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Faculty Senate Minutes 1992 - 1993

Missouri University of Science and Technology Faculty Senate

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MEMO TO:   Academic Council            ATTACHMENT IV.CI

FROM:     Curricula Committee

SUBJECT:  Sept. 10, 1992, Meeting

Submitted EC1's:

EC1 417, Management Systems 301, Capstone Seminar.  3 hours credit. Prerequisites: Senior standing as Management Systems major. The committee approved this seminar for Fall 1992 with the recommendation of submitting this on a CC1 as a 310 seminar in place of the EC1.

EC1 418, Ceramic Engineering 401, Instructional Education for Graduate Students. Approved for Fall 1992. 1 hour credit. Prerequisite: Graduate student in Ceramic Engineering.

Submitted CC1's:

CC1 3602, Physics 321, Electricity and Magnetism II. Approved for Winter 1993. Change in prerequisites from Math 325 recommended and Physics 221 "to" Physics 221.


CC1 3604, Physics 000. Approved change in curriculum for Winter 1993. Phys 27 and Phys 28 to be replaced by Phys 22 or 27 and Phys 26 or 28. Justification: Physics 27 and 28 are "enriched" laboratories and not suitable for all students. Physics 22 and 26 cover same material as Physics 27 and 28, respectively.

CC1 3605, Physics 00. Approved change in curriculum for Winter 1993. In second semester, sophomore year. "Elective" to be replaced by "Literature elective". Justification: for many years the department has had an informal requirement of a literature elective. The faculty has decided to make it a formal part of our general education requirements.

CC1 3606, Ceramic Engineering 284, Electrical Properties of Ceramics. Approved for Winter 1993. Change in course number from 286. Change in course title from Behavior of Materials I-Electronic. Change in description to: The application of ceramic chemistry and physics to the development and evaluation of the electronic, dielectric, magnetic, and optical properties of materials. Emphasis is placed on the design/application relationships which are used to develop materials. Justification: This is part of our adjustments in our courses to better meet student and ABET needs.

CC1 3607, Ceramic Engineering 308, Electrical Ceramics. Approved for Winter 1993. Change in course number from 288. Change in course title from Industrial Electrical Ceramics. Change in description to: The application and design of ceramics for the electrical industry is discussed.
Particular emphasis is placed on how ceramic materials are altered to meet the needs of a specific application. The laboratory acquaints the student with measurements which are used for electrical property evaluation.

CC1 3617, Management Systems 000. Approved for Winter 1993. 1. Management Systems curriculum did not include one of the prerequisite courses for CSci 253. It does include prerequisites CSci 260 fits curriculum objectives very well. 2. CSci dept. is no longer offering CSci 253. 3.Econ 223 is included in Management Systems curriculum but economics faculty has not developed such a course. Until they do, we have agreed with economics chair to substitute Econ 221 which is similar in content.


CC1 3621, Chemistry 110, Master Student. Approved new course for Winter 1993. 1 hour credit. No prerequisites. Description reads: Master student is an orientation course for new and transfer students that addresses transition needs.

CC1 3622, Ceramic Engineering 000. Approved for Winter 1993. Change in curriculum. Reducing the number of credit hours for electives.

CC1 3623, Civil Engineering. Curriculum: Environmental Engineering 362, Public Health Engineering (Co-Listed with CE 362). Approved new course for Winter 1993. 3 hours credit. Prerequisite: CE 261 with "C" or better. Description reads: A comprehensive course dealing with the environmental aspects of public health.

CC1 3624, Civil Engineering. Curriculum: Environmental Engineering 363, Solid Waster Management. (Co-listed with CE 363.) Approved new course for Winter 1993. 3 hours credit. Prerequisites: CE 261 with "C" or better. Description reads: A systematic study of the sources, amounts and characteristics of solid wastes and methods used for their collection, reclamation, and ultimate disposal.

CC1 3625, Civil Engineering. Curriculum: Environmental Engineering 365, Sanitary Engineering Analysis. (Co-listed with CE 365.) Approved new course for Winter 1993. 1 hr. lecture and 2 hr. lab. Prerequisites: CE 265 with "C" or better. Description reads: Quantitative measurement and bench scale pilot plant investigation in the fields of water, sewage, industrial waste, and stream pollution. Interpretation and application of test data.

CC1 3626, Civil Engineering. Curriculum: Environmental Engineering 369, Sanitary Engineering Design. (Co-listed with CE 369.) Approved new course for Winter 1993. 2 hrs. lecture and 1 hr. lab. Prerequisites: CE 265 with "C" or better. Description reads: Functional
design of water and waste water treatment facilities.

CC1 3627, Civil Engineering. Curriculum: Environmental Engineering 461, Sanitary Microbiology. (Co-listed with CE 461.) Approved new course for Winter 1993. 2 hrs. lecture and 1 hr. lab. No prerequisites. Description reads: A study of the principles and applications of the microbiology involved in environmental health and water resources engineering. (The title was submitted as Public Health Engineering which was incorrect and the correct title was inserted.)


CC1 3630, Ceramic Engineering 444, Instructional Education for Graduate Students. Approved new course for Winter 1993. 1 hour credit. Prerequisites: Graduate student in Ceramic Engineering. Description reads; In this course graduate students will participate in scholarly tasks to give them useful experience in undergraduate instruction and research. Skills will be developed to effectively educate students,and interactive discussions will focus on the development of new instructional methods.


CC1 3635, Civil Engineering 461, Sanitary Microbiology. Approved co-listing with Environmental Engineering 461 for Winter 1993. (Title was submitted as Public Health Engineering which was incorrect.)

PART II

CC1 3629, Civil Engineering. (See attached copy.) Proposal of a new minor called, Hazardous Waste Engineering and Science Program. The Curricula Committee thinks the Civil Engineering Department has an excellent idea. The only problem the committee had was that nobody at its meeting had ever heard of a minor for a masters degree. The committee did not feel that it ought to set such a precedent itself and suggests the Academic Council consider the feasibility of a minor with a masters degree.

PART III

Item 2 in the Curricula report on the Academic Council Agenda: "Catalog of Record for Graduation Requirements". The Curricula Committees recommendation has already been given to the Academic Council at the February 14, 1991, meeting as follows:

Student's Catalog Year
In response to Dr. Myron Parry’s memo concerning the student’s catalog year:

Actions of the Curricula Committee concerning curriculum changes will be effective the following fall semester. For purposes of determining students CAPS catalog year the Fall-Summer-Winter would all count as fall of that year.
(e.g. Summer 1990 - Fall 1990 - Winter 1991; all follow Fall 1990 catalog.)

This motion was approved at the March 28, 1991, meeting of the Academic Council and is now University policy. The Curricula Committee asks that this item be removed from the Academic Council Agenda.

PART IV

Item 3, in the Curricula report on the Academic Council Agenda: "Changes in Degree Requirements" (See attached copies). This was tabled at the November 21, 1991, meeting of the Academic Council. The Curricula Committee understands that Vice Chancellor Glen Haddock will move to untable this recommendation.

Chair, Selden Trimble
To: UMR Faculty

Academic Council Meeting
Thursday, September 24, 1992; 1:30 p.m.; G-5 H/SS

I. Approval of minutes of the June 25, 1992 meeting

II. Election of Academic Council Officers

III. Reports and Responses
   A. President’s Report (5 minutes) Randy Moss
   B. Referrals
      1. Professional Development Degree to Curricula Committee
      2. UMR Alcohol Policy Revisions to Personnel Committee and
         Student Affairs
   C. Chancellor’s Report (15 minutes) John Park
   D. IFC Report Vince Roach

IV. Reports of Standing and Special Committees
   A. Admissions and Academic Standards (No report)
      1. English Language Abilities (11/21/91)
   B. Budgetary Affairs Committee (No report)
      1. UMR Salaries
   C. Curricula (15 minutes) Selden Trimble
      * 1. Report No. 1
      * 2. Catalog of Record for Graduation Requirements (10/25/90)
      * 3. Changes in Catalog of Record (09/26/91)
      4. Process for Departmental Quiz Out Exams (01/23/92)
      5. Professional Development Degree (PDD)
   D. Personnel Committee (No report)
      1. Administrator evaluations (04/28/92)
      2. Staff Grievance Procedures (06/25/92)
   E. Public Occasions (5 minutes) Jerry Bayless
      * 1. Easter-related holiday (04/23/92)
   F. RP&A (5 minutes) Ray Edwards
      1. Election of student to Student Affairs
      2. Grievance hearing Panel election
      3. Parking, Security & Traffic Committee (06/25/92)

V. Old Business - none

VI. New Business
   1. General Education (5 minutes) Don Askeland

* Information distributed with agenda to Academic Council members and department
  chairs.

an equal opportunity institution
UMR CURRICULA COMMITTEE COURSE ACTION REQUEST

I. ACTION REQUESTED:

New Course: ______
Deletion: ______

Change of: Catalog Description ______; Course Number ______; Course Title ______;
Prerequisites ______; Curriculum ______; Other X MINOR

Effective Date ______ MINOR: Hazardous Waste Engineering and Science Program.

II. INFORMATION ON WHICH REQUEST IS BASED:

1. Department Civil Engineering______ Present Course No:______; Proposed ______
2. Course Title: Present:

            Proposed HAZARDOUS WASTE ENGINEERING AND SCIENCE PROGRAM

3. Catalog Description (limited to 40 words):

Present:

Proposed:

4. Credit Hours: Present: Lecture ______, Lab ______, Total ______

Proposed: Lecture ______, Lab ______, Total ______

5. Prerequisites: Present:

Proeised:

6. Required for Majors______; Elective for Majors______

7. Estimated Enrollment______; Instructor________

8. Proposed Text(s) ____________________________________________________________________

9. Justification:

The program presented in the attached brochure allows our M.S. students to take
interdisciplinary courses that will prepare them for the specialized work in Hazardous
Waste Engineering. In order for them to receive appropriate formal recognition it is
desirable that a designated minor in HAZARDOUS WASTE ENGINEERING AND SCIENCE appear on
their transcript. The minor will be met by the completion of the core courses as presented
in the brochure.

10. Additional Support information (attach sheets as necessary):

   a. Course Syllabus __________________
   b. Instructor Qualifications__________
   c. Substantiation of need______________
   d. course previously offered as Special
      Topics (101, 201, etc.).
   e. Other X Brochure

   enrollment history______
    semester(s) offered______

III. RECOMMENDED BY DEPARTMENT:

Chairman Signature

Civil Engineering

Department

DATE: 6/23/92

IV. RECOMMENDED BY SCHOOL/COLLEGE:

Dean Signature

Engr

School/College

DATE: 7-23-92

V. RECOMMENDED BY UMR CURRICULA COMMITTEE:

Curricula Committee Chairman Signature

Disapproved

Action

DATE: 9/10/92

APPROVED BY ACADEMIC COUNCIL:

Academic Council Chairman Signature

Action

DATE:______________________

Form UMR CC1 - Revised: Jan. 1987
MEMO TO: Dr. Jim Pogue, President, Academic Council
FROM: Dean Don L. Warner, Dean Robert Davis, Dr. Glen Haddock

RE: Change to Rule on Changes in Degree Requirements

September 25, 1991

A proposed change to the first paragraph of the rule regarding curriculum changes adopted by the Academic Council on April 26, 1990 is shown below (copy attached). This change is being proposed to provide timely compliance with changes in accreditation requirements. We believe that such a rule will benefit the students because a curriculum change is an improvement to the previous curriculum.

The following two paragraphs will replace the first paragraph of the original rule:

"Students are responsible for knowing and meeting degree requirements stated in the Undergraduate Bulletin, current at the time of their initial enrollment as freshmen. In the event of a curriculum change after the student enters UMR, the student will be required to satisfy the new degree requirements, provided that such new requirements not affect requirements already met toward graduation. (No additional hours can be imposed).

"Transfers from community colleges and other universities shall complete degree requirements in effect at the time of their initial enrollment at the community college or university. If there are curriculum changes, the rules stated above apply."
The September 24, 1992, meeting of the Academic Council was called to order at 1:33 PM by Professor Jim Pogue, President.

A motion to approve the June 25, 1992 minutes as written was made, seconded, and passed.

ELECTION OF COUNCIL OFFICERS, 1992-1993

Professor Askeland presented the slate of officers nominated by the Rules, Procedures and Agenda Committee: President, Randy Moss (EE), Vice-President, Lance Haynes (PLAI), Secretary, Chris Ramsay (MET), and Parliamentarian, Jerome Westphal (CE). No other nominations were forthcoming and the slate was elected by acclamation.

REPORTS AND RESPONSES

A. PRESIDENT'S REPORT – Outgoing President-Jim Pogue gave his thanks to the members of the Academic Council for serving this past year and thanks to Dr. Askeland, former Chair of the RP&A Committee. Three small observations: 1) Because of the confusing situation over summer months and which president (old or new) handle Academic Council matters, President Pogue suggested that new officers be selected at the June meeting with the recommendation that they take office at the new fall semester. 2) When making referral matters include a reasonable date to report back to the Council. 3) Suggest that the Academic Council maintain a strong faculty speaking voice.

Incoming President-Randy Moss called for a round of applause in gratitude to Professor Pogue for his tireless work during the past year. The Council agreed.

(GENERAL COMMENTS) Most are aware of President Russell’s visit with the General Faculty, Monday, October 5. The Agenda was set by the RP&A Committee with two items. 1) Brief opening by President Russell and 2) Question and answer session. Phyllis McCoy stated that the deadline for the Long Term Care Insurance is tomorrow, September 25, and all applications received by that date would start on December 1, but the application deadline was extended to October 2, and any application received after the original date up to October 2, coverage would start on January 1.

B. REFERRALS. Professional Development Degree (PDD) referred to the Curricula Committee generated by interest from Board of Curators to investigate our degree programs. UMR Alcohol Policy Revision to Personnel and Student Affairs. Original document in the Academic Council office for review.

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C. CHANCELLOR'S REPORT. Chancellor Park stated that he agreed with President Pogue's comments on the faculty maintaining a strong voice and using the Academic Council as such. Good News, freshmen enrollment is up. Other issues are:

1. EPA document has been signed. Main concern is to develop a campus plan. A committee has been chosen that will design a plan to allow faculty to do their jobs and minimize double checking. We are going to have to work fast to put this program together.

2. At the October Board meeting three people are going off the board. University-wide many of the changes they wanted haven't happened. UMR has done its part. Big issues include Zero base budgeting for departments and low enrollment programs will have to be defended. However, UMR does not have programs that don't fit our mission.

3. Strategic Plan (Action Plan for 1992-93) Dr. Park is asking departments to get their plans and changes for the strategic plan of action for 1992-93 to the Chancellors office in order for a draft to be made available to give to President Russell at the October 5 meeting.

D. IFC REPORT. Dr. Roach stated IFC discussed six items. 1) Executive Order 6A, 2) Faculty Governance, 3) Faculty Workload, 4) General Education Requirements, 5) ByLaws revisions, 6) Faculty Oversight Committee re-established.

Executive Order 6A was found objectionable by faculty on all campuses. Papers noting this were sent to President Russell. The document was revised and is available.

Oversight Committee is going to be reestablished to deal with the large amount of data that is being sent to Board of Curators. The purpose of this Committee will be to check the accuracy of this data.

XXII, 1. REPORTS OF STANDING AND SPECIAL COMMITTEES.

A. CURRICULA. Professor Trimble moved approval of first part of the September 10, Curricula Report. Motion seconded. Voice vote taken the motion passed. Dr. Trimble moved that part II of this report not be endorsed by the Academic Council (a Minor with a Masters degree CC 1 3629). Motion was made and seconded to postpone this item until the next Academic Council Meeting. Voice vote taken, none opposed the motion carried. Professor Trimble asked that the item Catalog of Record for Graduation Requirements be removed from the agenda as this item was discussed and approved at the Academic Council meeting on March 28, 1991. A motion was made to bring Item 3 of Curricula report on the Academic Council off the table (tabled November 21, 1991). Motion seconded and carried. A motion was made to approve the Committees proposed revised version of Changes in Degree Requirements. The motion was seconded. Discussion ensued
Voice vote taken several opposed. A call for show of hands made, 11 were for and 15 were against the motion. The motion failed. A motion was made to refer this matter back to the Curricula Committee for further study. Motion was seconded and carried.

B. PUBLIC OCCASIONS. Dr. Bayless addressed the referral of the Easter Related Holiday request by a student. The Committee was advised by legal counsel against religious holiday because of possible litigation suit against the university. No action was necessary.

A motion was made to extend the meeting for 15 more minutes. Seconded and passed.

C. RULES, PROCEDURES AND AGENDA. Professor Edwards passed around ballots for nominations to the Grievance Hearing Panel. Any ties be handled by flip of the coin.

The Student Affairs Committee needed a student to be elected. The nomination of student Andrew Sears to the Student Affairs Committee was done by acclamation. The motion was seconded and carried.

NEW BUSINESS. General Education Requirements. Professor Askeland presented a draft report on the General Education Requirements and asked the Council to endorse the following: "The purpose of the general education requirements at the University of Missouri-Rolla is to assure that each of its baccalaureate graduates is able:

To reason and think critically;
To write and speak effectively;
To understand the importance of international affairs in an increasingly interdependent global environment;
To continue learning throughout life;
To understand our culture and history;
To appreciate fine arts and the humanities;
To understand major scientific and technological influences in our society.

The faculty has accepted the challenge of continuing its general education programs which currently accomplish these goals."
Motion was made and seconded to accept this statement. Voice vote made none opposed, the motion carried. A motion was made to have President Moss appoint an AD HOC committee of 6-7 faculty to include one student with the task to investigate the General Education Requirements and produce a creative, novel program for students. Motion was seconded and carried.

Motion to adjourn was made and seconded. Voice vote taken, none opposed, motion carried.

Respectfully submitted,

Christopher Ramsay
Secretary

Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.
ITEM 1

MEMO TO: ACADEMIC COUNCIL
FROM: CURRICULA COMMITTEE
RE: EC1'S AND CC1'S

October 6, 1992, and October 15, 1992 meetings

For the information of the Academic Council, the following EC1’s have been submitted by the University departments for experimental courses that will be offered in the near future.

Submitted EC1’s:

EC1 419, Political Science 301, The American Presidency. Approved for Winter 1993. 3 hours credit. Prerequisite: Pol Sci 90.


EC1 421, Computer Science 301, Computer Aided Software Engineering. Approved for Winter 1993. 3 hours credit. Prerequisites: CSc 306.

EC1 422, Computer Science 201, Formal Methods in Software Engineering. Approved for Winter 1993. 3 hours credit. Prerequisites: CSc 153, CSc 158.

EC1 423, Computer Science 401, The Psi Calculus & Massive Parallelism. Approved for Winter 1993. 3 hours credit. Prerequisites: CSc 387, CSc 333, CSc 485.

EC1 424, Computer Science 301, Cryptography and Computer Security. Approved for Winter 1993. 3 hours credit. Prerequisites: CSc 253 and Math 022.


EC1 426, Aerospace Engineering 301, Solar Car Design Laboratory. Approved for Winter 1993. 2 hours credit. No prerequisites.

EC1 427, Mechanical Engineering 401, Advanced Topics in Design and Manufacturing. Approved for Winter 1993. 3 hours credit. Prerequisites: ME 355 or equivalent.
EC1 428, Mechanical Engineering 301, Solar Car Design Laboratory. Approved for Winter 1993. 2 hours credit. No prerequisites.

EC1 429, Aerospace Engineering 301, Aerodynamic Cad Design. Approved for Winter 1993. 3 hours credit. Prerequisites: AE 231.

EC1 430, Electrical Engineering 301, Electronic Equipment Reliability. Approved for Winter 1993. 3 hours credit. Prerequisites: Preceded or accompanied by EE 254.

EC1 431, Electrical Engineering 401, Computational Methods in Electromagnetics. 3 hours credit. Prerequisites: 1 advanced electromagnetics course beyond EE 273.

EC1 432, Electrical Engineering 401, Computer Aided Analysis of Circuits and Systems. Approved for 3 hours credit. Prerequisites: Graduate standing.

EC1 433, Electrical Engineering 301, Solar Card Design Laboratory. Approved for Winter 1993. 2 hours credit. No prerequisites.

EC1 434, Computer Science 201, Local Area Network Concepts and Technologies. Approved for Winter 1993. 3 hours credit. Prerequisites: CSc 284.

EC1 435, English 201, European Dramatic Literature. Approved for Winter 1993. 3 hours credit. Prerequisites: English 20 and 1 semester of college literature.

EC1 436, Philosophy & Liberal Arts, 201H Art, Artists in the Movies-Honors. Approved for Winter 1993. 3 hours credit. Prerequisites: Lower level art class.

EC1 437, Mathematics 401, Advanced Topics in Partial Differential Equations. Approved for Winter 1993. 3 hours credit. Prerequisites: Math 475 or the equivalent.

EC1 438, Mathematics 401, Continuum Theory. Approved for Winter 1993. 3 hours credit. Prerequisites: Math 485.

The Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Submitted CC1's:

CC1 3637, Chemistry 444, Chemical Spectroscopy. Approved for Winter 1993. Change in course number from 455. Prerequisites change from "Chem 351, Chem 343" to "Chem 251, Chem 343".
CC1 3647, Ceramic Engineering 202, *Cooperative Training*. Approved new course for Fall 1992. Variable credit 1-3 hours. No prerequisites. Description reads: On-the-job experience gained through cooperative education with industry, with credit arranged through departmental cooperative advisor. Grade received depends on quality of reports submitted and work supervisor’s evaluation.


Selden Trimble, Chair
ITEM 2

The Civil Engineering and the Geological Engineering Departments have submitted forms CC1 3629 and CC1 3642, respectively, requesting that they be allowed to establish minors in hazardous waste engineering as part of masters degrees. They propose that a student be required to take five of six specified courses which already exist in their departments and in the Chemistry Department. These courses would amount to 16 hours of course work. The main reason the departments want these minors established is so their students will be able to receive official recognition on their transcripts for course work in hazardous waste engineering.

This request presented a problem because of the novelty of a minor in a masters program and the novelty of a minor inside a major area of study. The HANDBOOK ON DEGREES, DEGREE PROGRAMS, AND EMPHASIS AREAS: DEFINITION, POLICIES, GUIDELINES, revised March, 1988, from the University's Office of the Vice President for Academic Affairs defines a minor as follows:

"A defined curriculum or program of study which may be elected by a student in addition and secondary to and separate from the student's degree program. Requirements for minors are normally less extensive than are requirements for degree programs, i.e., majors. Requirements for minors are likely to be similar in magnitude to the specific requirements for emphasis areas; the distinction is that emphasis areas are for subcategories of degree programs and minors are not."

The proposals from the Civil Engineering and the Geological Engineering Departments do not fit this definition very well. It seems much more appropriate to introduce them as emphasis areas. The disadvantage of calling them emphasis areas is that this designation must be approved by the central administration in Columbia and by the CBHE. However, this may not be too difficult because no new money is needed and no other campus presently has such an emphasis area. Both the Civil Engineering and the Geological Engineering Departments have agreed to try submitting these as emphasis areas to see what happens. Accordingly the Curricula Committee strongly recommends to the Academic Council that the Council approve these proposals as emphasis areas.

ITEM 3

"Quiz Outs" were discussed by the committee. It was decided that there was no problem with them at this time. Dr. Trimble will report to the Academic Council.

Selden Trimble, Chair
Recommendation
from the Campus Curricula Committee
to the Academic Council
about the Professional Development Degree

In June, 1974, UMR created a new degree, the Professional Development Degree (hereafter called the PDD). "Designed for working engineers and scientists, the 30-hour degree program is for persons with baccalaureate degrees who wish to improve their professional education." (This is from a University press release out of the central administration at Columbia dated June 28, 1974.) The degree was not a graduate degree. It allowed practicing engineers to incorporate their work experience and a few graduate courses into a post-baccalaureate degree program. Although well-intentioned and perhaps suited to the mid-seventies, it does not now seem to meet much of a need.

The following are some pertinent facts:

1. The 30-hour PDD program requires only 9 hours of regular course work evaluated under the grading practices of UMR. Three of the 30 hours are obtained just by being an engineering graduate registered as a professional engineer. Fifteen of the 30 hours can be transferred from other accredited universities or colleges. This is very different from any masters degree awarded at UMR.

2. According to the Registrar, there is one person enrolled in the PDD program as of October 2, 1992.

3. According to information supplied by the Vice-Chancellor for Academic Affairs, only one person has received a PDD in the past five years and only fifteen have received such a degree in the last ten years.

4. According to the Dean of the School of Mines and Metallurgy, none of the departments in that school that now offer a PDD object to giving it up.

5. The Chairman of the Engineering Management Department is in favor of abolishing the degree.

6. Professor Norman Smith, the Committee's representative from the School of Mines and Metallurgy, received word from the Chairman of the Nuclear Engineering Department that a poll of that department's faculty showed a majority in favor of abolishing all the PDD's and a minority in favor of keeping one "generic" PDD.

(over)
ITEM 5

The present version of how degree requirements are determined does not appear in either the Undergraduate Bulletin or the Manual of Information. This version was adopted by the Academic Council on April 26, 1990, and appears below:

"Students are responsible for knowing and meeting degree requirements stated in the Undergraduate Bulletin, current at the time of their initial enrollment as freshmen. Transfers from community colleges and other universities are permitted to complete degree requirements in effect at the time of their initial enrollment at the community college or university. Students may elect to be graduated under the most recent degree requirements."

The following was unanimously adopted by the Campus Curricula Committee at its October 15, 1992, meeting as its recommendation to the Academic Council as to what ought to be UMR's policy. Further, the Curricula Committee recommends that it be published regularly in the Undergraduate Catalog.

"Students are responsible for knowing and meeting degree requirements stated in the current Undergraduate Bulletin at the times of their initial enrollments as freshmen. A student whose initial enrollment is in the summer will use the catalog current the following fall. A student whose initial enrollment is in the winter will use the catalog current the previous fall.

"Because of the rapid changes in the world today, the Faculty may feel it is in the best interests of the University's students to make changes in their degree requirements. In the event of such changes after a student enters UMR, that student will be required to satisfy the new degree requirements, provided the following conditions are met:

1) The total hours required to graduate cannot be increased for a continuously enrolled student, without that student's permission.

2) The total number of semesters needed to graduate cannot be increased for a continuously enrolled student, without that student's permission.

3) A new course cannot be substituted for an old course which a continuously enrolled student has already satisfactorily completed, without that student's permission.

"Transfer students from community colleges or other universities will complete the UMR degree requirements in effect at the times of their initial enrollments at their community colleges or universities. If there are changes in UMR degree requirements after such students' initial enrollments at their community colleges or universities, the rules stated above apply."

[Signature]

7
October 13, 1992

MEMO TO: Dr. Camille Consolvo

FROM: Linda Martin, Chair, Student Affairs Committee

RE: Alcohol Education Advisory Committee's Recommended Revisions for UMR's Alcohol Policy

As requested by the Academic Council, the Student Affairs Committee has reviewed the recommended revisions to UMR's Alcohol Policy, and endorses the revisions with the following clarifications:

- The definition of the term RSO should be changed to refer only to student organizations in order to be consistent throughout the policy. Athletic teams, booster club, and alumni events should be separate.

- The term "help promote" should be changed to "be supportive of" in the last expectation because "help promote" could imply the need for financial help as opposed to requesting attendance.

cc: Academic Council
I. Approval of minutes of the September 24, 1992 meeting

II. Reports and Responses
   A. President's Report (5 minutes) Randy Moss
   B. Referrals
      1. Hispanic American Eligibility for Minority Scholarships to RP&A
   C. Chancellor's Report (15 minutes) John Park
   D. IFC Report (5 minutes) Vince Roach

III. Reports of Standing and Special Committees
   A. Admissions and Academic Standards (No report) Selden Trimble
      1. English Language Abilities (11/21/91)
   B. Budgetary Affairs Committee (No report)
      1. UMR Salaries (04/23/92)
   C. Curricula (20 minutes)
      1. Report No. 2
      * 2. Minor with Masters Degree (CC1 3629) POSTPONED (9/24/92) TIL NEXT MTG.
      * 3. Process for Departmental Quiz Out Exams (01/23/92)
      * 4. Deletion of the Professional Development Degree (PDD)
      * 5. Changes in Catalog of Record (09/26/91)
   D. Personnel Committee (5 minutes) Arlan DeKock
      1. Administrator Evaluations (04/28/92)
      2. Staff Grievance Procedures (06/25/92)
      3. UMR Alcohol Policy Revision (09/24/92)
   E. Public Occasions Committee (5 minutes) Jerry Bayless
      1. Public Occasions dates
      2. 1994-95 Calendar
   F. Student Affairs (5 minutes) Linda Martin
      * 1. UMR Alcohol Policy Revision (09/24/92)
      * 2. Constitution-OMEGA PSI PHI FRATERNITY, INC.
      * 3. Constitution-DELTA SIGMA THETA SORORITY, INC.
   G. RP&A (5 minutes) Ray Edwards
      1. Parking, Security & Traffic Committee (06/25/92)
   H. AD HOC Committee - General Education Requirements (5 minutes) Keith Stanek

IV. Old Business - None

V. New Business - None

* Information distributed with agenda to Academic Council members and department chairs.
### UNIVERSITY OF MISSOURI - ROLLA
### ALL SOURCES ACCUMULATIVE
### FINANCIAL SUMMARY OF UMR PLANNING
### (In Millions of Dollars)

#### I. Required Expenditures for University Priorities

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</thead>
<tbody>
<tr>
<td>A. Human assets (faculty/staff compensation)</td>
<td>1.10</td>
<td>1.10</td>
<td>1.97</td>
<td>3.07</td>
<td>1.70</td>
<td>2.10</td>
<td>2.30</td>
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<tr>
<td>B1. Physical assets (maintenance &amp; repair)</td>
<td>0.70</td>
<td>0.70</td>
<td>0.00</td>
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<td>B2. Physical assets (equipment)</td>
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<tr>
<td>D. Student financial aid</td>
<td>0.50</td>
<td>0.50</td>
<td>0.41</td>
<td>0.91</td>
<td>0.82</td>
<td>1.22</td>
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<tr>
<td>E. Misc E&amp;E Needs (Insurance, Etc.)</td>
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<td></td>
<td>3.30</td>
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<td>2.48</td>
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<td>4.82</td>
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#### II. Required Expenditures for Campus Priorities

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<tbody>
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<td>A. Performance/market faculty adjustment</td>
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<td>0.50</td>
<td>0.80</td>
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<td>2.00</td>
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<tr>
<td>B. Faculty staff education &amp; training</td>
<td>0.30</td>
<td>0.30</td>
<td>0.30</td>
<td>0.30</td>
<td>0.30</td>
<td>0.40</td>
<td>0.40</td>
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<td>C. Investment for gift income-development</td>
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<tr>
<td>D. Student financial aid</td>
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<td>E. Other (see text)</td>
<td>0.75</td>
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<td>0.75</td>
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#### III. Required Expenditures for Non-Recurring Maintenance & Repair and Equipment Deficiencies

COST DOLLARS ONLY

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</thead>
<tbody>
<tr>
<td>A. Maintenance &amp; Repair</td>
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<td>0.60</td>
<td>0.60</td>
<td>0.90</td>
<td>0.60</td>
<td>0.00</td>
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<tr>
<td>B. Equipment</td>
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#### IV. Revenue Sources

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<td>A. Projected new fee income</td>
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<td>1.30</td>
<td>1.41</td>
<td>2.71</td>
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<tr>
<td>State Revenue</td>
<td>(0.30)</td>
<td>(0.30)</td>
<td>(0.30)</td>
<td>(0.30)</td>
<td>(0.30)</td>
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<td>(0.30)</td>
<td>(0.30)</td>
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<td>Recovery of Indirect Instructional Computing Fee</td>
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<tr>
<td>B. Annual capital appropriations</td>
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<td>0.70</td>
<td>0.70</td>
<td>0.70</td>
<td>0.70</td>
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<td>C. Annual capital above .7 m (cost)</td>
<td>0.52</td>
<td>0.52</td>
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<td>Gifts-grants &amp; contracts</td>
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<td>2.90</td>
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#### V. Reductions To Meet Goals

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<td>(1.01)</td>
<td>(3.44)</td>
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<td>(4.53)</td>
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<td>Cost</td>
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<td>(3.73)</td>
<td>(4.43)</td>
<td>(4.53)</td>
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#### VI. Reductions to Offset Appropriations Withholding

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<td>TOTAL REDUCTIONS</td>
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<td>(2.51)</td>
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<td>(BY REDUCTION TYPE)</td>
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<tr>
<td>Cost</td>
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<td></td>
<td>(1.90)</td>
<td>(2.51)</td>
<td>(1.01)</td>
<td>(3.52)</td>
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#### NET FOR YEAR

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<tr>
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*5-year plan new fee revenue excluded 20% for waivers/scholarships

***$4.40 M in G.O. Budget

**Does not include 1.01 M of FY 93 rate reduction to meet inflation needs.
FALL SEMESTER 1994

- Fall Semester Opens 7:30 a.m.
- Freshmen Orientation
- New Student Orientation
- Student Registration 8:15 a.m. - 3:30 p.m.
- Classwork begins 7:30 a.m.
- Labor Day Holiday
- Mid-Semester
- Thanksgiving vacation begins 7:30 a.m.
- Thanksgiving vacation ends 7:30 a.m.
- Last Class Day
- Reading Day
- Final Examinations begin 8:00 a.m.
- Final Examinations end 5:30 p.m.
- Fall Semester Closes 5:30 p.m.
- December Commencement

SPRING SEMESTER 1995

- Spring Semester Opens 7:30 a.m.
- Student Registration 8:15 a.m. - 3:30 p.m.
- Classwork begins 7:30 a.m.
- Martin Luther King Jr. Recognition Holiday
- Mid-Semester
- Spring recess begins 7:30 a.m.
- Spring recess ends 7:30 a.m.
- Spring break begins 7:30 a.m.
- Spring break ends 7:30 a.m.
- Last Class Day
- Reading Day
- Final Examinations begin 8:00 a.m.
- Final Examinations end 5:30 p.m.
- Spring Semester closes 5:30 p.m.
- May Commencement

*SUMMER SESSION 1995

- Summer Session opens 7:30 a.m.
- Student Registration 8:15 a.m. - 3:30 p.m.
- Classwork begins 7:30 a.m.
- Independence Day Holiday
- Summer Session Closes 12:00 noon

*Schedule shows the regular eight-week Summer Session. Other special course sessions may be scheduled.

CLASS SESSIONS (EXCLUDING FINAL EXAMINATIONS)

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<td>16</td>
<td>15</td>
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<td>Spring Semester</td>
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<td>16</td>
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<td>Summer Semester</td>
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<td>8</td>
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The faculty is reminded of the religious and other holidays that a substantial number of students may wish to observe.
PUBLIC OCCASIONS DATES FOR 1993-94

Industry Career Day
Homecoming
UM-Rolla Day
Parents Day
Commencement*
Science & Engineering Fair
Spring Open House
Commencement*

*Approved as part of 1993-94 calendar

Thursday, September 23, 1993
Friday & Saturday, October 1&2, 1993
Saturday, October 9, 1993
Saturday, October 16, 1993
Saturday, December 18, 1993
Saturday, March 25&26, 1994
Saturday, April 16, 1994
Saturday, May 14, 1994
Submitted to the Academic Council by: Dr. Ralph Alexander, Dr. Robert Laudon, Dr. Robert Medrow, Dr. Joseph Minor, Mr. Scott Palmtag, Dr. Keith Stanek (Chair) and Dr. Lance Williams.

The Ad Hoc Committee has met four times (October 2, 8, 15 and 21, 1992), since its formation. Dr. Don Askeland was able to attend the first meeting and Dr. Selden Trimble attended the second meeting. Their comments have been invaluable in providing continuity between the efforts of the Advisory Committee to the President on Undergraduate Education (hereafter called Advisory Committee) on which they served and UMR's Ad Hoc Committee. They have also provided the Ad Hoc Committee with a number of valuable documents that were generated by the Advisory Committee.

The Ad Hoc Committee on General Education Requirements supports the position taken by the UMR Academic Council with respect to the General Education Requirements. The Ad Hoc Committee feels that UMR's curricula meet many of the requirements/goals of the proposed core, with the possible exception of foreign language/culture. We cite as evidence, the performance of UMR graduates on the college BASE examination.

At this stage, the Ad Hoc Committee's efforts are in a formative stage. The committee members have spent significant time examining each area of the proposed core. By far, the most time has been spent discussing the foreign language requirement and the writing intensive course requirements. The tone of the discussions of the Ad Hoc Committee regarding writing intensive courses is that a policy of "writing across the curriculum" will be more effective than specific writing courses. Laboratory reports, for example, can be made into an effective tool for teaching writing skills. There is a strong feeling that the foreign language requirement in conjunction with existing requirements from ABET and the State of Missouri will lead to a situation where meeting minimum requirements will fill four years of study. It is felt that such a situation is inconsistent with the goal that UMR become the best undergraduate engineering program in the USA by the year 2000. It will be impossible to reach a premier level of recognition if UMR's engineering programs just meet the ABET minima for engineering science, engineering design and mathematics/science.

The Ad Hoc Committee plans to continue its data gathering and program analysis efforts. The registrar has been asked to prepare a CAPS report for each undergraduate degree program at UMR. We are also gathering a number of key articles on "general education" that have appeared in the literature over the last few years. The Ad Hoc Committee is greatly appreciative of the extra time that has been provided to develop a campus plan for UMR. This interim report is highly inconclusive because of the early stage of the Ad Hoc Committee's work. As the process evolves, more specific recommendations will be made. However, it is our intent to develop goals and milestones for the graduates of UMR's programs. These goals and milestones will verify whether the General Education Requirements are successful in shaping the educational background of UMR graduates.
MEMO TO: Academic Council  
FROM: Curricula Committee  
RE: November 5, 1992 Meeting

For the information of the Academic Council, the following EC1's have been submitted by the University departments for experimental courses that will be offered in the near future.

Submitted EC1's:

EC1 439, Life Sciences 301, Biological Effects of Radiation. Approved for Winter 1993 semester. 2 hours credit. Prerequisites: Chem 3.

EC1 440, History 301ML, Comparative British and American Institutions 1877-1920. Approved for Winter 1993. 3 hours credit. No prerequisites.

EC1 442, Chemistry 401, Mass Spectrometry. Approved for Winter 1993. 3 hours credit. Prerequisites: Chem 355 or equivalent undergraduate chemistry degree.

EC1 443, Chemistry 401, Electrochemistry. Approved for Winter 1993. 3 hours credit. Prerequisites: Chem 241.

EC1 444, Chemistry 401, Inorganic Polymers. Approved for Winter 1993. 3 hours credit. Prerequisites: Chem 381 or Chem 435.

The Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Submitted CC1's Reviewed:

CC1 3651, Aerospace Engineering 349, Robotic Manipulators and Mechanisms. Approved for Winter 1993. Change in credit hours from 3 hours lecture "to" 2 hours lecture and 1 hour lab. Change in description to: Overview of industrial applications, manipulator systems and geometry. Manipulator kinematics; hand location, velocity and acceleration. Basic formulation of manipulator dynamics and control. Introduction to machine vision. Projects include robot programming, vision-aided inspection and guidance, and system integration. (Co-listed with ME 349.)

CC1 3652, Mechanical Engineering 349, Robotic Manipulators and Mechanisms. Approved for Winter 1993. Change in credit hours from 3 hours lecture "to" 2 hours lecture and 1 hour lab. Change in description to: Overview of industrial applications, manipulator systems and geometry. Manipulator kinematics; hand location, velocity and acceleration. Basic formulation of manipulator dynamics and control. Introduction to machine vision. Projects include robot programming, vision-aided inspection and guidance, and system integration. (Co-listed with AE 349.)

CC1 3653, Mechanical Engineering 356, Design for Manufacture. Approved new course for Winter 1993. 3 hours credit. Prerequisites: ME 208, ME 253. Description reads: Course covers the approach of concurrent product and process design. Topics includes: Principle of DFM, New product design process, process capabilities and limitations, Taguchi method, tolerancing and system design, design for assembly and AI techniques for DFM.
To: UMR Faculty

Academic Council Meeting
Thursday, November 19, 1992; 1:30 p.m.; G-5 H/SS

I. Approval of minutes of the October 29, 1992 meeting

II. Reports and Responses

A. President’s Report (5 minutes)\[ Randy Moss\]

B. Referrals

1. Proposed Tenure Revisions to Personnel Committee

C. Chancellor’s Report (10 minutes)
   [10 Minutes for Questions & Answers]  \[ John Park\]

D. IFC Report (10 minutes) \[ Vince Roach\]

E. University Wide Retirement & Staff Benefits Committee Questionnaire Results (5 minutes) \[ Bruce Selberg\]

III. Reports of Standing and Special Committees

A. Admissions and Academic Standards (No report)
   1. English Language Abilities (11/21/91)
   2. Proposed Change in Academic Probation (10/29/92)
   3. Delayed (DEL) Grades & Special Topics Courses (10/29/92)

B. Budgetary Affairs Committee (No report)
   1. UMR Salaries (04/23/92)

C. Curricula (5 minutes) \[ Selden Trimble\]
   *1. Report No. 3

D. Personnel Committee (5 minutes) \[ Lance Haynes\]
   1. Administrator Evaluations (04/28/92)
   2. Proposed Tenure Revisions (11/2/92)

E. RP&A (No report) \[ Ray Edwards\]
   1. Hispanic American Eligibility for Minority Scholarships (10/29/92)

F. AD HOC Committee-General Education Requirements (5 minutes) \[ Keith Stanek\]

IV. Old Business -

V. New Business & Announcements -

* Information distributed with agenda to Academic Council members and department chairs.
The meeting was called to order at 1:30 PM by Professor Randy Moss, President of the Academic Council.

Approval of the minutes of October 29, 1992, with two corrections noted: under referrals section the two items referred to Admissions and Academic Standards Committee with report dates of January 21, 1992 were assigned but were not placed in the minutes and Curator Cozad's name was misspelled. No other corrections, the minutes are approved as corrected.

REPORTS AND RESPONSES

A. PRESIDENT's REPORT: Item 1. The Staff Council is looking into the five day appeal requirement for staff. The issue is a complex issue because the five-day appeal portion of the rules is a union agreement and involves the entire university system. Professor Moss plans to write the General Counsel to ask what actions the Academic Council should take if a Staff Council Resolution is adopted. Item 2. There will be a brief Rules, Procedure and Agenda meeting after the Academic Council Meeting.

Permission was asked to shift the agenda, allowing University-Wide Retirement & Staff Benefits Committee to present their report next. No objections noted.

B. UNIVERSITY-WIDE RETIREMENT & STAFF BENEFITS COMMITTEE: Professor Selberg presented the report with a slide presentation of the questionnaire and results. Professor Selberg stated that one of the functions of the committee is to look at possible areas of improvements to the plan. In September 1992, a questionnaire was sent to all employees of UMR asking them to rank the benefit areas from 10 to 1 (10 being the most popular and 1 being the least). Out of 1029 employees to whom the questionnaire was sent, only 470 replied (46%). The intent of the committee is to use the results as given for prioritizing into the staff and faculty benefits issues. The possibility of having the other campuses use the same questionnaire or using a U-Wide questionnaire will be explored. No action is necessary.

C. REFERRALS: 1) Proposed Tenure Revisions to Personnel Committee the report will be presented later. 2) A change of rule in Manual of Information wherein Students being dropped by instructors receive an "F" to Admissions and Academic Standards Committee with a report date of January 21, 1993.

D. CHANCELLOR'S REPORT: Item 1. Dr. Park stated that the General Officers are looking into the matter of Medical Insurance. He then introduced John Larson, the new Director of University Advancement. Item 2. Dr. Park stated that there are many committees that contribute a great deal to this campus and are working very hard. However, the committee on General Education Requirements has a tremendous task ahead, as does the committee on EPA compliance. Any cooperation given to both of these committees would be greatly appreciated. Item 3. There are a number of agenda items to be presented at the Board of Curators Meeting in December.
1) Programs that have less than 5 students were called for review. Some such as the PDD have been eliminated already and others are being investigated. 2) There is a great deal of money in the area of industrial extension and we have to position ourselves to play in the game. President Russell has stated a willingness to assist UMR in matching industrial extension grants. 3) The Cooperative Engineering Program in St. Louis is under review and is likely to be modified. An interim program involving Washington U is certain and UMR will be brought back into the program when the numbers build up. This was a cash-based decision. There were only 17 students in the program so it was cheaper to use Washington University classrooms and laboratories than to invest in new facilities at this time. 4) By March 1st UMR must submit zero base budget information on most of the departments. 5) Curator Cozad’s Revisions on Tenure are being discussed. 6) Jim Vadeboncoeur of Goodhart, King & Associates, Inc. has completed a study of the Administrative Structure. The report basically validated what UMR has already done. 7) By April 1 we will be asked to select a level for this campus following the CBHE Critical Choices Committee to determine if this campus will be highly selective or moderately selective. 8) The budget building process is going to take place earlier this year than it has in the past. This is being built around the Governor’s budget.

Question and discussion ensued.

E. IFC REPORT: Professor Moss gave the IFC Report. Item 1. The Faculty Workload was discussed. IFC sent a document to President Russell which he returned for further discussion regarding the section on teaching. The original document called for an average teaching load of at least 12 semester credit hours per year (6 per semester). President Russell felt that the Curators would not go along with this. They prefer at least nine credit hours per semester for the teaching load, but those include courses such as 490, Thesis Research. There is a sub-committee of IFC that will meet with Board of Curators on Monday. If you have input submit it to Dr. Roach who is on that committee. Item 2. The grading system was discussed. Curator Cozad is suggesting a more detailed grading system to include a class ranking within a given section of a class. The instructor would turn in a grade and a ranking. Curator Cozad suggested that this might be added to the transcript. Item 3. Tenure Revisions were discussed. Item 4. Use of C-Base for assessment was discussed. Lois Pierce (UMSL), Chair for IFC, has formulated a statement that will go to the Board and was circulated to all IFC members asking for comments. The document stated: 1) the same exam should not be used for both advising students and evaluating general education requirements. If it is to be used for advising students it should be taken early. If it is used to evaluate general education requirements, it should be taken later. The same exam can’t be used for both. 2) The distribution of results to faculty is inconsistent across campuses. 3) Students are having to take off work to take the exams. 4) Many faculty believe that C Base is not worth its cost. 5) The faculty prefer major exams to the C Base exam. The consensus is that C Base is not doing what it is supposed to.
Item 5. Dr. McGill stated that health care costs are projected to double in the next five years. IFC recommended that the University Wide Benefits Committee be utilized to study this issue and decide how the university should respond. Item 6. The Critical Choices document was studied and no changes were made. President Russell spoke to IFC on the General Education Requirements, and the ranking of programs on campus. President Russell asked all IFC representatives to bring a list of programs central to their campus to the next IFC meeting. End of Report.

XXII, 3 REPORTS OF STANDING AND SPECIAL COMMITTEES

A. CURRICULA COMMITTEE: Item 1. Professor Trimble moved that the 5 CCI's in Part A of their report be approved. The motion was seconded. A voice vote was taken, the motion carried. Item 2. Part B of their report was discussed. A motion was made that the four proposals in Part B be disapproved. The motion was seconded. A motion was made to divide the question consider Part 1, courses 202 Cooperative Training in Management Systems & 302 Internship and Part 2, courses 300 Special Problems and 301 Special Topics. The motion was seconded. Justification - The two classes 202 Cooperative Training in Management Systems & 302 Internship are cooperative training. The two classes 300 Special Problems and 301 Special Topics are management systems and should not have been proposed. A voice vote was taken on splitting the motion. The motion carried. A motion was made to disapprove courses 300 Special Problems and 301 Special Topics. The motion was seconded. A voice vote was taken. The motion carried. Discussion ensued on Part 1 accepting courses 202 Cooperative Training in Management Systems & 302 Internship. A motion was made and seconded disapprove Part 1, 202 Cooperative Training in Management Systems & 302 Internship. A motion was made to table this item, the motion was seconded. The motion to table failed. The question was called and seconded. The motion carried. The motion on the floor is to disapprove these two courses 202 Cooperative Training in Management Systems & 302 Internship. The motion failed. A motion was then made to approve these two new courses and seconded. The motion carried. End of Report.

B. PERSONNEL COMMITTEE: Item 1. Professor Haynes discussed results of committee deliberations regarding the referral on Tenure Revisions. A three page report is available for anyone who would like a copy. Item 2. Professor Haynes mentioned a procedure by which faculty make recommendations for tenure but not for promotion. According to a sentence in Executive Order 6A which states "Candidates who are not recommended for promotion to Associate Professor should not be recommended for continuous appointment." Professor Haynes recommended that all members ensure their faculty are aware of this when they are deliberating on this issue. No action necessary. End of Report.

C. AD HOC - GENERAL EDUCATION REQUIREMENTS: Professor Moss stated the Committee had met with Dr. Park and that they are hard at work. The Committee will be soliciting input from all programs and all departments soon. No action necessary. End of Report.
NEW BUSINESS & ANNOUNCEMENTS: Professor Trimble stated he received a memo from an anonymous individual in which several things were mentioned. He felt he could not let this go unanswered and was offended by it. Several other faculty expressed the same opinion.

A motion was made: Be it resolved that the Academic Council condemns the sentiments and actions involved in this letter and on behalf of the faculty an apology is sent to Professor Cohen. The motion was seconded. Discussion ensued. A motion to amend this recommendation was made to include condemning the method by which this letter was written (Anonymously). The amendment was seconded. Another recommendation was made that the Academic Council address the global issue by sending a statement reminding everyone of their professional responsibility by being collegial towards one another and working together towards the same goal even if many have differing opinions. The motion was approved as amended.

The meeting adjourned at 3:00 PM.

Respectfully Submitted,

Jerome A. Westphal, Parliamentarian
Acting Secretary

* Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.
Part B

Proposals were received for the establishment of four courses in the Management Systems degree program:

1) 202 Cooperative Training in Management Systems  
2) 300 Special Problems  
3) 301 Special Topics  
4) 302 Internship

The Campus Curricula Committee recommends that all four be disapproved.

First, there is no department which houses the Management Systems degree program. (The requests for these courses were initiated by the director of the program, Catherine Riordan.) The Planning Committee in the College of Arts and Sciences is now considering the question of whether to put this degree program inside some existing department. The Curricula Committee felt there would be no purpose in establishing new Management Systems courses if the program was to be put in a department which already had the courses in place.

Second, the "Introduction" to the proposal to establish the Management Systems degree program in September of 1989 stated:

"This new degree program is based on an interdisciplinary effort of the Departments of Computer Science, Economics, and Psychology. It will utilize the faculty, existing (emphasis added) course structure, and equipment of these departments ... ."

All three of the above-mentioned departments have 300, 301, and 302 courses listed in the undergraduate catalog. The Computer Science Department has a 202 course also listed. The Curricula Committee felt students in the the Management Systems degree program could take one of these already-existing courses to meet any degree requirements.

NOTE: A "capstone seminar course" was included in the Management Systems degree program as approved by the Academic Council in September, 1989. But this appears to be the only unique course authorized for this degree program.

[Signature]  
Selden Trimble, Chairman  
Campus Curricula Committee
December 15, 1992

TO: Dr. Ray Edwards, Chair
Rules, Procedures & Agenda Committee
UMR Academic Council

FROM: Wendell R. Ogrosky
Vice Chancellor for Student Affairs

RE: Hispanic American Eligibility for Minority Engineering Scholarships

In order to conform to current usage, I will, through distribution of this memorandum, instruct the UMR Minority Engineering Program staff, as of this date, to open eligibility for MEP scholarships to all Americans of Hispanic origin. From this date, the MEP office will use the term Hispanic American on all publications and literature.

To better understand the ramifications of this decision one should understand that the Minority Engineering Program was started at UMR in 1974 to provide support for the recruitment and retention of students identified as members of populations that have been historically discriminated against and are under-represented in engineering. The historically discriminated against populations were defined by the federal government in 1975 as African Americans, Native Americans, Mexican Americans and Puerto Rican Americans. Many of the professional and educational groups, such as the Planning Commission for Expanding Minority Opportunities in Engineering, a subsidiary of the Alfred P. Sloan Foundation, concur with the definition of historically discriminated against populations used by the federal government. In addition, the UMR Minority Engineering Program was, and continues to be, considered a Missouri state program by the United States Office of Education. Our designation of the four historically discriminated against groups is currently accepted under the United States Office of Education guidelines.

The MEP scholarship program is supported primarily by external funds. The office received general operations funding of $99,486, or 33.5% of the total budget for fiscal year 93. The remaining amount of the 1992-93 budget ($197,824) will be raised by the MEP office staff to support scholarship funding, summer programs, public school programs and the recruitment of minority students. Much of the external support is contributed by corporations to support their specific interests.
Historically, the State of Missouri has been the primary target area for recruiting minority students. In Missouri, African Americans make up 11% of the total population. All categories of Hispanic Americans comprise 1% of the total population (Table 1). Data for the past five academic years (Table 2) indicate that Mexican Americans and Puerto Rican Americans comprise 16% of the total number of MEP scholars. The 1992-93 MEP applicant pool indicates that 2/3 of the Mexican Americans and Puerto Rican Americans who applied for MEP scholarships received scholarship offers. Of those receiving scholarship offers, 75% accepted (Table 3). We would consider both these rates to be high. Of all 1992-93 first time Hispanic freshmen, including Mexican Americans and Puerto Rican Americans, 1/3 are receiving support from the Minority Engineering Program.

Based on the above statements and the attached tables, we have, in the past, argued that those segments of the Hispanic population who have been historically discriminated against, Mexican Americans and Puerto Rican Americans, have been treated equitably by the UMR Minority Engineering Program. We have further argued that the program exceeds, based on university general operating support, the mission established when the program was started 18 years ago. Succinctly put, the Minority Engineering Program has successfully executed the university mission and the program mission for nearly two decades.

It is now being argued that we should broaden the pool of those eligible to receive MEP scholarships by including all Hispanic Americans in the pool. To make such a change means more people competing for limited resources. We currently award scholarships on academic merit and status as a member of a historically discriminated against group. To off-set the effect of increased pool size on historically discriminated group members, we would be required to change our selection criteria to include the financial circumstances of the applicants. Such action constitutes a fundamental change in the Minority Engineering Program. As stated in the opening paragraph of this memorandum, that fundamental change will now be undertaken.

WRO:sh

Attachments

cc: John Park, Chancellor
    Randy Moss, President, Academic Council
    Floyd Harris, Director, Special Services Programs
    Robert C. Guzman, National President, Society of Hispanic Professional Engineers
    Martin Martinez, Executive Director, SHPE
    Jaime Oaxaca, Member, National Science Board, Washington D.C.
    Charles J. Nowell, Regional Director, Office for Civil Rights, Region VII, U.S. Department of Education, Kansas City, MO
    Frank L. Huband, Executive Director, American Society for Engineering Education
1990 MISSOURI CENSUS DATA

Population: 5,117,073

Breakdown:

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<td>1990</td>
<td>48%</td>
<td>52%</td>
<td>88%</td>
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MINORITY ENGINEERING PROGRAM

Recruitment and Retention Data for MEP Scholars 1988-present

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<th>Academic Year</th>
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<td>9</td>
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<td>1989-90</td>
<td>15</td>
<td>4 (21%)</td>
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<td>14</td>
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<td>19</td>
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<td>TOTALS</td>
<td>65</td>
<td>13 (16%)</td>
<td>78</td>
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The data reflects a persistence rate of 86% for Black students and 77% for Hispanic students who received the MEP Scholarship.
### 1992-93 MEP APPLICANT PROFILE

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### APPLICANTS RECEIVING SCHOLARSHIP OFFER

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### APPLICANTS ACCEPTING SCHOLARSHIP OFFER

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### GEOGRAPHIC DISTRIBUTION

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<td>6</td>
<td>2 (33%)</td>
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<tr>
<td>St. Louis Area</td>
<td>42</td>
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<td>11 (58%)</td>
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<tr>
<td>Other Missouri Locales</td>
<td>14</td>
<td>9</td>
<td>7 (78%)</td>
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<tr>
<td>Out-of-State</td>
<td>26</td>
<td>15</td>
<td>3 (23%)</td>
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MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: January 7, 1993 Meeting

For the information of the Academic Council, the following EC1 has been submitted by the University department for an experimental course that will be offered in the near future.

Submitted EC1's Reviewed:

EC1 441, Metallurgical Engineering 301, Metals Recycling. Approved for Summer 1993. 2 hours credit. Prerequisites: Met 204, Met 241.

The Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Submitted CC1's Reviewed:

CC1 3667, Ceramic Engineering 000. Approved for Winter 1993. Change in curriculum to reflect change in Cer 286 to 284.

CC1 3668, Ceramic Engineering 458, Electroceramic Composites. Approved for Fall 1993. Change in prerequisites from Cer 286 "TO" Cer 284.

CC1 3669, Nuclear Engineering 311, Reactor Physics II. Approved for Fall 1993. Change in course title from Methods of Analysis in Reactor Physics.

CC1 3670, Nuclear Engineering 303, Reactor Physics I. Approved for Fall 1993. Change in course title from Reactor Physics. Change in prerequisites from Math 204 and Physics 107 "TO" Math 204; NE 203 or Phys 107.


CC1 3675, Ceramic Engineering 203, Thermal Process in Ceramics. Approved for Fall 1993. Change in description to: Considerations in rate controlled processes in the fabrication of ceramics, packing of powders, comminution and calcination, drying and firing of ceramic ware, polymorphic transformations, sintering, grain growth and hot pressing, relationships of fabrication techniques to physical properties.

CC1 3676, Chemical Engineering 000. Approved change in curriculum for Fall 1993. Justification: An out-of-department engineering course must be added to meet ABET requirements. The semester that ChE 261 is scheduled has been changed to conform with semester it was offered. ChE 261 and ChE 262 now offered first semester, senior year.

CC1 3677, Psychology 000. Approved for minor options for psych. B.S. majors effective Fall 1993. Justification: The present requirements tends to limit the fields of minor study for our B.S. students to Economics and Sociology. The department believes Minors in other areas of the humanities and social sciences should be equally encouraged.

CC1 3678, Ceramic Engineering 371, Dielectric & Electrical Properties. Approved for Fall 1993. Change in prerequisites from Cer 286 "TO" Cer 284.


CC1 3683, Civil Engineering 380, Water Resources and Wastewater Engineering. (Co-list with EnvE 380). Approved for Fall 1993. Change in course title from, Water Resources and Engineering. Change in prerequisites from CE 233, with grade of "C" or better "TO" CE 233, CE 235, CE 265. Change of description to: Applications of engineering principles to the planning and design of multipurpose projects involving water resources development and wastewater collection/treatment/disposal/systems. Latest concepts in engineering analysis are applied to evaluation of alternative solutions.
CC1 3684. Civil Engineering 380, Water Resources and Wastewater Engineering. (Co-listed with CE 380). Approved for Fall 1993. Change in course title from Water Resources and Waste Management. Change in prerequisites from None "TO" CE 233, CE 235, CE 265. Change in course number from EnvE 366 to EnvE 380. Change in description to: Application of engineering principles to the planning and design of multipurpose projects involving water resources development and wastewater collection/treatment/disposal systems. Latest concepts in engineering analysis are applied to evaluation of alternative solutions.

CC1 3685, Mathematics & Statistics 000. Approved for Fall 1993. Change in catalog, Footnote #6 now reads: A minimum grade of "C" is required by the department in each course counted toward the requirement for the B.S. in Applied Mathematics. Moreover, the department requires that an average of at least two grade points per credit hour must be obtained for all courses taken within the department.

CC1 3686, Computer Science 304, Data Base Systems. Approved for Fall 1993. Change in prerequisites from CSc 253 and (CSc 238 or 274) "TO" (CSc 238 or 274) and CSc 158. Justification reads: Changes will allow Management Information Systems students to take CSc 304.

CC1 3687, Computer Science 385, Computer Communications and Networks. Approved for Fall 1993. Change in prerequisites from CSc 253 and CSc 284 "TO" CSc 284 and CSc 158.

CC1 3688, Petroleum Engineering 000. Approved for Fall 1993. Justification reads: Change in course number (Geol 241 has become Geol 340) and addition of one additional course to the GeE/Geol. Elective (add GeE 246).

Selden Trimble, Chair

CC1 3656, History 000. Approved for Fall 1993. The department of History and Political Science removed the requirement that majors take "An additional course in either European or American history" as a part of its 30 credit hour requirement. In its place the department wishes to require that majors take History 310 to serve as a capstone course.


Selden Trimble, Chair
To: UMR Faculty

Academic Council Meeting
Thursday, January 21, 1993; 1:30 p.m.; G-5 H/SS

I. Approval of minutes of the November 19, 1992 meeting

II. Reports and Responses

A. President’s Report (10 minutes) Randy Moss

B. Referrals
   1. Academic Tenure Regulations to the Tenure Committee
   2. CBHE Categories in Admissions Process to RP&A
   3. Student Advising to Admissions and Academic Standards Committee

C. Chancellor’s Report (10 minutes) John Park
   [10 Minutes for Questions & Answers]

D. IFC Report (10 minutes) Vince Roach

III. Reports of Standing and Special Committees

A. Admissions and Academic Standards (No report) Dale Elifrits
   1. English Language Abilities (11/21/91)
   2. Proposed Change in Academic Probation (10/29/92)
   3. Delayed (DEL) Grades & Special Topics Courses (10/29/92)
   4. Rule Change - Students dropped by Instructor (11/19/92)
   5. Student Advising

B. Budgetary Affairs Committee (No report) Al Crosbie
   1. UMR Salaries (04/23/92)

C. Curricula (5 minutes) Selden Trimble
   * 1. Report No. 4

D. Personnel Committee (No report) Lance Haynes
   1. Administrator Evaluations (04/28/92)

E. RP&A (10 minutes) Ray Edwards
   * 1. Hispanic American Eligibility for Minority Scholarships (10/29/92)
   2. CBHE Categories in Admission Process
   3. Suspension of Rule Change Student Dropped by Instructor

F. Tenure (5 minutes) Orrin Crosser
   1. Academic Tenure Regulations

G. AD HOC Committee-General Education Requirements (5 minutes) Keith Stanek

IV. Old Business -

V. New Business & Announcements -

Information distributed with agenda to Academic Council members and department chairs.

an equal opportunity institution
The meeting was called to order at 1:30 p.m. by Professor Randy Moss, President of the Academic Council.

The minutes of the November 19, 1992 meeting were approved as distributed.

Reports and Responses

President's Report: Item 1 - Professor Lance Williams is out of the country for the semester. President Moss appointed Professor Harry Eisenman to replace Professor Williams on the Ad Hoc Committee on General Education and Professor Henry Metzner to replace Professor Williams on the ADA (Americans with Disabilities Act) committee.

Item 2 - President Moss asked the Council for guidance concerning the procedure President Russell may use to fill the "Chaired Professorships" that would result from new or outside funding; currently, UMR Faculty would not be eligible for consideration for those positions. Some concern was voiced by the Faculty. These positions would have to be included in the new budget and it was stated that they are not included in Governor Carnahan's budget. A motion was made and seconded that the IFC Representatives bring this item to the IFC meeting. The motion carried.

Referrals:

1. Academic Tenure regulations to the Tenure Committee.
2. CBHE Categories in Admissions Process to R.P.&A.
3. Student Advising to Admissions and Academic Standard Committee
4. UMR Smoke Free Policy Draft to Personnel.

Chancellor's Report: Item 1 - Dr. Park discussed items on the upcoming Board of Curators meeting. At the next board meeting each of the Chancellors will be required to make reports on the following seven issues:

1. Departmental Priorities
2. Advising
3. General Education
4. Admissions
5. GTA Teaching
6. CBHE Categories
7. Retention.

These issues have already been addressed by UMR for the most part. The Chancellors staff group has assembled a single document covering all of the planning work done over the last two years. Copies of the document will be distributed to the Departments.

Item 2 - The Budget: The Carnahan budget contains a 2.3% increase for the University System. It is not known what this will translate to for the UMR campus. There is concern about the formulas being used to allocate the funds. Dr. Park is hoping to get the formula changed to recognize the mission of this institution. Dr. Park mentioned that this is an ongoing dialog.

Item 3 - The Faculty Workload Policy: The faculty workload policy was passed by the Board of Curators. Dr. Park pointed out that the policy document consists of four paragraphs, each of the paragraph making a specific point. The first paragraph says UMR would have on file departmental and divisional workload policies (i.e., what the policies are and what counts and doesn't count as
faculty assignments). The second paragraph says the workload will be aggregated on a departmental or divisional basis and will not be aggregated to an individual. The third paragraph outlines the criteria to be considered in determining an individual faculty member's load. The final paragraph states that the average will be nine (9) hours per semester per faculty member. Professor Moss then interjected that at the last IFC meeting President Russell made the following comments:

1. This was a University average and not a departmental average,
2. Chairing a conference or organizing a conference should count toward teaching load and toward the 9 hours.

Dr. Park stated that President Russell is taking a broad view of faculty workload and is giving favorable consideration for graduate teaching and advising, and in particular is including extension activity in teaching. Dr. Park further stated that one difficulty is that in order for something to count it must be included in the University data base system.

Item 4 - Dr. C. Everett Koop will be speaking this evening at the Remmers Lecture. Dr. Park encouraged all to attend, saying that Dr. Koop's subject could not be more timely. In particular, the University has had a thirty percent increase in the cost of medical benefits this year and we are anticipating a fifteen percent increase in each of the next five years. If these increases occur, all the money that could go to raises etc. may go to into medical insurance. The University is setting up a system wide committee to look at how we can cut health care costs. The problem is that all the proposals for cutting health care costs involve some reduction in service. Koop's talk will be very interesting in light of the health care concerns of the University.

D. IFC REPORT. Dr. Vince Roach reported on the activities of the IFC. Two IFC meetings have been held since the last Academic Council Meeting. Important issues have included:

1. Tenure Regulations Revisions; in particular Curator Kozad says he is responding to criticism from students, parents, and general assembly members that faculty members are not doing their job.

2. Grading Policy; Curator Kozad is concerned that 67% of all grades are A's and B's. He has suggested +/- grading and ranking of students in classes.

3. Faculty Workload; IFC was pressing for 6 hours per semester per faculty member. The CBHE guide is 9 hours per semester per faculty member. It was emphasized that this will be aggregated on a departmental level (or to the whole campus), not an individual level. It is interesting to note that Curator Kozad has a complete list of teaching load for all of the members of the faculty of the University by name.

4. Sexual Harassment Policy; This document is ready for the Board of Curator's January meeting.

5. Assessment; IFC sent a memorandum to President Russell saying that assessment does not help in advising students because it occurs too late.

XXII, 4 REPORT OF STANDING AND SPECIAL COMMITTEES

A. AD HOC COMMITTEE-GENERAL EDUCATION REQUIREMENTS: A short summary was given by Professor Keith Stanek, chairman of the committee. Professor Stanek reported that the committee recently sent a questionnaire to the departments and departmental chairs.
B. CURRICULA: A motion was made and seconded to approve the Curricula committee's report. A voice vote on the motion was made and the motion carried.

C. R.P.& A.: Item 1 - Referral on Hispanic American Eligibility for Minority Scholarships: A memo from Vice-Chancellor Ogrosky addressing this matter was attached to the agenda. Since Dr. Ogrosky's memo outlined a solution to the issue, a motion was made and seconded to remove the issue from the agenda. Voice vote on the motion was made and the motion carried.

Item 2 - CBHE Categories: Professor Edwards presented a slide explaining the CBHE categories, and presented a resolution that had been formulated based on historical fact and consistent with previous actions by the Academic Council (i.e., see Attachment XXII, 4. 3C). A motion was made and seconded to adopt the resolution. Voice vote on the motion was made, the motion carried.

Item 3 - Rule Change, Students Dropped by Instructor: Last June the Academic council adopted a new set of rules concerning students withdrawing from a course. Currently, a student can drop a course and it will show as a withdraw on the transcript. However, if an instructor drops the student then the transcript shows an "F". This was not the intent of the new rule. This issue has been referred to the Admissions & Academic Standards committee but due to other pressing issues this item has not yet been acted upon. Thus, as a temporary measure the committee requests that the Chancellor instruct the Registrar to interpret the instructor dropping a student in the same manner as the rule for the student dropping the course. Dr. Park will also include a statement that if the instructor feels it appropriate to assign an"F" he may do so. The Chancellor suggested a straw vote be taken on the issue, the straw vote agreed with the committee.

D. TENURE COMMITTEE: President Moss read a memo written by the Chair of the Tenure Committee to the IFC representative regarding the Tenure Regulations revisions. In short, the memo recommends that the Board of Curators not consider making any changes to the Tenure regulations until the process for changing the regulations includes adequate comment by all interested parties including the faculty.

XXII, 4 OLD BUSINESS: None Presented

XXII, 4 NEW BUSINESS; None Presented

A motion was made and seconded to adjourn. The motion passed.

Respectfully Submitted,

Christopher Ramsay
Secretary

Attachment: XXII, 4 3C resolution - CBHE Categories from R.P.& A.
MEMO TO:  Academic Council  
FROM:  RP&A Committee  
SUBJECT:  Resolution on CBHE category for UMR

The RP&A Committee submits the following resolution for your consideration:

WHEREAS the admissions policy of the University of Missouri-Rolla has been formulated to ensure a reasonable probability that incoming freshmen will graduate;

WHEREAS the average ACT score of the UMR freshman class of fall 1992 was 27.2;

WHEREAS 97 percent of the UMR freshman class of fall 1992 were in the upper half of their respective high school graduating classes and 48 percent of them were in the upper 10 percent of their graduating classes;

WHEREAS the current admissions policy requires the sum of the ACT and high school class percentiles to be 120 or greater where the ACT percentile is based on students attending doctoral granting institutions (this sum would be approximately 140 if the ACT percentile were based on ACT national norms); and

WHEREAS the current admissions policy, based on historical information, considers any entering freshman with a sum of ACT and high school class percentiles between 100 and 119 to be "at risk" and requires additional counseling (only about 5 percent of entering first-time, full-time, degree-seeking freshmen fall into this category);

be it therefore resolved that the Academic Council reaffirms the current admissions policy and finds this policy to be consistent with the CBHE category of a "highly selective" institution.
MEMO TO: ACADEMIC COUNCIL

FROM: CURRICULA COMMITTEE

SUBJECT: FEBRUARY 11, 1993 MEETING

For the information of the Academic Council, the following EC1 has been submitted by the University department for an experimental course that will be offered in the near future.

Submitted EC1 Reviewed:

EC1 446, Mathematics 401, Applied Matrix Theory. Approved for Summer 1993. 3 hours credit. Prerequisites: Some familiarity with matrix algebra, as provided by Math 203, 208, or 302.

The Curricula committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Submitted CC1's Reviewed:

CC1 3689, Electrical Engineering 220, Electrical Engineering Lab II. Approved for Fall 1993. Change in prerequisites from EE 211, 212, 253 "TO" EE 211, 212, preceded or accompanied by EE 253.

CC1 3690, Electrical Engineering 240, Electrical Engineering Laboratory IV. Approved for Fall 1993. Change in prerequisites from EE 211, 212, preceded or accompanied by EE 243 and EE 231 "TO" EE 211, 212, 243, preceded or accompanied by EE 231.

CC1 3691, Civil Engineering 326, Adv. Steel Structures Design. Approved new course for Fall 1993. 2 hours lecture and 1 hour lab. Prerequisites: CE 221 with a grade of "C" or better. Description reads: The design of structural steel systems into a final integrated structure. Plate girders, composite systems, stability, connections, rigid frames, single and multistory buildings, and similar type problems of interest to the student. Use of the computer as a tool to aid in the design will be emphasized.

CC1 3692, Civil Engineering 327, Adv. Concrete Structures Design. Approved for Fall 1993. Change in course title from Adv. Structural Design. Change in prerequisites from CE 223 with grade of "C" or better, preceded or accompanied by CE 221 "TO" CE 223
with a grade of "C" or better. Change in description to: The design of structural concrete systems into a final integrated structure. Two-way slabs, long columns, connections, and discontinuity regions, deflections and cracking of beams and slabs, ACI design criteria, and similar type problems of interest to the student. Use of the computer as a tool to aid in the design will be emphasized.

Selden Trimble, Chair
MEMORANDUM FOR Dr. R. H. Moss, President, Academic Council

FROM: The Ad Hoc Committee on the General Education Requirement:
Ralph Alexander
Jerry Bayless
Harry Eisenman
Robert Laudon
Robert Medrow
Joseph Minor
Scott Palmtag
Keith Stanek, Chair
Nick Tsoulfanidis

RE: Report of the Ad Hoc Committee on the General Education Requirement

Attach are the recommendations of the Ad Hoc Committee on the General Education Requirement. The committee stands ready to clarify any aspects of this document or explain our intent concerning the proposed requirements or their implementation.

EKS/cl
PREAMBLE

The purpose of the General Education Requirement is to assure that UMR graduates will be able to deal successfully with the problems they will encounter in their professional lives. This requires that they acquire the necessary skills and that they be exposed to a broad range of aspects of modern day life. Perhaps more important, it requires that students acquire a thirst for knowledge and establish a pattern of life-long learning.

The skills and fields of knowledge each student must master are extensive. Skills include the ability to communicate in written and oral form, to use computer and information technology, and to use mathematical or symbolic and logical reasoning. Fields of knowledge include the arts, literature, behavioral and social sciences, and the physical and life sciences. Students should also demonstrate the ability to synthesize diverse sources of knowledge to solve problems in their chosen fields of study.

The UMR faculty do not view completing a list of courses as equivalent to meeting these goals. For instance, the faculty believe it is better to complete one or two writing skills courses early in the curriculum, followed by a series of "writing intensive" courses in his/her discipline as opposed to taking a longer sequence of writing skills courses. Similar comments hold for oral argumentation, computer and information technology and mathematics, symbolic and logical reasoning. Practicing a skill in the student's discipline is a major step toward acquiring that skill for life. This is one of the fundamental premises in the University of Missouri-Rolla plan for implementing the General Education Requirement.

The University of Missouri-Rolla is Missouri's "Technological University". As such, it is not surprising that the faculty at UMR view a balance between science/mathematics and the liberal/humanistic requirements as vitally important.

COMMUNICATION SKILLS

Rationale

The administration and faculty of the University of Missouri-Rolla recognize that written and oral communication skills are extremely important for every college graduate. Success, particularly at the higher positions of the professional ladder, requires professional competency and communication skills. It is also recognized that writing or preparing an oral presentation about a topic is an important part of the learning process, and helps students to think and to express their thoughts more clearly.

Consistent with the recognition of the importance of communications skills is an organized effort at UMR to integrate communications skills into every curriculum in such a way that our graduates can articulate their thoughts clearly and succinctly, both orally and in writing.
**Proposed Requirement**

Each curriculum is to include English 20 as a required course. Each department is to develop a plan which will provide students with opportunities to enhance their writing and speaking skills through writing-intensive and/or written and oral communications courses. At least one of the writing-intensive courses should be in the student's major. Methods of evaluating students' communication skills are to be included in the plan.

**General Objectives**

Students should have numerous opportunities to enhance their communications skills throughout the curriculum. Students' competencies in expressing themselves must be evaluated to assure that graduates can write and speak effectively.

**Implementation**

In order to achieve these goals, it will be necessary to include writing and speaking requirements in several courses in each department. We do not believe it is necessary to add new courses specifically devoted to writing skills or oral presentations. The proposed Center for Writing Technologies should be established to provide the necessary assistance to faculty responsible for developing such courses. The Center would provide individual assistance to students and faculty in establishing standards for good writing and methods of evaluating writing.

**COMPUTER AND INFORMATION TECHNOLOGY**

**Rationale**

As society moves from the industrial period to the information age, more people will become involved, both personally and professionally, with tasks related to the collection, processing, management, retrieval, transfer and use of information. Present day and future professionals must have basic computer skills in order to achieve a level of efficiency in their daily personal and professional lives that makes them competitive in the market place.

**Proposed Requirement**

All students should complete a course on either the use of a high-level language (such as FORTRAN, Basic, Pascal or C), or the acquisition of skills associated with applications software packages (e.g., word processors, spreadsheets, E-mail and database management systems). This basic exposure should be followed by at least two courses in the student's discipline that are categorized as "computer intensive". A computer-intensive course is one in which the student writes one or more programs in a high-level language to solve a discipline-specific problem or in which the student uses a software package to solve problems related to his/her field of study.

**General Objectives**

Develop the computer skills necessary to process or access information related to the practice of the student's chosen field.
FOREIGN LANGUAGE AND CULTURE

Rationale

Professionals facing the 21st century must be better versed in and more sensitive to the international world. They must be aware of international interdependence reflected in the global economy and the multinational approach to world politics. Americans must end their long-standing ethnocentrism and gain greater sensitivity to other peoples and their cultures.

Proposed Requirement

All students must complete at least two courses treating foreign language and/or cultural awareness from a list of approved courses, or they must acquire equivalent foreign cultural experiences in accordance with guidelines established by each department. The course list would include classes such as: foreign languages, foreign civilization and culture [e.g., history or literature]. The equivalent experience guidelines would include activities such as study abroad, working abroad, and attending meetings or conferences abroad.

General Objectives

Develop an awareness of and sensitivity to a culture or cultures other than that/those of English-speaking North America.

Increase one's ability to function in a global economy and enhance one's credentials to perform as a professional in that economy.

Hone language and communication skills by learning a language other than English.

MATHEMATICAL, SYMBOLIC AND LOGICAL REASONING

Rationale

Knowledge of mathematical, symbolic and logical reasoning is an essential component of any individual's intellectual capacity. The study of these topics is essential to the development of mental discipline and structured and logical thought processes. The language of mathematics is fundamental in understanding of the natural, business and social worlds.

Proposed Requirement

All students should complete at least two courses in the area of mathematics, statistics or symbolic and logical reasoning. These courses should lay a foundation for study in the student's chosen field.

General Objectives

Develop the mathematical, symbolic and logical reasoning tools necessary for study in the student's chosen field and develop critical thinking skills necessary to make rational decisions.
PHYSICAL AND BIOLOGICAL SCIENCES

Rationale

"Traditional" General Studies programs commonly group certain areas of study together as distribution requirements. As a result, the possibility is raised that the critical, and growing, impact of the physical and biological sciences upon the lives of everyone will receive less attention than it should. The sciences teach the vital concept of cause and effect that helps to prepare all students to make sound decisions.

Proposed Requirement

All students should complete at least three courses in the physical and/or biological sciences, at least one of which must have a significant laboratory component.

General Objectives

Develop an awareness of and an appreciation for rational thinking as expressed in the scientific method.

Develop an appreciation for the application of both experimentation and mathematics to the solution of physical and/or biological problems.

Consider multiple situations in which physical laws limit, define, and regulate the behavior of real events having social and political implications.

SOCIAL AND BEHAVIORAL SCIENCES, HUMANISTIC STUDIES, AND FINE ARTS

Rationale

The major topics within this broad collection of disciplines have long been, and still remain, essential components of what any educated individual should know. The arts, in all their forms, include some of the greatest human accomplishments.

The study of people, and the historic, social, cultural, ethical, and economic forces that shape their behavior have, if anything, increased in importance as the world has become a smaller place. A portion of the course work in this area should reflect the reality of a highly interconnected world.

These topics have been grouped together for two principal reasons. First, the line between what constitutes humanities and what constitutes social sciences is blurred. Second, rigid divisions within these topics when coupled with legal and accreditation requirements might result in reducing, rather than increasing, the choices possible to a student.

Proposed Requirement

All students should complete at least six courses within these areas. If these courses will represent all, or nearly all, of a student's activity within these areas, at least two of these courses should have, as prerequisites, one or more of the other college courses
within these areas. To the extent consistent with this requirement, departmental programs should require as much breadth of activity as possible.

**General Objectives**

- Develop an awareness of rational thinking as applied to human behavior, both individual and social.
- Develop an understanding and a knowledge of human history, including the impact of literature and the fine arts.
- Consider the impact that these topics have in limiting and defining solutions to social and political problems.

**SYNTHESIS AND INTEGRATION**

**Rationale**

Students must be able not only to pass individual courses, but also to relate information from vastly different areas into an integrated understanding of their own discipline as well as comprehend how their discipline relates to the rest of the world.

**Proposed Requirement**

All students will be required to complete an upper level project (or course containing an upper level project) involving synthesis and integration of the entire undergraduate experience. Presentation of the project results is expected in the form of a written report, oral report, recital, exhibit or performance appropriate to the discipline. Projects might include a research or thesis project, an essay, an internship, an upper level seminar or an upper level design course.

**General Objectives**

The American education process is a highly compartmentalized process in which students are required to complete many different and often unrelated courses. The objective of the synthesis and integration requirement is to make certain that students are able to:

1. Retain information from the many different courses,
2. Integrate information from the many different courses into an overall composite understanding of their discipline,
3. Bring that composite information to bear on a project or problem pertinent to the discipline.
PHASE-IN PERIOD

The adoption of a General Education Requirement represents a very significant impact on the various degree programs. For example, it will be necessary to match faculty expertise to course offerings and to modify and create new course offerings. Each department will be faced with difficult choices related to required and elective courses in its degree program in order that the General Education Requirement be met while honoring accreditation requirements. In addition, programs in every field have certain attributes that cannot be omitted from a competitive degree offering, even though they are not dictated by either the General Education Requirement or accreditation requirements. These attributes are frequently the richness of a degree program that makes the program attractive to prospective students. The decisions which must be made should be well-planned and the ramifications carefully analyzed.

In addition to re-shaping the curricula in all degree programs, we must worry about modifying course descriptions and matching faculty to greatly revised course offerings. In some cases, the existing faculty expertise will not mesh well with major new course offerings. It will also be necessary to offer new introductory courses, especially in areas such as foreign language and culture.

A major factor in the implementation of the General Education Requirement will be the formation of the Center for Writing Technologies. This Center will have to be authorized, staffed and faculty educated with respect to the services it can offer.

Because of the time required for institutional evaluation and approval, the development of model transfer programs with other institutions and the formation of the Center for Writing Technologies, we do not believe these requirements can be implemented before the Fall of 1996.

IMPLEMENTATION AND REVIEW COMMITTEE

Each department must submit a revised curriculum for each degree it offers. This revised curriculum should be reviewed by a committee to verify that it will meet the goals of the General Education Requirement. In addition, there should be a committee structure to review courses that may qualify as "writing-intensive" or "computer-intensive".

It is proposed that the existing UMR Curriculum Committee is an appropriate entity to perform this function. The start-up process of reviewing twenty six degree programs and various courses to determine if specific courses meet goals under various categories of the General Education Requirement may be a heavy burden and therefore it may be appropriate to expand the Curriculum Committee membership temporarily.

Once the General Education Requirement is established in all curricula, it should become a maintenance effort for the Curriculum Committee to determine if:

1) any change in curriculum for a degree program satisfies the General Education Requirement.

2) courses which were approved as being "writing-intensive", "oral-argumentation-intensive", "computer-intensive", etc. continue to qualify as such. Perhaps
courses that were so designated should be reviewed on a three to five year cycle. Reviews should be as quantitative as possible. For instance, a writing-intensive course should require a minimum number of words of writing in multiple drafts or a minimum number of individual writing assignments.
To: UMR Faculty

Academic Council Meeting
Thursday, February 25, 1993; 1:30 p.m.; G-5 H/SS

I. Approval of minutes of the January 21, 1993 meeting

II. Reports and Responses

A. President’s Report (10 minutes)             Randy Moss

B. Chancellor’s Report (10 minutes)
   [10 Minutes for Questions & Answers]
   John Park

C. IFC Report (10 minutes)                    Randy Moss

III. Reports of Standing and Special Committees

A. Admissions and Academic Standards (No report) Dale Elifrits
   1. English Language Abilities (11/21/91)
   2. Proposed Change in Academic Probation (10/29/92)
   3. Delayed (DEL) Grades & Special Topics Courses (10/29/92)
   4. Rule Change - Students dropped by Instructor (11/19/92)
   5. Student Advising (01/21/93)

B. Budgetary Affairs Committee (No report)     Al Crosbie
   1. UMR Salaries (04/23/92)

C. Curricula (5 minutes)                      Selden Trimble
   1. Report No. 5

D. Personnel Committee (10 minutes)            Lance Haynes
   1. Administrator Evaluations (04/28/92)
   2. UMR Smoking Policy Draft (01/21/93)

E. Student Affairs (5 minutes)                 Linda Martin
   1. Sigma Tau Delta Constitution
   * 2. Constitution & Bylaws of the University of Missouri-Rolla
      Student-Missouri State Teachers Association
   * 3. Constitution & Bylaws of Society of Plastics Engineers
   * 4. Rites of KEMET

F. AD HOC Committee-General Education Requirements (10 minutes) Keith Stanek

IV. Old Business -

V. New Business & Announcements -

* Information distributed with agenda to Academic Council members and department chairs.
ITEM 1
Attached is a copy of the procedures followed by the campus curricula committee. There seems to be occasional confusion as to what these procedures are. To avoid this, the committee thought it was a good idea to send these procedures to all the university departments. Before doing so the committee thought the Academic Council itself should be aware of these procedures because the committee is of the opinion that these are the procedures that Academic Council wants it to follow. If the Academic Council wants to change these rules, the committee requests that it do so this spring. However, the committee is not requesting that the Academic Council take any action.

Item 2
For the information of the Academic Council, the following EC1's have been submitted by the University departments for experimental courses that will be offered in the near future.

Submitted EC1's Reviewed.

EC1 447, Ceramic Engineering 401, Crystal Anisotrophy. Approved for Winter 1994. 3 hours credit. Prerequisite: Cer 102.

EC1 448, Nuclear Engineering 301, Nuclear Cross Section. Approved for Fall 1993. 2 hours credit. Prerequisite: NE 203, or Phys. 107.

EC1 451, Physics 201, Introduction to Theoretical Physics. Approved for Fall 1993. 3 hours credit. Prerequisites: Physics 24 or 25 and preceded or accompanied by Math 204.

EC1 452, Statistics 401, Time Series Analysis. Approved for Summer 1993. 3 hours credit. Prerequisites: Stat 343 (Stat 344 preferable but not required).

EC1 453, Life Sciences 301, Laboratory Training for Science Teachers. Approved for Summer 1993. 3 hours credit. Prerequisites: Bachelor's degree and active in Elementary or Secondary Education.
EC1 454, Life Sciences 301, Laboratory Practicum for Science Teachers. Approved for Winter 1994. 2 hours credit. Prerequisite: Life Science 301 - Lab Training for Science Teachers.

The Curricula committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Submitted CC1's Reviewed:

CC1 3693, History/Political Science 302, Political Science Internship. Approved new course for Fall 1993. Variable hours credit. Prerequisites: Pol. Sci. 90 or Pol. Sci. 235. Description reads: Internship will involve students applying critical thinking skills and discipline-specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

CC1 3694, Music 171, Introduction to Electronic Music. Approved new course for Fall 1993. 3 hours credit. No prerequisite. Description reads: An introduction to the techniques, repertoire, history and literature of music technology and electronic music.

CC1 3695, Mining Engineering. Approved change in curriculum effective Fall 1993. Justification reads: Senior year Mining students take either GeE 376 or GeE 335 as Environmental option. The GeE Department is not presently teaching GeE 376. The change is the deletion of GeE 376 from the Mining Curriculum.

CC1 3696, Ceramic Engineering 122, Ceramic Materials Lab II - Rheology & Plastic Behavior. Approved for Winter 1994. Change in credit hours from "1 hour lab" to ".5 hour lab and .5 hour lecture".

CC1 3697, Ceramic Engineering 111, Ceramic Materials Lab I - Character of Materials. Approved for Fall 1993. Change in credit hours from "1 hour lab" to ".5 hour lecture and .5 hour lab".

CC1 3698, Petroleum Engineering 232, Well Logging I. Approved for Fall 1993. Change in credit hours from "2 hours lecture and 1 hour lab" to "3 hours lecture".

CC1 3699, Mining Engineering. Approved change in curriculum effective Fall 1993. Justification reads: Changed the semester of offering of Coal Mining (Min.343) and Principles of Explosive Engineering (Min.307) to accommodate mining students wishing to take Principles of Mineral Dressing in their Junior year. In March of 1991 the Academic Council approved an emphasis area in Quarry Engineering. Unfortunately, this was never forwarded to Columbia and so the approval process was never completed. However, this has now been forwarded to Columbia. Part of the present curriculum change involves a minor modification in this emphasis area.
CC1 3700, Engineering Management 372, Production Planning and Scheduling. Approved for Fall 1993. Change in credit hours from "2 hours lecture and 1 hour lab" to "3 hours lecture". Change in description to: Introduction to basic techniques of scheduling, manufacturing planning and control, just-in-time systems, capacity management, master production scheduling, single machine processing, constructive algorithms for flow-shops, scheduling heuristics, intelligent scheduling systems are the topics covered.

CC1 3702, Civil Engineering. Approved change in curriculum effective Fall 1993. Justification reads: Specific courses for which a "C" grade is required will be listed as prerequisites with appropriate courses.

CC1 3703, Civil Engineering 205, Professional Guidance. Approved deletion of course effective Fall 1993.

CC1 3704, Civil Engineering 211, Transportation Engineering. Approved for Fall 1993. Change in prerequisites from "CE 001 with grade of "C" or better and preceded by or accompanied by CE 241" to "CE 001, preceded or accompanied by CE 241".

CC1 3705, Civil Engineering 215, Elementary Soil Mechanics. Approved for Fall 1993. Change in prerequisites from "GE Eng 50 with grade of "C" or better. Preceded or accompanied by BE 110, Engl. 160" to "GE 50, preceded or accompanied by BE 110, Engl 160".

CC1 3706, Civil Engineering 29, Foundation and Pavement Engineering. Approved for Fall 1993. Change in course title from Foundation Engineering I. Change in prerequisites from "CE 215 with grade of "C" or better" to "CE 215". Change in description to: The effect of subsoil conditions on the behavior and choice of foundations and pavement base courses. Topics include the design of foundations including the selection of foundation types, the analysis of bearing capacity and settlement of foundations and fills, soil exploration, and the behavior of base and subbases under pavements.

CC1 3707, Civil Engineering 233, Engineering Hydrology. Approved for Fall 1993. Change in prerequisites from "CE 230 with grade of "C" or better, preceded or accompanied by English 160" to "CE 230 with grade of C or better".

CC1 3708, Civil Engineering 235, Hydraulic Engineering. Approved for Fall 1993. Change in prerequisite from " CE 233, with grade of "C" or better preceded or accompanied by English 160" to " CE 233, preceded or accompanied by English 160".

CC1 3709, Civil Engineering 243, Engineering Law and Contracts. Approved deletion effective Fall 1993.

CC1 3710, Civil Engineering 249, Legal/Professional Aspects of Engineering Practice. A motion was made to table and died for lack of a second. Passed 2-1. Approved for Fall 1993. Change in course
title from Legal/Professional Aspects of Civil Engineering.

CC1 3711, Civil Engineering 265, Water & Waste Water Engineering. Approved for Fall 1993. Change in prerequisites from 'CE 261 with grade of "C" or better' to "CE 261".

CC1 3712, Chemical Engineering 261, Industrial Instrumentation. Approved for Fall 1993. Change in prerequisites from "Math/Stat 204, ChE 231, ChE 233, accompanied by ChE 262" to "Math/Stat 204 or 229, ChE 231, ChE 233, Preceded or accompanied by ChE 262.

CC1 3713, Chemical Engineering 262, Industrial Instrumentation Lab. Approved for Fall 1993. Change in prerequisites from "ChE 20 or ChE 234, accompanied by ChE 261" to "Preceded or accompanied by ChE 234 or ChE 236, accompanied by ChE 261. (In the summer, the requirement that ChE 262 be accompanied by ChE 261 can be waived.)

CC1 3714, Electrical Engineering 212, Electrical Engineering Laboratory I. Approved for Fall 1993. Change in description to: Basic measurements and meters; theory of experimentation and use of electronic instruments. Safety is also emphasized.


CC1 3716, Metallurgical Engineering 375, Metallurgical Failure Analysis. Approved new course for Fall 1993. 3 hours credit. Prerequisites: Senior or Graduate Student standing. Description reads: Application of the principles of manufacturing and mechanical metallurgy for the analysis of failed components. Analytical techniques such as Scanning Electron Microscopy, Optical Metallography, and High Resolution Photography are used to characterize microstructure and fractographic features. In addition, appropriate methods to gather data, assimilate it, and draw conclusions from the data such that it will stand up in a court of law will be addressed.

CC1 3717, Petroleum Engineering 316, Production Applications. Approved for Fall 1993. Change in prerequisites from "PE 131, PE 141, Senior Standing" to "CE 230, PE 131, preceded or accompanied by PE 241". Change in description to: An introduction to production engineering topics: single and multi-phase flow through pipes; inflow performance; nodal systems analysis; perforating; acidizing; hydraulic fracturing; well completion equipment and practices; production logging; well servicing.

CC1 3718, Management Systems 397, Capstone Seminar in Management Systems. Approved new course for Fall 1993. 3 hours credit. Prerequisites: Senior standing as Management Systems major.
Description reads: Issues and problems relating to management and information technology will be presented. Group projects will require work as a member of a team, creative problem-solving and application of management systems principles to real and simulated problems.

CC1 3719, Engineering Management 344, Interdisciplinary Problems in Manufacturing Automation. Approved for Fall 1993. Change in prerequisites from "EMgt 334 or ME 355 or approved preparatory courses in ChE or EE" to "EMgt 334 or ME 355 or consent of instructor". Description changed to: Introduction to basic techniques and skills for concurrent engineering, manufacturing strategies, product design, process planning, manufacturing data management and communication are the topics covered. Students experiment with the design process through team projects and structured manufacturing laboratory work.

Selden Trimble, Chair
The Florida Communication Association
welcomes colleagues to the 1993 SCA Convention

Shirley, please refer this to Student Affairs Committee - ask for:
report at April meeting. Apologize for late deadline.
Thank you.
March 23, 1993

Memo To: Lance Haynes, President - Academic Council
From: Benjamin Steltenpohl, President - Student Council
Re: Student’s Expectations, Rights and Responsibilities Statement

In February, the attached statement was passed by Student Council and sent to various other student organizations for comments and support. The Student Expectations Statement was drafted in response to the student "Bill of Rights" brought before Council two years ago.

The intent for this document is to be published in the Student Handbook for informational and educational purposes. I’m passing this along to you for Academic Council’s information and would appreciate any comments you may have. In order to meet my deadline for the Student Handbook, I would appreciate any input you may have by the end of April.

As always, we appreciate your assistance.

BS:ck
Enclosure

cc: Camille Consolvo
UMR strives to provide an environment in which students may develop as effective citizens and thoughtful, productive members of society. Freedom of expression and inquiry are essential elements of the University community. All members of the campus community share the responsibility to create general conditions conducive to the freedom to learn.

The University of Missouri-Rolla (UMR) is responsible for meeting Missouri's needs for engineering education. UMR offers residential programs that include a full range of engineering and science degrees and complementary liberal arts degrees and programs. This institution has the responsibility to provide quality instruction, develop high standards of achievement and provide an atmosphere for self-expression and growth through a wide range of curricular and co-curricular activities.

Students should strive to develop the capacity for critical judgment and the ability to engage in an independent search for truth while endeavoring to exercise their freedom with maturity and responsibility. The following Student Expectations, Rights, and Responsibilities Statement is provided to educate students, faculty and staff on expectations of behavior while engaged in this development. It is not intended to be used as a guideline for disciplinary action or as University rules and regulations. Questions or concerns should be directed to the Student Council (StuCo) Complaint Hotline, 341-6421, 202 University Center-West, or the Office of Student Affairs, 341-4292, 106 Norwood Hall.

**EXPECTATIONS**

Members of the campus community should subscribe to certain ideals and strive for the level of achievement and virtue as defined by the following:

- **Practice personal and academic integrity**
  
  *Examples of integrity include honesty, truthfulness, and preparing one's own work.*

- **Respect the rights and property of others**

  *Examples include respect for other's property, a person's right to move about freely, express oneself appropriately, and enjoy privacy.*

- **Respect the dignity of all people and learn from the differences in people, ideas, and opinions**

  *Examples of respect are those behaviors that do not demean the dignity of individuals or groups, such as hazing, harassment, and discrimination. Learning from differences is demonstrated by affirmative support for equal rights and opportunities for all students, faculty and staff.*

- **Demonstrate concern for others and their feelings, for conditions which support their work and development, and discouragement of behaviors which threaten the freedom and respect of UMR community members**

  *This concern is demonstrated by avoiding behaviors which unjustly inhibit another's ability to feel safe or welcome in their pursuit of appropriate academic goals.*
RIGHTS AND RESPONSIBILITIES

• Right to freedom of access to higher education and the responsibility to conduct oneself in a manner compatible with the University's mission as an institution of higher education

• Right to freedom from discrimination on the basis of individual characteristics not related to academic success and the responsibility to be respectful of students, faculty, staff, and other groups

• Right to freedom from infringement of rights by others through sexual, racial, or other forms of harassment and the responsibility to express grievances, complaints, and inquiries to the Office of Student Affairs, the Affirmative Action Office and/or the Student Council Office

• Right to respectful treatment by faculty and staff and the responsibility to respect conditions conducive to learning

• Right to know how one will be evaluated in a course and to have that evaluation based solely on academic performance (e.g., grades, homework, attendance) and the responsibility to learn the content of any course in which one is enrolled

• Freedom or protection from prejudiced or "capricious" academic evaluation and the right and the responsibility to appeal capricious grading through proper University channels

• Freedom to make academic decisions such as course selection and number of credit hours and the responsibility to use information from faculty and one's own judgment to make sound academic decisions

• Right to participate in the evaluation process to improve classroom teaching and the responsibility to evaluate faculty with thought and care

• Responsibility to fulfill degree requirements as published in the UMR Bulletin

• Responsibility to maintain the standards of academic performance established for each course in which one is enrolled

• Right to know, when possible, who is teaching a course prior to registration

• Freedom to respectfully disagree with data or views presented in class and to reserve judgment about matters of opinion and the responsibility to develop critical thinking skills

• Freedom to examine and discuss all questions of individual interest, and to express opinions publicly and/or privately

• Right to petition for a change of academic advisor

• Right to representation in student matters through Student Council and various committees of the University and the responsibility to actively participate in Student Council through one's Student Council representative

• Right to participate in development and application of institutional policy through clearly defined methods

• Freedom to invite and hear any lecturer of one's own choosing and the responsibility to follow University procedures in issuing such an invitation
To: UMR Faculty

Academic Council Meeting
Thursday, March 25, 1993; 1:30 p.m.; G-5 H/SS

I. Approval of minutes of the February 25, 1993 meeting

II. Reports and Responses

A. President's Report (10 minutes) Randy Moss
B. Chancellor's Report (10 minutes) John Park
   [10 Minutes for Questions & Answers]
C. IFC Report (5 minutes) Vince Roach

III. Reports of Standing and Special Committees

A. Admissions and Academic Standards (No report) Dale Elifrits
   1. English Language Abilities (11/21/91)
   2. Proposed Change in Academic Probation (10/29/92)
   3. Delayed (DEL) Grades & Special Topics Courses (10/29/92)
   4. Rule Change - Students dropped by Instructor (11/19/92)
   5. Student Advising (01/21/93)

B. Budgetary Affairs Committee (No report) Al Crosbie
   1. UMR Salaries (04/23/92)

C. Curricula (5 minutes) Selden Trimble
   *1. Report No. 6
   2. General Education Requirements (02/25/93)

D. *AD HOC Committee on General Education Requirements (10 minutes) Keith Stanek

IV. Old Business -

V. New Business & Announcements -

* Information distributed with agenda to Academic Council members and department chairs.
XXII, 6. The meeting was called to order at 1:30 p.m. by Professor Randy Moss, President of the Academic Council. Substitutions were noted: Professor Stephenson for Professor Westphal and Professor Barker for Professor Koval.

The minutes of the February 25, 1993 meeting were approved as distributed.

XXII, 6. REPORTS AND RESPONSES

.2A PRESIDENT'S REPORT: President Moss briefly discussed what entailed at the recent Board of Curators meeting. 1) The Curator's decided to choose the selective category from the CBHE admission categories for the entire university system, with an amendment added to the wording stated the University of Missouri would implement the selective admission standards but standards would be implemented and applied in a manner consistent with the university's enrollment management policy. 2) A Sexual Harassment Policy was approved by the Board of Curators with a change from this policy from another one regarding time limits. 3) Campus plans for financing program improvements. This issue was discussed regarding budget cuts on the different campuses, but there were no additional budget cuts on this campus or no major academic program cuts on any of the other campuses other than various budget cuts. At the IFC meeting President Moss brought before that committee the issue of endowed chairs as he was directed to do by the Academic Council. This issue was discussed with President Russell who felt this was the only way he could sell this program to the legislature. General Education requirements was discussed with all the campuses submitting to President Russell, none of the campuses required foreign language.

.2B CHANCELLOR'S REPORT: Chancellor Park reported on several items as follows: 1) A meeting was held regarding a Curricular Task Force it needs to be recognized that the university needs to look at the entire curricula in order to be prepared to meet AVT requirements in the future. 2) Rumors regarding the Budget. Chancellor Park had a chance to listen to the Governor's issues to meet the needs of elementary and secondary education. If things are going as predicted the university should end up with a 2.3 increase but the Board of Curators have determined UMR would meet the heavy price index relative to salaries, etc. which means this campus will be about $900,000 short of balancing the budget requiring additional reallocations. Questions and discussion ensued.

.2C IFC REPORT: Professor Roach reported on the following items that were discussed at the recent IFC meeting: 1) Endowed chairs. 2) University-Wide Tenure Committee; 3) Task Force for the 21st Century; 4) General Education Requirements and 5) Integrated Data System.

XXII, 6 REPORTS OF STANDING AND SPECIAL COMMITTEES

.3A CURRICULA: Professor Trimble, Chair of the committee presented the committee's report (copy attached to agenda). A motion was made and seconded to approve the EC1's and CCT1's as distributed. The motion was approved.

.3B AD HOC COMMITTEE-GENERAL EDUCATION REQUIREMENTS: Professor Stanek, Chair of the Committee presented the Committee's report (copy attached to agenda). Discussion and any questions were solicited. A motion was made and seconded to amend the report to change the wording. The word "must" would change to "should" in all sentences to be consistent. The motion passed. A motion was made and seconded to amend the second page (3rd paragraph) under Communication Skills Implementation, change the third and subsequent sentences as follows: "The proposed Center for Writing Technologies should be established and, together with the Oral Communication Center, charged to provide the necessary assistance to faculty responsible for developing such course. The centers would provide individual assistance to students and faculty in establishing standards for good writing and oral communication, as well as methods for evaluating all forms of communication. RATIONALE: The draft implied that the Center for Writing Technologies would be responsible for oral, as well as written, communication. Note that the Oral Communication Center is already in operation." The motion to amend passed. A motion was made and seconded to allow the committee to make editorial changes in the document without changing the meaning. The motion passed. Discussion ensued. A motion was made and seconded to approve the report with amendments and to charge the committee to make editorial changes within the document. The motion passed.
RIGHTS AND RESPONSIBILITIES (cont’d)

• Right to use University facilities and the responsibility to reserve University facilities through proper procedures on a "first reserved, first served" basis and to respect University property and maintain proper care of University facilities

• Right to organize and join student organizations which promote one’s common interests and which are open to all students and the responsibility to submit a statement of purpose, criteria for membership, rules of procedures, and a current list of officers for recognized student organizations

• Freedom from censorship, advance approval of copy and development of one’s own editorial policies and news coverage in the student press and the responsibility of student publications to be aware of material which may offend audiences

• Right to freedom of speech, peaceful assembly and right of petition and the responsibility to respect other’s freedom of speech, peaceful assembly and right of petition

• Right to organize orderly demonstrations, debates, forums, parades, rallies, peaceful protests and similar activities and the responsibility to schedule such events through the Student Activities Office

• Right to confidentiality of information about one’s views, beliefs, and life situations that are collected by instructors, advisers, and counselors

• Right of access to a process for restricting the University’s use of a student’s address and phone number and the responsibility to make proper use of this process for restricting use of a student’s address and phone number

• Right to receipt of campus services such as academic advising, health, counseling, and career placement services

• Right to confidentiality of disciplinary and counseling records without one’s written consent except under legal compulsion or where the safety of persons or property is involved

• Right to due process in disciplinary situations and to be informed of what sanctions may be imposed and the responsibility to read UMR’s policies, rules, and regulations

• Right to be informed of one’s rights if accused of violating the student code of conduct and the responsibility to know and obey University rules and regulations

• Right to appeal decisions on any imposed disciplinary sanctions through an appeal procedure that is clearly formulated and communicated in advance

• Responsibility to know and obey local, state and federal laws and face penalties as prescribed by civil authorities if one violates these laws

• Responsibility to know that the University disciplinary process is separate from the legal process

• Responsibility to share information one may have regarding other students who violate University policy
The following student organizations have all endorsed the Expectations, Rights and Responsibilities Statement:

Student Council
Zeta Tau Alpha
Tae Kwon Do Club
Association of Engineering Geologists
Society of Manufacturing Engineers
Intervarsity Christian Fellowship
Phi Kappa Theta
Pi Kappa Alpha
Hang Gliding Club
Associated General Contractors
UMR Water Polo Club
Sigma Nu
Kappa Sigma
Gamma Alpha Delta
Lambda Chi Alpha
Student Association of Management Systems
Chi Omega
American Nuclear Society
Newman Center
Interfraternity Council (IFC)
Thomas Jefferson Hall Association (TJHA)
International Student Club (ISC)
Kappa Delta
Society of Metallurgical Engineering
Institute of Electrical and Electronic Engineers (IEEE)
M-Club
Intramural Managers Association
Society of Women's Engineering (SWE)
Eta Kappa Nu
XXII.6. OLD BUSINESS

Linda Martin, Chair of Student Affairs Committee presented a Constitution that was tabled at the February 25, 1993 meeting. A motion was made and seconded to bring this item off the table. The motion passed. After discussion and question on this Constitution a motion was made and seconded to table this item for further clarification of the membership. The motion passed.

XXII.6. NEW BUSINESS

Professor Trimble presented a letter to the Academic Council from the Math and Statistics Department regarding the use of calculators in all courses and lectures. Professor Trimble mentioned that members of these department would be visiting other departments to investigate and determine the feasibility of requiring students to purchase specific calculators. Any information or comments regarding this issue should be sent to the Math and Statistics Department.

A motion was made and seconded to pass a vote of thanks and appreciation to the AD HOC Committee on General Education for their time and efforts in preparing and presenting the General Education Requirements report. The motion passed.

A motion was made and seconded to adjourn. The motion passed.

Respectfully submitted,

Christopher Ramsay,
Secretary
Academic Council

Minutes of the Academic Council are considered official notification and documentation of actions approved.
Minutes of the April 8, 1993 Meeting of the Admissions and Academic Standards Committee

Agenda Item #1: ENGLISH LANGUAGE ABILITIES

It was moved, and passed unanimously, that the Committee recommended to RPA that an ad hoc committee be formed, with appropriate specialists, to study for a period of approximately one (1) year, the desirability of setting minimum English requirements (both written and spoken) for the campus. This study is to be for undergraduate and graduate students. The ad hoc committee should report to the Academic Council the results of the study and make recommendations. The AASC recommends that Professor Lance Hayes be a member of the committee.

Agenda Item #2: PROPOSED CHANGE IN ACADEMIC PROBATION

The Committee approved the proposal of D. R. Fannin, and recommends that the Council adopt the new regulation effective Fall 1993 for a three (3) year trial period. The change to the Manual of Information is in Section 1x.2.a.

1x. Unsatisfactory Work
   •
   •

2. Average Grade Requirements
   •
   •
   a. 1. Dropped from the University if record includes one or more F's or U's and no credit hour grade higher than D.
   2. Probation if semester or cumulative GPA is less than 2.0.
   3. But not if present semester average is above 2.2.

Agenda Item #3: NO ACTION TAKEN

Agenda Item #4: STUDENTS DROPPED BY INSTRUCTOR

The Committee recommends that the temporary action taken by the Council in January and approved by Chancellor Park be made permanent. This action changes the Academic Regulation so that an instructor-initiated withdrawal of a student from a course during the period after the sixth week of the semester (3 weeks of a summer session), but prior to the last three weeks of classes will have a withdrawal placed on the transcript. In the period of the last three weeks of class, and during the so called Final Examination week, neither the student or the instructor may effect a withdrawal from the course.

The action necessary to accomplish this is as follows:
   Replace the last sentence of V.a. which states
   "A final grade of "F" will be recorded if you are dropped after that period unless unconventional circumstances are certified by the Chairman of the department teaching the course."

   Replace the last sentence with the following:
   "During the period after six (6) weeks of a semester and prior to three (3) weeks before the end of classes, a withdrawal will be recorded on the transcript if you are dropped from the course by the instructor. The instructor may not effect a withdrawal from the course during the period three (3) week before the end of classes through the Final Examination Week (so called)."
Agenda Item #5: STUDENT ADVISING

The Committee feels it is the faculties responsibility to advise students whether the students want to be advised or not. This also appears to be the feeling of the Board of Curators.

The Committee recommends no change in our current regulations that require an authorized faculty advisor (or a designate) approve a student's schedule.

New Item III: STUDENT COUNCIL'S PROPOSAL OF A STUDENT EVALUATION OF TEACHING

The Committee does not recommend the adoption of the Student Council proposal. The main objectives are as follows:

a) Students are not in a position to competently evaluate the educational value of a course. That is why they are called students.

b) Students do not have the sufficient professional development to judge whether an instructor has the ability to teach the topic. That is the Dean's and Department Chairman's responsibility.
The meeting was called to order at 1:30 p.m. by Professor Randy Moss, President of the Academic Council. Substitutions were noted: Professor Stephenson for Professor Westphal and Professor Barker for Professor Koval.

The minutes of the February 25, 1993 meeting were approved as distributed.

REPORTS AND RESPONSES

Presidents Report: President Moss Briefly discussed the recent Board of Curators meeting. The board made several recommendations; 1. The Board choose the CBHE "Selective" category as the most appropriate one for the University. They added an amendment stating that the University of Missouri would implement the standard in a manner consistent with the enrollment management policy. In other words, UMR can maintain its current admission standards even though they are significantly higher than standards indicated by the "Selective" category. Indeed, UMR's standards are consistent with the "Highly Selective" category. 2. The Board of Curators approved a Sexual Harassment Policy, copies of the policy can be obtained from the Academic Council Office. 3. The Board discussed plans for financing program improvements. No additional budget cuts nor academic program cuts are in store for this campus. 4. The issue of endowed chairs was discussed at the IFC meeting (as was requested by the Academic Council). President Russell did not feel he could change the structure of that program. 5. General Education requirement were discussed at the IFC meeting with President Russell. None of the campuses endorsed a foreign language requirement. President Russell indicated that he would anticipate that the Board would not agree with the campuses.

Chancellor’s Report: Chancellor Park reported on several items: 1. A Curricula Task Force will evaluate the curricula with the goal of preparing the curricula of the future. 2. Chancellor Park said that the University leadership currently expects a 2.3% increase in the budget. If the Board of Curators determine that UMR should meet the price index relative to salaries, the consequence would be a shortfall in the budget of approximately $900,000. A shortfall of this magnitude would require additional re-allocations.

IFC REPORT: Professor Roach reported on the following items that were discussed at the recent IFC meeting: 1) Endowed chairs. 2) University-Wide Tenure Committee; 3) Task Force for the 21st Century; 4) General Education Requirements and 5) Integrated Data System.

REPORTS OF STANDING AND SPECIAL COMMITTEES

CURRICULA: Professor Trimble, Chair of the committee presented the committee's report (copy attached to agenda). A motion was made and seconded to approve the ECI’s and CCI’s as distributed. The motion was approved.
AD HOC COMMITTEE-GENERAL EDUCATION REQUIREMENTS.
Professor Stanek, Chair of the Committee presented the Committee's report (copy attached to agenda). Discussion and any questions were solicited. A motion was made and seconded to amend the report to change the wording. The word "must" would change to "should" in all sentences to be consistent. The motion passed. A motion was made and seconded to amend the second page (3rd paragraph) under Communication Skills Implementation, change the third and subsequent sentences as follows: "The proposed Center for Writing Technologies should be established and, together with the Oral Communication Center, charged to provide the necessary assistance to faculty responsible for developing such course. The centers would provide individual assistance to students and faculty in establishing standards for good writing and oral communication, as well written, communication. Note that the Oral Communication Center is already in operation." The motion to amend passed. A motion was made and seconded to allow the committee to make editorial changes in the document without changing the meaning. The motion passed. Discussion ensued. A motion was made and seconded to approve the report with amendments and to charge the committee to make editorial changes within the document. The motion passed.

OLD BUSINESS

Linda Martin, Chair of Student Affairs Committee presented a Constitution that was tabled at the February 25, 1993 meeting. A motion was made and seconded to bring this item off the table. The motion passed. After discussion and question on this Constitution, a motion was made and seconded to table this item for further clarification of the membership. The motion passed.

NEW BUSINESS

Professor Trimble presented a letter to the Academic Council from the Math and Statistics Department regarding the use of calculators in all courses and lectures. Professor Trimble mentioned that members of these departments would be visiting other departments to investigate and determine the feasibility of requiring students to purchase specific calculators. Any information or comments regarding this issue should be sent to the Math and Statistics Department.

A motion was made and seconded to pass a vote of thanks and appreciation to the AD HOC Committee on General Education for their time and efforts in preparing and presenting the General Education Requirements report. The motion passed.

A motion was made and seconded to adjourn. The motion passed.

Respectfully submitted,

Christopher Ramsay, Secretary
Academic Council

Minutes of the Academic Council are considered official notification and documentation of actions approved.
MEMO TO: ACADEMIC COUNCIL

FROM: CURRICULA COMMITTEE

SUBJECT: APRIL 15, 1993

For the information of the Academic Council, the following EC1's have been submitted by the University departments for experimental courses that will be offered in the near future.

EC1's Reviewed:

EC1 455, Electrical Engineering 301, Introduction to Optical Computing. Approved for Fall 1993. 3 hours credit. Prerequisites: EE 211 (EE 273 co-requisite.) (This course was offered WS92.)

EC1 456, Physical Education 101, Basketball/Volleyball. Approved for Fall 1993. 1 hour credit. No prerequisites. (This course was offered FS92.) The committee was assured by Sarah Preston that this course would not be taken by athletes.

EC1 457, Computer Science 301, Cryptography and Computer Security. Approved for Winter 1994. 3 hours credit. Prerequisites: CSci 253 and Math 22. (This course was offered FS92.)

EC1 458, Engineering Management 401, Advanced Manufacturing Through Neural Networks. Approved for Fall 1993. 3 hours credit. Prerequisites: EMgt. 378 or Equivalent Neural Network Course. (This course was offered FS92.)

EC1 459, Electrical Engineering 201, Electric Machines. Approved for Fall 1993. 3 hours credit. Prerequisites: Physics 24, Math 204 or 229.

EC1 460, Electrical Engineering 301, Introduction to Fiber Optic Communication Systems. Approved for Fall 1993. 3 hours credit. Prerequisites: EE 243.

EC1 461, Computer Science 201, Computer Programming. Approved for Summer 1993. 2 hours lecture and 1 hour lab. Prerequisites: CSci 53 or CSci 73.

EC1 462, Speech & Media Studies 301, College Teaching. Approved for Fall 1993. 1 hour credit. Prerequisites: Senior or graduate status. (Offered FS92 as Teaching Enrichment Program, no credit.) A memo is attached from Larry Gragg, Chair of History and Political
Science. The department believes this course involved an inappropriate experience for college credit. Based on the course description, it appears that the activities involved are typical workshop, not course activities. The department hopes the above concerns are considered should the course come before the committee in a CC1 form.

EC1 463, Chemistry 301, Principles of Environmental Monitoring. (Co-listed with Physics 301). Approved for Fall 1993. 3 hours credit. Prerequisites: General Chemistry and/or General Physics.

EC1 464, Physics 301, Principles of Environmental Monitoring. (Co-listed with Chemistry 301). Approved for Fall 1993. 3 hours credit. Prerequisites: General Chemistry and/or General Physics.

EC1 466, Electrical Engineering 301, Neural Networks for Control. Approved for Fall 1993. 2 hours lecture and 1 hour lab. Prerequisites: EE 231. (Offered FS92 as Identification and Control Using Neural Networks.)

EC1 467, Mechanical Engineering 401, Introduction to Nonlinear Dynamical Systems and Chaos. Approved for Fall 1993. 3 hours credit. Prerequisites: Me 307 or 313, Math 308. (Offered FS92 as Introduction to Applied Nonlinear Dynamical Systems and Chaos.)

EC1 468, Mechanical Engineering 401, Advanced Convective Heat Transfer. Approved for Fall 1993. 3 hours credit. Prerequisites: ME or AE 427. (This course was offered FS91.) Course was submitted with the title of Special Topics in Adv. Conv. Heat Transfer but was changed to the above with Dr. Chen's approval.

The Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

CC1's Reviewed:

CC1 3727, Mining Engineering 343. Coal Mine Development & Production. Approved for Fall 1993. Change in credit hours from "2 hours lecture and 1 hour lab" to "3 hours credit."

CC1 3728, Civil Engineering. Curriculum. Approved change in title of MS program. From "Master of Science Degree in Environmental and Planning Engineering" to "Master of Science Degree in Environmental Engineering". A copy of this CC1 was forwarded to Virginia Ryle in Dr. Glen Haddock's office.

CC1 3729, Chemical Engineering 258, Chemical Process Safety. Approved for Fall 1993. Change in course number from "358". Change in prerequisites from "Chemical Engineering Senior" to "Preceded or accompanied by ChE 243."

CC1 3730, Mathematics & Statistics, Stat 346, Regression Analysis. Approved for Fall 1993. Change in course title from Time Series...
and Regression Analysis. Change in course description to: Simple linear regression, multiple regression, regression diagnostics, multicollinearity, measures of influence and leverage, model selection techniques, polynomial models, regression with autocorrelated errors, introduction to nonlinear regression.

CC1 3731, Mathematics & Statistics 443, Nonparametric Statistical Methods. Approved for Fall 1993. Change in course title from Advanced Statistical Methods I. Change in description to: A course covering distribution free statistical methods. Topics include: Order statistics, tests of hypotheses for one-sample and two-sample problems, analyses of variance, goodness-of-fit tests, runs test, independence and regression problems, point and interval estimation, ARE.


Dr. Selden Trimble, Chair
To: UMR Faculty

Academic Council Meeting
Thursday, April 29, 1993; 1:30 p.m.; G-5 H/SS

I. Approval of minutes of the March 25, 1993 meeting

II. Reports and Responses
A. President’s Report (5 minutes) Randy Moss
B. Referrals
   1. Student Council Questionnaire to Personnel
C. Chancellor’s Report (10 minutes) John Park
   [10 Minutes for Questions & Answers]
D. IFC Report (10 minutes) Randy Moss

III. Reports of Standing and Special Committees
A. Admissions and Academic Standards (10 minutes) Dale Elifrits
   1. English Language Abilities (11/21/91)
   2. Proposed Change in Academic Probation (10/29/92)
   3. Delayed (DEL) Grades & Special Topics Courses (10/29/92)
   4. Rule Change - Students dropped by Instructor (11/19/92)
   5. Student Advising (01/21/93)
B. Budgetary Affairs Committee (No Report) Al Crosbie
   1. UMR Salaries (04/23/92)
C. Curricula (5 minutes) Selden Trimble
   * 1. Report No. 7
      2. General Education Requirements (02/25/93)
D. Library and Learning Resources (5 minutes) Joseph Newkirk
D. Personnel (No Report) Lance Haynes
   1. Student Council Questionnaire
E. RP&A (5 minutes) Ray Edwards
   * 1. Change in June Meeting Dates for RP&A and Academic Council
      2. Academic Year 1993-94 Meeting Dates
F. Student Affairs (5 minutes) Linda Martin
      * 2. Constitutionu- Mathematical Association of America-UMR

IV. Old Business
V. New Business & Announcements -

Information distributed with agenda to Academic Council members and department chairs.

an equal opportunity institution
XXII, 7 The meeting was called to order at 1:30 PM by Professor Randy Moss, Academic Council President.

The minutes of the March 25, 1993 meeting were approved with two typographical corrections.

XXII, 7 REPORTS AND RESPONSES

2A PRESIDENT'S REPORT: President Moss informed all present of the invitations sent to Academic Council Members regarding the breakfast for the Board of Curators on Thursday, May 6. In addition, an invitation has been distributed to attend a special forum on Medical Insurance with Vice President McGill. The forum will take place May 3 in Centennial Hall at 12:00 p.m.; Professor Moss encouraged all to attend. Finally, Professor Moss announced a meeting of the Academic Affairs Committee of the Board of Curators set for Monday, May 3, in Kansas City. Professor Moss would be in attendance along with other IFC Representatives. Three items are on the agenda: 1) The UMC Report on Student Advising; 2) The Campus plans for implementation of the General Education Requirements and 3) Recruitment and Retention of Minority Students, Faculty, and Staff.

2B REFERRALS: 1) Student Council Questionnaire to the Personnel Committee, 2) A memo from Gordon Kimber of UMC, regarding a System-Wide Evaluation of Administrators to the Personnel Committee.

2C CHANCELLOR'S REPORT: Chancellor Park introduced Dr. Lee Saperstein, who will become Dean of the School of Mines and Metallurgy the first of July. Dr. Park recognized and extended his thanks to Don Warner for his service to the School of Mines and to the University during the search for a new Dean. Dr. Park went on to discuss several items:
ITEM 1 - The UMR Smoke Free Policy is effective on May 16th.
ITEM 2 - The Curriculum Task Force will consist of three components. The first is a large advisory group consisting of departmental representatives and essentially anyone who is willing to help and wants to contribute. This advisory group is to develop information and keep the lines of communication open. The second component is an Executive Committee made up of a seven faculty members. The Executive Committee will serve in a managerial function. The third component will consist of the Vice Chancellor for Academic Affairs and the three Deans. Their charge will be to make sure that resources are in place when needed. The first meeting of the Task force will take place on May 12 and is open to anyone who is willing and wishes to contribute.
ITEM 3 - General Education will be discussed at the Board of Curators Meeting. The language requirement will be discussed. In addition, the Board is requiring that we justify our enrollment management plans.
ITEM 4 - Budget: the Legislature has approved a bill that provides an increase of approximately 3%. The bill has been signed by the Governor. The bill includes increases for maintenance expenses. The Legislature is wrestling with the issue of Elementary and Secondary Education and, while the legislature has settled on a resolution to the problem they have not yet agreed on a method to finance it; a tax bill will be required.
ITEM 5 - Work is being done on Zero Base budgeting.

2D IFC REPORT: Professor Moss gave the IFC Report and stated that there were three items discussed at the IFC meeting. 1) Health care benefits, 2) General Education Implementation and 3) Position papers that IFC is writing. The only paper ready for discussion is the one on Ethics and Professionalism.

XXII, 7 REPORTS OF STANDING AND SPECIAL COMMITTEES

3A ADMISSIONS AND ACADEMIC STANDARDS: ITEM 1 - Professor Elifrits moved that the Academic Council accept the recommendation of the Committee regarding English Language Abilities as
outlined in the committee's report. The committee recommended that RP&A Committee set up an ad-hoc committee with appropriate specialists to study the possibility of setting minimum English requirements for the campus. This study is to include both undergraduate and graduate students. The AASC recommended Professor Haynes be on that committee and that this item be removed from the agenda. The motion was seconded. An amendment to include representatives from the English Department on the committee, Amendment seconded, and passed. The main motion was approved by a voice vote.

ITEM 2 - Professor Elifrits moved to accept the Committee's recommendation on Proposed Change in Academic Probation and remove this item from the agenda. An amendment to include an editorial change was recommended in Paragraph 2.a.3. to change the word "present" to "current". Both the amendment and main motion were approved.

ITEM 3 - No action necessary.

ITEM 4 - A motion was made to accept the committee's recommendation and remove this item from the agenda. Professor Herrick moved that the word "optional" be added before the words "Final Examination Week"; however, the motion failed. Another motion was made to delete the words "(so called)" in last sentence of the last paragraph. Another editorial change was made to the last sentence to read: "The instructor may not effect a withdrawal from the course during the last three (3) weeks or during Final Examination Week". The amendments and the main motion were approved.

ITEM 5 - A motion made to accept the committee's recommendation and remove from the agenda the item on Student Advising. The committee recommends no change in the current regulations. The motion was seconded and passed.

3C CURRICULA: Professor Trimble, Chair of the Committee presented the report. A motion was made to approve the CCl's and the report of the committee. The motion was seconded and passed.

3D LIBRARY & LEARNING RESOURCES: Professor Newkirk gave a review of the committee's action plan regarding the Questionnaire circulated to the faculty by Jean Eisenman, Director of the Library & Learning Resource, on ranking of Journals and the overall budget of the Library.

3E RULES, PROCEDURES & AGENDA: ITEM 1 - Professor Edwards gave a brief summary of the date changes in June for the RP&A meeting and Academic Council meeting because of the change in the date of the Board of Curators meeting. A motion was made and seconded to approve the meeting date changes. The motion passed.

ITEM 2 - A motion was made and seconded to approve meeting dates for next year. The motion passed.

3F STUDENT AFFAIRS: ITEM 1 - A motion was made to remove from the table the Constitution on Rites of KEMET. The motion was seconded and passed. A motion was made and seconded to approve the revised version of the Constitution on Rites of KEMET. The motion passed.

ITEM 2 - A motion was made and seconded to approve the constitution of Mathematical Association of America-UMR, Rolla. The motion passed.

XXII, 7 OLD BUSINESS:

4 None

XXII, 7 NEW BUSINESS:

5 None

A Motion was made and seconded to adjourn. The motion passed.

Respectfully submitted,

Christopher Ramsay,
Secretary, Academic Council

* Minutes of the Academic Council are considered official notification and documentation of actions approved.
Last year the Academic Affairs Committee of Student Council started looking into the possibility of trying to get the results of the teacher evaluation questionnaires made available to students. To find out the faculty opinion on this issue, we surveyed over 100 faculty. The main objection to having the results of the questionnaires made available to students was that the same results were already being used as part of the evaluation process which determines salary raises and promotions, and should not be used by students. Because of this objection, we started looking into the possibility of doing our own teacher evaluation instead of trying to get the results of the university questionnaire. Instead of having the university questionnaire and the Student Council questionnaire on separate forms, we decided that it would be better to include them on the same form. To do this, we offer the following proposition:

A short Student Council questionnaire consisting of two questions shall be added to the common university questionnaire. Student Council shall be given the results of these two questions from each instructor and each course to make available to students. The questions shall be worded as follows:

1. Rate the educational value of the topics covered in this course.

2. Rate the instructor’s ability to teach the topics covered in this course.

We suggest the following reasons why this plan would be beneficial to both faculty and students.

1. Including our two questions on the current questionnaire would avoid taking up any additional class time by having a separate questionnaire.

2. Students would take the questionnaire more seriously if they received some type of feedback from the questionnaire.

3. There would be no problem adding these two questions to your current questionnaire because there are already two unused spaces at the bottom of the current questionnaire.

4. This plan would help us obtain much more accurate results of the students’ opinions than if we were to do a separate, more time consuming questionnaire.
Meeting Dates - Academic Year 1993-1994

General Faculty

August 31, 1993
December 7, 1993
May 3, 1994

Rules, Procedure & Agenda

September 2, 1993
October 7, 1993
November 4, 1993

January 6, 1994
February 10, 1994
March 10, 1994
April 14, 1994
June 9, 1994

Academic Council

September 16, 1993
October 21, 1993
November 18, 1993

January 20, 1994
February 24, 1994
March 24, 1994
April 28, 1994
June 23, 1994

Classes begin August 23, 1993
Thanksgiving Break November 24, 1993
Classes end December 10, 1993

Classes begin January 12, 1994
St. Pat’s March 17, 1994
Spring Break April 2, 1994
Classes end May 6, 1994

Board of Curator Meeting Dates

September 9-10, 1993
October 28-29, 1993
December 9-10, 1993
February 3-4, 1994
March 31-April 1, 1994
May 19-20, 1994
July 14-15, 1994
September 1-2, 1994
October 20-21, 1994
December 1-2, 1994
XXII, 8. The meeting was called to order at 1:30 PM by Professor Randy Moss, President of the Academic Council.

Substitutions noted, Professor Gelles for Professor Bryant.

.2A PRESIDENT'S REPORT - No presidents report.

.2B CHANCELLOR'S REPORT - Dr. Park reported on several items: 1) Last year, of Colleges and Universities, UMR had the highest salary increase of 11.1% the next highest was Yale with 7.9%. 2) The report from the University of Missouri Medical Insurance is completed. Copies will be sent to each departmental office. 3) At the July Board of Curators meeting UMR will be asked to prepare a report on Enrollment Management Plan. Our current plan was built in 1986. The short report will include a discussion of housing, faculty numbers, facilities and present a curve of the natural enrollment frequency under which the institution operates. If enrollment numbers become too large, the plan is to apply higher admissions standards for the following fall. 4) The Action Plan has been followed. Two areas to be emphasized next year are the Curricula Task Force and a Professional Development Plan for Students. 5) Dr. Park will prepare a report for President Russell that will briefly outline some of the good things that have been accomplished on this campus. The report will include repairs to exterior of buildings, work being done on interiors and classrooms, the five year plan is being followed, academic educational innovations excel on campus, academic enhancement centers are impacting student success, research grants were up 27% this year, and Gifts were up.

.2C IFC REPORT - Professor Moss briefly stated that IFC met on May 17 and would be meeting again June 18. One item discussed at that meeting was the length of time the promotion and tenure process was taking with regard to the U-Wide Committee. Health care was also discussed. President Moss also mentioned that most of the other items discussed at the meeting are already out of date.

Approval of the minutes of the April 19, 1993 meeting was called for, no corrections noted. A motion to approved was made, seconded and the motion carried to accept the minutes as distributed.
XXII, 8. REPORTS OF STANDING AND SPECIAL COMMITTEES

.3A Admissions and Academic Standards - Dr. Moss presented the report for Professor Elifrits, Chair of the committee. Discussion ensued but no action was taken.

.3B Budgetary Affairs - No report given, however attachments for information were included and distributed with the agenda. A motion was made and seconded that the two memos concerning faculty raises along with the table containing the data be distributed to all faculty. Voice vote taken on the motion, the motion passed.

.3C Curricula - Professor Trimble, Chair of the committee presented a report. A motion was made and seconded to approve the report. Voice vote taken on the motion, the motion passed. Second item; a motion was made to remove from the agenda the referral on General Education Requirements, the motion was seconded. Voice vote taken, the motion passed.

.3D RP&A - Professor Edwards stated that at the June 3 RP&A committee meeting an AD HOC Committee On English Requirements was discussed. The following Professors were asked to serve on this committee: Drs. Haynes (Chair), Herrick, Elifrits, Morgan, Ercal, Koval and Numbere.

XXII, 8. OLD BUSINESS:

.4 None

XXII, 8. NEW BUSINESS:

.5 Dr. Robertson asked that a referral be made to the Personnel Committee on the proposed electronic tabulation of work effort as suggested by U-Wide requiring exempt faculty to report how they use their time. The tabulation of work effort apparently includes all aspects from grading papers, preparing for exams, and working with others in the department. President Moss was unaware of the details but would be happy to refer this item to the Personnel Committee.

A motion was made and seconded to adjourn. The motion passed.

Respectfully submitted,

Christopher Ramsay
Secretary
Academic Council

*Minutes of the Academic Council meeting are considered official notification and documentation of actions approved.*
MEMO TO: John T. Park, UMR Chancellor

FROM: Al Crosbie, Chair of Budgetary Affairs Committee

RE: 1993-94 Salary Increases

May 24, 1993

In response to your inquiry of May 20, 1993, the Budgetary Affairs Committee met today to discuss salary distribution.

We are encouraged that you plan to follow the five year campus plan and distribute $600,000 for market adjustments of faculty and staff and $300,000 for performance/market adjustments of ranked faculty.

The committee makes the following observations and recommendations:

1. The salary goal for ranked faculty should remain the Big 8/10 average. This average should continue to be calculated by discipline and rank.

2. The "off-market" percentages between schools has increased markedly. Last year the variation was 1.7%, while this year it could be 4 or 5%. The primary reason appears to be that the Dean of A&S used his allocation for open positions to fund salary increases on filled positions. The two other deans should use their allocations on open positions to help get us back on track.

3. The variation by rank remains large. Our recommendation of last year seems to have been ignored. The assistant professors are only two percent "off-market," while the full professors are over 15 percent "off-market." This salary compression problem needs to be addressed aggressively.
MEMO TO: John T. Park, UMR Chancellor

FROM: Al Crosbie, Chair of Budgetary Affairs Committee

RE: 1993-94 Salary Increases

May 25, 1993

After our meeting on May 25, 1993, the Budgetary Affairs Committee met for a second time to discuss salary distribution. Your reservations about our recommendations were discussed along with the three distribution plans.

The committee's understanding of the campus goal is that each school and rank should reach the Big 8/10 averages. A significant variation from this goal could lead to severe morale problems on the campus.

The committee makes the following specific recommendations:

1. If you feel that M&M and Engineering do not have enough open positions to get us back on track, the committee recommends that you follow a distribution between schools based on the dollars "off-market" plan. The remaining variations between schools should be corrected by M&M and Engineering using their allocations on open positions.

2. The committee reaffirms its recommendation that the salary compression problem needs to be addressed aggressively. The assistant professors are only two percent "off-market," while the full professors are over 15 percent "off-market."
RANKED FACULTY
DIVISION SALARY DEFICIENCY CALCULATIONS

FALL 1991 UMR SALARIES (ADJUSTED FOR RETIREMENTS)
COMPARED TO BIG 8/10 SALARIES

<table>
<thead>
<tr>
<th></th>
<th>M&amp;M</th>
<th>ENG</th>
<th>A&amp;S</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof</td>
<td>20.7%</td>
<td>24.8%</td>
<td>23.7%</td>
<td>23.6%</td>
</tr>
<tr>
<td>Assoc Prof</td>
<td>21.4%</td>
<td>19.1%</td>
<td>16.1%</td>
<td>18.4%</td>
</tr>
<tr>
<td>Asst Prof</td>
<td>19.9%</td>
<td>13.1%</td>
<td>11.8%</td>
<td>13.4%</td>
</tr>
<tr>
<td>ALL</td>
<td>20.8%</td>
<td>21.0%</td>
<td>19.3%</td>
<td>20.3%</td>
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</table>

1992 SALARY ALLOCATIONS

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<th>A&amp;S</th>
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</thead>
<tbody>
<tr>
<td>ALL</td>
<td>10.36%</td>
<td>10.43%</td>
<td>9.89%</td>
<td>10.22%</td>
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1992 SALARY INCREASES

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<tr>
<td>ALL</td>
<td>10.98%</td>
<td>10.54%</td>
<td>13.75%</td>
<td>11.75%</td>
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FALL 1992 UMR SALARIES
COMPARED TO BIG 8/10 SALARIES
(BECAME AVAILABLE ON 6/03/93)

<table>
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<th>TOTAL</th>
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<td>15.8%</td>
<td>11.1%</td>
<td>14.5%</td>
</tr>
<tr>
<td>Assoc Prof</td>
<td>13.7%</td>
<td>12.1%</td>
<td>6.4%</td>
<td>9.9%</td>
</tr>
<tr>
<td>Asst Prof</td>
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<td>5.4%</td>
<td>-0.6%</td>
<td>3.2%</td>
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<tr>
<td>ALL</td>
<td>15.3%</td>
<td>13.0%</td>
<td>7.6%</td>
<td>11.4%</td>
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</table>

FALL 1992 UMR SALARIES
COMPARED TO AAU SALARIES
(BECAME AVAILABLE ON 5/20/93)

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<td>17.5%</td>
<td>12.9%</td>
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</tr>
<tr>
<td>Assoc Prof</td>
<td>9.6%</td>
<td>9.4%</td>
<td>6.3%</td>
<td>8.1%</td>
</tr>
<tr>
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<td>3.5%</td>
<td>-1.3%</td>
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<tr>
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<td>13.0%</td>
<td>8.5%</td>
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Memo To: Academic Council

From: Curricula Committee

Subject: Curricula Committee June 3, 1993 Meeting

For the information of the Academic Council, the following EC1's have been submitted by the University departments for experimental courses that will be offered in the near future.

EC1's Reviewed:

EC1 469, Chemical Engineering 301, Principles of Env. Monitoring. Approved for Fall 1993. 3 hours credit. Prerequisite: General Chemistry and/or General Physics.

EC1 470, Engineering Management 301, Engineering Design Optimization. Approved for Fall 1993. 3 hours credit. Prerequisite: Senior standing.

EC1 471, Engineering Management 401, Quality Engineering. Approved for Winter 1994. 3 hours credit. Prerequisite: Graduate Standing, Basic Statistics.

EC1 472, Missouri London Program 101ML, Urban Geography. Approved for Fall 1993. 3 hours credit. No prerequisites.

The Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

CC1 3720, Engineering Management 377, Expert Systems in Manufacturing and Engineering. (Co-list with CSci 377). Removed from table. Approved for Fall 1993. Change in catalog description to: Intelligent engineering system design using knowledge bases, knowledge based problem solving, symbolic models, knowledge representation, inferencing are the topics covered. Students develop these skills through semester projects based on a specific engineering application using an expert system shell of their choice.

CC1 3723, Geological Engineering 374, Engineering Geologic Field Methods. Removed from table. Approved new course for Summer 1993. 3 hours credit. Prerequisite: Geology 373. Description reads: Instruction in methods of field investigation required for engineering geological studies. Course will include procedures for interpretative mapping of surficial geologic conditions, site
characterization, and evaluation of geologic hazards. Written reports are required.

CC1 3734, Nuclear Engineering 000. Approved for Fall 1993. Change in curriculum. The titles of two required courses in the B.S. curriculum were changed last fall. NE 303 will be Reactor Physics I and NE 311 will be Reactor Physics II.

CC1 3735, Chemical Engineering 027, Chemical Engineering Calculations. Approved for Fall 1993. Change in prerequisites from Chem 3, Math 8, accompanied or preceded by ChE 20 "TO" Chem 3 or Chem 5, Math 8.

CC1 3736, Mechanical Engineering 459, Advanced Topics in Design and Manufacturing. Approved new course for Winter 1994. 3 hours credit. Prerequisite: ME 355. Description reads: Various topics in the area of design and manufacturing will be covered in this course: development of flexible manufacturing systems, CAD/CAM integration, rapid prototyping, etc.

CC1 3737, Metallurgical Engineering 455, Chemical Metallurgy. Approved for Fall 1993. Change in credit hours from 2 hours "TO" 3 hours. Change in description to: The theory and application of basic chemical principles to the extraction, refining, and general chemical behavior of metals and alloys. Independent study project will focus on process design options emphasizing environmental aspects of flowsheet development.

CC1 3738, Geological Engineering 000. Approved curriculum change for Summer 1993. There is no change in hours. The curriculum change involves separating the existing 6-hour Geologic Field Methods course into two components; the basic 3-hour course taught by the department of Geology and Geophysics and the sequential 3-hour course taught by the department of Geological Engineering.

CC1 3739, Chemical Engineering 335, Momentum, Heat and Mass Transfer. Approved for Fall 1993. Change in description to: The similarities of flow of momentum, heat and mass transfer and the applications of these underlying principles are stressed. Course is primarily for seniors and beginning graduate students.

CC1 3740, Chemical Engineering 387, Interfacial Phenomena in Chemical Engineering. Approved for Fall 1993. Change in prerequisites from ChE 335 "TO" ChE 237, Math 204.

CC1 3742, Chemistry, Intermediate quantitative Analysis. Approved for Fall 1993. Change in credit hours from 4 hours "TO" 3 hours. Change in prerequisites from Chem 151, 243 and preceded or accompanied by Chem 4 or an equivalent training program approved by UMR "TO" Chem 243. Change in description to: A study of the theory and practice of quantitative analysis. The topics covered include elemental analysis, electroanalytical, spectrophotometric and chromatographic methods.
CC1 3743, Chemistry 252, Intermediate Quantitative Analysis Lab. Approved new course for Fall 1993. 1 hour credit. Prerequisites: Chem 52, 243 and preceded or accompanied by Chem 4 or an equivalent training program approved by UMR.

CC1 3744, Ceramic Engineering 259, Ceramic Thermodynamics. Approved for Winter 1994. Change in description to: Thermodynamics as applied to high temperature reactions, stability of phases, thermodynamic equilibrium; statistical formulations; relationship to phase diagrams; gaseous environment control.

CC1 3745, Computer Science 377, Expert Systems in Manufacturing and Engineering. Approved for Fall 1993. Change in description to: Intelligent engineering system design using knowledge bases, knowledge based problem solving, symbolic models, knowledge representation, inferencing are the topics covered. Students develop these skills through semester projects based on a specific engineering application using an expert system shell of their choice.

CC1 3747, Computer Science 487, Advanced Parallel Computation. Approved for Fall 1993. Change in prerequisites from Csci 355 or CSci 387 "TO" CSci 387.

CC1 3748, Chemistry. Approved change in curriculum for Chemistry/Premedicine emphasis area for Fall 1993. Chem 4 was added to the first semester Freshman year. (Chem 4 is a prerequisite for Chem 2).

CC1 3749, Chemistry. Approved change in curriculum for Chemistry/Biochemistry emphasis area for Fall 1993. Chem 4 was added to the first semester Freshman year. (Chem 4 is a prerequisite for Chem 2).

CC1 3750, Chemistry. Approved change in curriculum for Chemistry/Polymer and Coatings Science emphasis area for Fall 1993. Chem 4 was added to the first semester Freshman year. (Chem 4 is a prerequisite for Chem 2).

CC1 3751, Chemistry. Approved change in curriculum for Chemistry/Bachelor of Science emphasis area for Fall 1993. Chem 4 was added to the first semester Freshman year. (Chem 4 is a prerequisite for Chem 2).

CC1 3752, Chemistry. Approved change in curriculum for Chemistry/Bachelor of Science for Fall 1993. For Junior year, first semester, delete Chem 240 and replace with Chem 241, because Chem 240 is no longer being offered.

CC1 3753, Chemistry. Approved change in curriculum for Chemistry/Biochemistry emphasis area for Fall 1993. For Junior year, first semester, delete Chem 240 and replace with Chem 241, because 240 is no longer being offered.
CC1 3754, Chemistry. Approved change in curriculum for Chemistry/Polymer and Coatings Science emphasis area for Fall 1993. For Junior year, first semester, delete Chem 240 and replace with Chem 241, because 240 is no longer being offered.

CC1 3755, Chemistry. Approved change in curriculum for Chemistry/Premedicine emphasis area for Fall 1993. For Junior year, first semester, delete Chem 240 and replace with Chem 241, because Chem 240 is no longer being offered.

CC1 3756, Civil Engineering 371, Traffic and Transportation Systems. Approved deletion for Fall 1993.

Selden Trimble, Chair
To: UMR Faculty

Academic Council Meeting
Thursday, June 17, 1993; 1:30 p.m.; G-5 H/SS

I. Approval of minutes of the April 29, 1993 meeting

II. Reports and Responses

A. President's Report (5 minutes) Randy Moss

B. Chancellor's Report (10 minutes) John Park

[10 Minutes for Questions & Answers]

C. IFC Report (5 minutes) Vince Roach

III. Reports of Standing and Special Committees

A. Admissions and Academic Standards (5 minutes) Dale Elifrits

1. Delayed (DEL) Grades & Special Topics Courses (10/29/92)
2. Manual of Information

B. Budgetary Affairs Committee (No Report) Al Crosbie

* 1. UMR Salaries (04/23/92)

C. Curricula (5 minutes) Selden Trimble

* 1. Report No. 8
2. General Education Requirements (02/25/93)

D. Personnel (5 minutes) Lance Haynes

1. Student Council Questionnaire (4/29/93)

E. RP&A (5 minutes) Ray Edwards

1. AD HOC Committee on English Requirements

IV. Old Business

V. New Business & Announcements

* Information distributed with agenda to Academic Council members and department chairs.

university of missouri-rolla