mathematics program.

In order to keep the proper balance between Economics and Mathematics in the program, the number
of mathematics electives a student must choose has been increased from two to three. This is
in line with the reduction by one of the number of required mathematics courses when the change
from a three course calculus sequence to a two course calculus sequence is implemented. MA
272 was added to the list of acceptable electives because of its relationship to MA 271. MA
451 was added to the list of acceptable electives because it provides students with an
opportunity to gain exposure to supercomputers.

The Senate **APPROVED** the following course revisions:

Current Title & Description
MA 271 Introduction to Algebraic Structures3 credits
                                                3 lecture hours
                                                (3c-01-3sh)
Prerequisite: MA 171
Gives student basic ideas of contemporary mathematics. Includes mathematical logic, algebra
of sets, equivalence relations and partitions of sets, functions, and fundamentals of group
theory. Methods of proof in abstract mathematics are emphasized.

Proposed Title & Description
MA 271 Introduction to Mathematical Proof I3 credits
                                                3 lecture hours
                                                (3c-01-3sh)
Prerequisites: MA 123; MA 171

Gives student basic ideas necessary to prove results in mathematics. Includes but is not limited to logic of mathematics, basic methods of proof, algebra of sets, equivalence relations and partitions of sets, functions, and mathematical induction.

Current Title & Description
MA 421 Advanced Calculus I3 credits
                                     3 lecture hours
                                     (3c-01-3sh)
Prerequisites: MA 124 or MA 227 and MA 271 with a grade of C or better
Study of set theory, real number system, functions topology of Cartesian space, sequences, convergence and uniform convergence, continuity, and uniform continuity.

Proposed Title & Description
MA 421 Advanced Calculus I3 credits
                                     3 lecture hours
                                     (3c-01-3sh)
Prerequisites: MA 124 and MA 272 with a C or better grade
Study of set theory, real number system, functions, topology of Cartesian space, sequences, convergence and uniform convergence, continuity, and uniform continuity.

Current Title & Description
MA 427 Introduction to Topology3 credits
                                     3 lecture hours
                                     (3c-01-3sh)
Prerequisites: MA 271 with a grade of C or better
Study of sets, functions, continuity, compactness, the separation axioms, and metric spaces; application of topology to analysis is demonstrated.

Proposed Title & Description
MA 427 Introduction to Topology3 credits
                                     3 lecture hours
                                     (3c-01-3sh)
Prerequisites: MA 272 with a grade of C or better.
Study of sets, functions, continuity, compactness, the separation of axioms, and metric spaces; application of topology to analysis is demonstrated.

Current Title & Description
MA 476 Abstract Algebra I3 credits
                                     3 lecture hours
                                     (3c-01-3sh)
Prerequisites: MA 171, MA 271 with a C or better.
Development of the theory of integral domains, fields, rings, and groups; designed to develop student's power to think for himself or herself and to improve ability to construct formal proofs.

Proposed Title & Description
MA 476 Abstract Algebra I3 credits
                                     3 lecture hours
                                     (3c-01-3sh)
Prerequisites: MA 272 with a grade of C or better.

Development of the theory of integral domains, fields, rings, and groups; designed to develop student's power to think for himself or herself and to improve ability to construct formal proofs.

<u>Current Title & Description</u>
MA 350 History of Mathematics2 credits
                                 2 lecture hours
                                 (2c-01-2sh)
Prerequisite: Completion of calculus sequence or permission of instructor.
The history of mathematics is concerned with the origins, philosophy, and development of the mathematical sciences.

<u>Proposed Title & Description</u>
MA 350 History of Mathematics3 credits
                                 3 lecture hours
                                 (3c-01-3sh)
Prerequisite: MA 122 or MA 124 or permission of instructor.
Development of the central concepts of mathematics from ancient times up to the development of calculus in the seventeenth century. Mathematical concepts will be placed in historical perspective. The use of the history of mathematics as a pedagogical tool and it relationship to other sciences will be addressed.

<u>Current Title and Description</u>
MA 460 Computers and Calculators in Secondary School 3 credits
          Mathematics3 lecture hours
                                      (3c-01-3sh)
Prerequisite: CO 200 and CO 110
Students will explore how computers and calculators can be used as tools to enhance the instruction in secondary school mathematics.

<u>Proposed Title & Description</u>

MA 460 Technology in Mathematics Instructions   3 credits
               3 lecture hours
                                      (3c-01-3sh)
Prerequisite: CO 205.
This course is designed to provide preservice mathematics teachers with expertise in instructional technology for teaching mathematics at the secondary level. Pedagogical and content knowledge are integrated within the context of technology and current reforms.

The Senate **<u>APPROVED</u>** the following new courses:

MA 272 Introduction to Mathematical Proof II3 credits
                                      3 lecture hours
                                      (3c-01-3sh)
Prerequisites: MA 124; MA 271 with a grade of C or better
A further study of the basic ideas of contemporary mathematics. Topics include but are not limited to mathematical induction, cardinality of sets, relations, methods of proof in number theory, analysis, and algebra.

MA 480 Senior Seminar1 credit
                                      1 lecture hour

(1c-01-1sh)
Prerequisites: Senior standing in a mathematics major.
To assess the effectiveness of the mathematics curriculum and to provide mathematics majors
with a culminating mathematical experience.

The following proposal from the School of Continuing Education was **NOT** approve and was returned
back to the Academic Committee:

School of Continuing Education--Certificate of Completion (**NOT APPROVED**)

Proposal: The School of Continuing Education will collaborate with academic departments to
develop certificate programs consisting of credit courses. These certificates of completion
will bring together groups of related credit courses and will be earned by non-degree School
of Continuing Education students.

Rationale: IUP offers a substantial selection of four-year degree programs as well as a variety
of minors and associate's degrees. Yet, for some adults, a four-year program becomes an
eight-year commitment on a part-time basis, which could discourage any attempt to earn a degree.
In order to appeal to this segment of the community, a process to offer certificate of completion
programs consisting of small groups of related courses is proposed. Nontraditional students
could focus on such practical skill subjects as computer literacy, accounting, and journalism
and achieve a short-term goal marked by a certificate of completion. It is anticipated that
many students, after enrolling in college courses would decide to continue their studies toward
a degree.

Process:1. Working with an academic department the School identifies a rationale then develops
            a certificate program using existing IUP courses and/or special topic courses. The
            rationale includes the purpose of the certificate, competencies to be achieved,
            and time period allowed. The fact that the certificate does not provide licensure
            and is not posted on the academic record is stated in the promotional literature.

2. Upon approval by the appropriate college curriculum committee and the dean of the college,
            the proposal is sent to the Council of Deans for approval and to the UWUCC for
            information.

3. The certificate is awarded only to students enrolled through the School of Continuing
            Education.

Guidelines:

1. A certificate consists of a minimum of nine credits but no more than eighteen credits. No
more than half the credits pertaining to the certificate are accepted in transfer from other
colleges and universities.

2. Although one or two courses may serve as prerequisites for other courses within the
certificate, no prerequisite is required to enter the program.

3. A grade of C or better is required in each course.

The Senate **APPROVED** the following course revisions:

Department of Professional Studies in Education--Course Revision

Current: EL 313 Teaching Mathematics in the Elementary School 3c-0l-3sh

Prerequisites: MA 151, MA 152
Recent developments in curriculum and methods of instruction of contemporary elementary school mathematics programs. Students will become acquainted with books, materials, and other resources helpful to prospective teachers. Includes observation of master teachers.

Proposed: EL 313 Teaching Mathematics in the Elementary School 3c-0l-3sh

Prerequisites: MA 151, MA 152, EL 257
Recent developments in curriculum and methods of instruction of contemporary elementary school mathematics programs. Students will become acquainted with books, materials, and other resources helpful to prospective teachers. Includes observation of master teachers.

The Senate **APPROVED** the following course revisions:

Department of Safety Sciences--Course Revision

Current: SA 488 Internship 12 sh

Prerequisite: Senior standing, all required courses in major, minimum of 2.8 overall and 3.0 GPA in major, and consent.
This course is a practicum conducted at an approved occupational setting up to 500 miles away from IUP. Students are required to conduct four major projects over the course of their internship. One project will be from each of the following areas: Safety Management, Industrial Safety, Industrial Hygiene, and Fire Protection. Students are accountable to an on-site supervisor and are required to remain in close contact with a Safety Science faculty coordinator. Offered in summer only.

Proposed: SA 488 Internship 12sh

Prerequisite: Senior standing, all required courses in major, minimum of 2.8 overall and 3.0 GPA in major, and consent.
This course is a practicum conducted at an approved occupational setting up to 500 miles away from IUP. Students are required to conduct four major projects over the course of their internship. One project will be from each of the following areas: Safety Management, Industrial Safety, Industrial Hygiene, and Fire Protection. Students are accountable to an on-site supervisor and are required to remain in close contact with a Safety Science faculty coordinator.

GRADUATE COMMITTEE--CHAIRPERSON WILLIAMSON

At the recommendation of the Graduate Committee, the Senate **APPROVED** the following minor course revisions:

1.   Course Deletion:
PS 575, American Political Parties

Rationale: This elective course has not been taught since Spring 1973.

2.   Changes in course title and course description

From:

EC 545, International Economics I   3c-0l-3sh
Theory of international trade; analysis of balance of payments; international economic
equilibrium; mechanism of international economic and monetary adjustments.
Prerequisites: EC 121 and EC 122 or permission of the instructor

To:
EC 545, International Trade   3c-0l-3sh
Study of the microeconomic segment of international specialization and exchange, including
theories of international trade and their application to commercial policies; historical survey
and examination of current problems of international trade; and the institutional setting of
international trade.
Prerequisites: EC 121 and EC 122 or permission of the instructor.

Rationale:
The undergraduate component, EC 345, has recently been revised and approved through the
University Senate.

The Senate **APPROVED** the following new course:

EC 546, International Payments   3c-0l-3sh
Study of the macroeconomic segment of international specialization and exchange, including
analysis of balance of payments, exchange rates, and the mechanism of international economic
and monetary adjustments; international macroeconomic policy; historical survey and
examination of current international financial problems; and the institutional setting of
international payments.
Prerequisites: EC 121 and EC 122 or permission of the instructor

Rationale:

The undergraduate portion of this sequence (EC 346) has been inactive since 1986, although it,
too, has recently been revised and approved.

The proposed revisions seek to rearrange the topics designed to be taught in the EC 545/546
sequence. The Department of Economics proposes to move from the current theory/application split
to the more traditional micro/macro division. Such a division would enable the department to
cover both theory and applications at an appropriate depth in each course.

LIBRARY AND EDUCATIONAL SERVICES COMMITTEE--CHAIRPERSON JACKSON

No report.

NON-CREDIT COMMITTEE--CHAIRPERSON GROVE

No report.

OLD BUSINESS (carryover from December 2, 1997 meeting)

There was no old business.

NEW BUSINESS

There was no new business.

The Meeting was adjourned at 4:22 p.m.

Respectfully submitted,

Ramesh Soni
University Senate