



University Senate

UNIVERSITY SENATE UM-St. Louis Agenda

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The Senate will meet at 3:15 p.m. on Tuesday, March 16, 1999 in 78 J.C. Penney.

- I. Approval of Minutes from Previous Meeting
- II. Report from the Senate Chair -- Jeanne Morgan Zarucchi
Referendum Results
- III. Report from the Chancellor -- Chancellor Touhill
- IV. Report from the Faculty Council Presiding Officer -- Dennis Judd
Recommendation of Reform for University Governance
Lack of Written Response on Backstop Resolution
- V. Report from the IFC Representative -- Paul Roth
- VI. Report from the SGA President -- Jim Avery
SGA New Constitution, Trip Report-Visit to Rolla and Columbia
- VII. Reports from Standing Committees:
 - A. Budget and Planning -- Chancellor Touhill
 - B. Committee on Committees -- Gail Ratcliff
Recommendation to Restructure the Executive Committee (See Attached)
 - C. Computing -- Susan Sanchez
Resolution-Laptop Computers
 - D. Curriculum and Instruction -- David Ganz
First Reading-To Abolish the EXC and Y Grades, and Create the Grade of W (See Attached)
First Reading-Last Day to Register for a Class (See Attached)
Course Proposals (Action Items-See Attached)
Proposed Academic Calendar (Action Item-See Attached)
 - E. Executive Committee -- Jeanne Morgan Zarucchi
 - F. Faculty Teaching and Service Awards -- Carol Kohfeld
Announcement of Deadline for the Emerson and Governor's Awards
 - G. University Libraries -- Harold Harris
Recruitment of New Librarian
Intellectual Property Rights Meeting on March 16
- VIII. Other Business

Recommendation from the Senate Committee on Committees

March, 1999

The Senate Committee on Committees met in December to discuss the inflated size of the Senate Executive Committee, which now consists of 25 members. The Committee on Committees unanimously recommended a reduction in the size of the Executive Committee. In assessing the need for chairs of standing committees to serve on the Executive Committee, we selected those committees which deal with **policy** issues. (Of course, chairs of other standing committees may be invited to attend Executive Committee meetings when policy matters related to their committees are discussed.)

We recommend that the Executive Committee consist of the following:

Senate Chairperson
Senate Secretary
Faculty Council Presiding Officer
SGA President

Chairs of the following standing committees:

Appointments, Tenure and Promotion
Budget and Planning
Bylaws and Rules
Computing
Curriculum and Instruction
International Relations
Physical Facilities
Recruitment, Admissions,...
Student Affairs
University Libraries
University Relations

DRAFT

Proposed Changes in the Grading System at UM - St. Louis For Individuals Who Leave Courses in Which They are Officially Enrolled

Recommendation: To abolish both the "EXC and "Y" grades, and create the grade of "W".

We believe that the procedures described below will promote uniformity in the way students are graded upon their official departure from courses, be a clearer way to process students' officially leaving a course, and be subject to less overall abuse.

The delayed ("DEL") grade would remain intact.

All time references are in the context of a regular semester.

During weeks 1, 2, 3 & 4 of a regular semester, an individual who *officially* leaves a course is defined as having "dropped" the course--no permissions are required and nothing appears on the student's permanent record card regarding the course which is dropped. A student may drop a course at the registration office, an academic advising office, using TRAIN (phone registration system) or STARUMSL (student computing labs). This is the existing policy which we support.

During weeks 5 through 12 of a regular semester, an individual who *officially* leaves a course is said to "withdraw." The individual's name is included on the official class roll and the name will appear on the grade sheet issued at the end of the semester. The date of withdrawal is noted on the grade sheet. Present policy results in a student being assigned either an "EXC" (excused) grade or a grade of "F." The "F" is calculated into the student's grade point average; the excused grade has no impact on one's grade point average. **We are recommending a change.** No permission would be required and a grade of "W" would automatically be assigned with the processing of the withdrawal. The "W" grade would have no effect on one's grade point average; both the course and the "W" grade would appear on the permanent record card. Faculty members would be notified immediately upon the student's withdrawal from the course.

Presently there are no withdrawals after the twelfth week except in extenuating circumstances as determined by the dean's office. In most academic units, the determination of whether the circumstances are or are not extenuating is delegated to the instructor of the course. If approval is granted, the grading is as described in the first part of the preceding paragraph. **We are recommending a change** which would automatically delegate the determination of whether or not there are extenuating circumstances to the course instructor. If the instructor approves of the late withdrawal, the "W" grade (described above) would be assigned with the assigning of grades at the end of the semester; if the instructor does not approve, a "regular" grade is assigned at the conclusion of the semester. Regular grades are: "A," "A-," "B+," "B," "B-," "C+," "C," "C-," "D+," "D," "D-" and "F."

Proposed Changes in the Grading System

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If a student neither *officially* drops nor withdraws from a course, but stops attending, the faculty member will need to determine whether or not there is basis for a grade. If there is basis for a grade, a regular grade is assigned at the end of the term. If there is no basis for a grade, the instructor currently assigns a grade of "Y". This grade changes to an "F" at the end of one year unless changed by the instructor to an "EXC" (grade change form) accompanied by an approved withdrawal from the course. **We are recommending a change.** We recommend that a regular grade be assigned if there is basis for a grade; if not, that the "Y" grade be eliminated and replaced with the assigning of a grade of "W". The "W" would be a *permanent* entry on one's permanent record card, and would have no impact on one's grade point average. It would *not* change to an "F". [Note: current policy results in the "Y" grade administratively changing to "F." There are times when the "Y" grade is *administratively assigned* even though a faculty member has no intent for a grade of "F" to be the desired outcome. For example if an instructor assigns no grade, the registrar has been instructed to assign a grade of "Y" which ultimately becomes a grade of "F." Also, if a faculty member assigns an "EXC" grade to a student who has not *officially* withdrawn from the course, the "EXC" is not able to be processed by the registrar's office and is changed to a "Y" by that office which effectively assigns the student a grade of "F."]

DRAFT

Proposed Policy Regarding Entering Classes Following the First Week of a Regular Semester

The Senate recommends that procedures be implemented whereby an Academic Unit (AU) may prohibit students from enrolling in specific courses following the end of the first week of a regular semester.

Suggested implementation procedures as discussed by C & I and the Office of the Registrar:

Present University of Missouri - St. Louis policy allows an undergraduate to enter a course through the end of the second week of a regular semester. No instructor permission is needed even though many faculty feel very strongly that individuals should not be allowed to enter a course for this extended period. To establish a policy which allows a student to enter a course beyond the end of the first week of a regular semester without the consent of the instructor places the burden on the student to get permission to enter the course during the second week even though some faculty may be willing to admit during the second week without specific permission being granted. As a compromise it is suggested that students do not have a "right" to enter courses after the end of the first week unless an academic unit allows such enrollments. To that end, the following implementation procedures are recommended:

When the schedule of courses is being composed, academic units will designate whether or not admission to specific courses during the second week of a regular semester is practical.

- a. If yes, the allotment for the course will reflect the maximum number of students admissible through the second full week of classes in a regular semester.*
- b. If no, the allotment for the course will reflect the maximum number of students admissible through the first full week of classes in a regular semester.*

Implementation: at the end of the first week of classes in a regular semester, the Office of the Registrar will adjust allotments for one week courses to five fewer than the number actually enrolled as of the end of the first week. This will result in showing the class to be five over enrolled. If persons drop the course during the second week, the class will still reflect as closed (unless more than five persons drop during week two). By virtue of the class being closed, individuals will not be able to enroll in these classes subsequent to week one without the written permission of the instructor.

This latter process allows individuals to register during the second week only for those specific sections where the academic unit has indicated in advance willingness to have students so-admitted.

Academic units can revise their lists any time a new schedule is being prepared. In the absence of a revised list, the registrar will use the last submitted list in noting which courses may not be entered following the first week of classes in a regular semester. The printed schedule of courses should note, following the prerequisites, which courses may not be entered subsequent to week one.

Proposed implementation date: Winter semester, 2000. (The Intersession, Summer and Fall Semester, 1999 schedules have already or are currently being set up in the Student Information System.)

REPORT FROM THE COMMITTEE ON CURRICULUM AND INSTRUCTION

March 16, 1999

I. The Committee recommends Senate approval for the following proposals:

A. New Degree Program

1. Master of Science in Computer Science

B. Change in Degree Requirements

1. Master of Social Work - Graduate
2. Graduate Studies in Mathematics

II. Housekeeping:

A. Change in Degree Requirements

1. Master of Education in Education Administration

III. The Committee wishes to inform the Senate of the following course actions that were effected by the Committee:

Curricular Designation/Number	Add/Drop/Change	Course Title	Credit Hours
Computer Science 413	Add	Advanced Data Structures and Algorithms	3
Computer Science 432	Add	Introduction to Evolutionary Computation	3
Computer Science 434	Add	Introduction to Machine Learning	3
Computer Science 436	Add	Expert Systems	3
Computer Science 438	Add	Introduction to Neural Networks	3
Computer Science 440	Add	Computer Vision	3
Computer Science 442	Add	Visual Data Processing	3
Computer Science 444	Add	Pattern Recognition	3
Computer Science 450	Add	Software Engineering	3
Computer Science 452	Add	Object Oriented Analysis and Design	3
Computer Science 454	Add	Software Systems Architectures	3
Computer Science 456	Add	Software Development Processes	3
Computer Science 461	Add	Advanced Databases	3
Computer Science 462	Add	Intelligent Information Retrieval	3
Computer Science 464	Add	Multimedia Information Systems	3
Computer Science 470	Add	Computer Systems	3
Computer Science 474	Add	Parallel and Distributed Computing	3
Computer Science 476	Add	Advanced Operating Systems and Network Management	3
Computer Science 487	Add	Computer Science Seminar	1-3
Computer Science 488	Add	Computer Science Independent Project	1-3
Computer Science 489	Add	Topics in Computer Science	1-3
Computer Science 490	Add	Thesis	1-6

REPORT FROM THE COMMITTEE ON CURRICULUM AND INSTRUCTION

March 16, 1999

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Curricular Designation/Number	Add/Drop/Change	Course Title	Credit Hours
Counselor Education 442	Change in title, prerequisite, description	Career Information and Development (formerly Career Information)	3
Counselor Education 443	Change in title, prerequisite, description	Advanced Career Development (formerly Career Development)	3
Counselor Education 444	Add	Career Assessment in Counseling and Rehabilitation	3
ED ADM 411	Add	Foundations of School Administration I	1
ED ADM 412	Add	Foundations of School Administration II	1
ED ADM 413	Add	Foundations of School Administration III	1
ED ADM 414	Drop	Foundations of School Administration	3
ED ADM 421	Add	Knowledge Contexts of Education Administration and Policy	3
ED ADM 422 (formerly 411)	Change in number, title, prerequisite, description	Social Contexts of Education (formerly Organizational Theory and Analysis in Education)	3
ED ADM 423 (formerly 416)	Change in number, title, prerequisite, description	Political Contexts of Education (formerly Policymaking in Education)	3
ED ADM 424 (formerly 465)	Change in number, title, prerequisite, description	Economic Contexts of Education (formerly State and Federal Financing of Public Education)	3
ED ADM 425 (formerly 460)	Change in number, title, prerequisite, description	Legal Contexts of Education (formerly School Law)	3
ED ADM 431 (formerly 435)	Change in number, prerequisite	Education Administration Policy Research	3
ED ADM 432 (formerly 441)	Change in number, prerequisite	Elementary School Administration	3
ED ADM 433	Add	Middle School Administration	3
ED ADM 434 (formerly 451)	Change in number, prerequisite	Secondary School Administration	3
ED ADM 435 (formerly 430)	Change in number, prerequisite	School District Administration	3
ED ADM 441 (formerly 471)	Change in number, prerequisite, description	School Staff Development and Supervision	3
ED ADM 442 (formerly 470)	Change in number, prerequisite	School Personnel Administration	3
ED ADM 443 (formerly 432)	Change in number, prerequisite	Problems in School Public Relations	3
ED ADM 444 (formerly 473)	Change in number, prerequisite	Collective Negotiations in Educational Organizations	3
ED ADM 445 (formerly 456)	Change in number, prerequisite	Extracurricular Activities	3
ED ADM 446 (formerly 422)	Change in number, prerequisite	Leadership in Educational Administration	3

REPORT FROM THE COMMITTEE ON CURRICULUM AND INSTRUCTION

March 16, 1999

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Curricular Designation/Number	Add/Drop/Change	Course Title	Credit Hours
ED ADM 451 (formerly 466)	Change in number, prerequisite	Principles of Public School Finance in Missouri	3
ED ADM 452 (formerly 475)	Change in number prerequisite, description	School Building and Sites	3
ED ADM 453 (formerly 425)	Change in number, prerequisite	Organizational Change in Education	3
ED ADM 461 (formerly 480)	Change in number, prerequisite	Administration of Adult and Community Education	3
ED ADM 462 (formerly 481)	Change in number, prerequisite	Programming in Community and Adult Education	3
ED ADM 463 (formerly 485)	Change in number, prerequisite	Financing of Community Education	3
ED ADM 473	Add	Curriculum in Higher Education	3
ED ADM 474	Add	The College Student	3
ED ADM 476	Add	Organization and Administration of Higher Education	3
ED ADM 477	Add	History and Philosophy of American Higher Education	3
ED ADM 481	Add	Education Administration Doctoral Seminar	1-6
ED ADM 482	Add	Education Policy Studies Seminar	1-6
ED REM 321 (formerly 310)	Change in number, prerequisite, description	Interpretation of Educational Tests and Measurements	3
ED REM 330	Change in prerequisite, description	Educational Statistics	3
ED REM 412	Change in title, prerequisite, description	Evaluation of Data Analysis Computer Programs (formerly Evaluation and Applications of Computers in Education)	3
ED REM 420	Change in prerequisite, description	Classroom Measurement and Evaluation	3
ED REM 421	Change in prerequisite, description	Educational and Psychological Measurement	3
ED REM 422	Change in prerequisite, description	Individual Assessment of Cognitive Abilities	3
ED REM 431	Change in title, prerequisite, description	Educational Research Methods and Design (formerly Educational Research Methods I)	3
ED REM 432	Add	Survey Research Methods in Education	3
ED REM 441	Add	Action Research in Education	3
ED REM 442 (formerly 436)	Change in number	Nonparametric Statistics in Education	3
ED REM 451	Add	Educational Program Evaluation	3
ED REM 460 (formerly 429)	Change in number prerequisite, description	Advanced Test Theory in Education	3
ED REM 471 (formerly 432)	Change in number, title, prerequisite, description	Quantitative Research Methods I (formerly Educational Research Methods II)	3

REPORT FROM THE COMMITTEE ON CURRICULUM AND INSTRUCTION

March 16, 1999

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Curricular Designation/Number	Add/Drop/Change	Course Title	Credit Hours
ED REM 472 (formerly 433)	Change in number, title, prerequisite, description	Quantitative Research Methods II (formerly Educational Research Methods III)	3
ED REM 473 (formerly 435)	Change in number, title, prerequisite, description	Quantitative Research Methods III (formerly Multiple Linear Regression in Education)	3
ED REM 481	Add	Qualitative Methods in Educational Research I	3
ED REM 482 (formerly 437)	Change in number, title, prerequisite, description	Qualitative Methods in Educational Research II (formerly field Based Research Methods)	3
English 317	Change in title, hours, description	Topics in the Teaching of Writing (formerly Writing Project Workshop)	1-3
English 319	Change in prerequisite	Editing	3
English 457	Add	Graduate Workshop in Nonfiction	3
Gerontology 300a	Add	Mechanisms of Aging I: The Aging Body	1
Gerontology 300b	Add	Mechanisms of Aging II: The Aging Brain	1
Gerontology 300c	Add	Mechanisms of Aging III: Diseases of Aging	1
Gerontology 390	Add	Directed Readings	1-3
Mathematics 406	Add	Computational Harmonic Analysis	3
Mathematics 407	Add	Time-Frequency Analysis	3
Mathematics 408	Add	Advances in Wavelet Analysis	3
Phys Ed 331	Add	Adult Exercise Leadership	3
Political Science 209	Add	American Government for the Secondary Classroom	3
Political Science 406	Add	Survey Research Methods	3
PPA 365	Change in prerequisite	Introduction to Econometrics	3
Secondary Education 209	Add	American Government for the Secondary Classroom	3
Sociology 432	Add	Survey Research Methods	3
SPC ED 405	Add	Introduction to Braille	4
SPC ED 431	Change in title, description	Education of Learners with Developmental Disabilities (Education of Individuals with Mental Retardation)	3
SPC ED 462	Change in prerequisite, description	Introduction to Early Childhood Special Education	3
SPC ED 481	Add	Introduction to Orientation and Mobility	3
SPC ED 483	Add	Instructional Strategies and Technology for Students with Visual Impairment	4
SPC ED 490	Change in prerequisite, description	Internship	1-10
SPC ED 493	Add	Practicum with Students with Visual Impairment	6

SENATE PROPOSAL FORM FOR (check one): (x) NEW DEGREE PROGRAM
() NEW MINOR
() NEW CERTIFICATE PROGRAM

WJG

(Do Not Write in This Space)
initials/date

ROUTING:

Academic Affairs	<i>WMM</i> 12/2/99
Graduate School	<i>DW</i> 12/19/99
(if applicable)	
Senate C&I	____/____
Senate	____/____
Academic Affairs	____/____
(effective date:)

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Mathematics and Computer Science
Department

Signed: *Rae Ball*
Department Chair

1/4/99
Date

College of Arts and Sciences
School or College

Signed: *Martin Sage*
Dean

1/25/99
Date

Master of Science in Computer Science
Title of Degree/Minor/Certificate Program

Are other departments likely to be affected by this proposal? () no (x) yes — list departments and secure sign-offs

Management Science and Information Systems

James Caldwell

Rationale for proposed new degree/minor/certificate:

Adds the curriculum for the Master of Science in Computer Science

Program description for Bulletin:

Degree Requirements

Master of Science in Computer Science

Candidates for the M.S. degree in Computer Science must complete 30 hours of coursework, subject to the Graduate School regulations. All courses numbered below 400 must be completed with grades of at least "B". Outside of Computer Science, up to 6 hours of related coursework is allowed upon permission of the Graduate Director.

Students must pass the following core requirements. Waiving or substituting for a specific requirement can be done on the basis of prior coursework or experience (at the discretion of the Graduate Director), but it will not reduce the total hours required for the degree.

1. Operating Systems (CS 376 or CS 476)
2. Programming Languages (CS 325)
3. Computer Systems (CS 470)
4. Software Development (one of CS 450, CS 452, CS 454, or CS 456)
5. Advanced Data Structures and Algorithms (CS 413)



To: Sue English
From: Ray Balbes *RB*
Date: March 8, 1999
Subject: Justification for an MS in Computer Science

The explosive growth in the use of computers has made the study of computing today's most rapidly developing scientific/technological discipline. It is therefore essential that universities produce computer scientists who will be capable of meeting present needs, and who will be able to play leading roles in the future. This is particularly important in St. Louis, a city in which there are a number of large companies who have very substantial interests in the future of computing. While names such as Boeing, Monsanto, Emerson Electric and Southwestern Bell come immediately to mind when one thinks of high technology, they are only the most well known of such companies. The St. Louis Regional Commerce and Growth Association has identified 242 organizations with 50 or more employees that have a continuing need for highly trained computer science personnel. Many of these companies (including a leading credit card company and a major phone company) are so desperate for highly qualified computer scientists that they are offering their own employees bonuses if they recommend candidates who are hired and stay 6 months. It is crucial that the University of Missouri-St. Louis be able to provide such people. Smaller companies are increasing their demand for computer scientists as well.

Presently this campus offers the degree of Bachelor of Science in Computer Science. The program has proved to be very popular with students and, perhaps more importantly, with potential employers of these students. At a number of companies one now finds departments where the majority of workers are graduates of our program. Employees of the various corporations in the area have come to depend on our courses as a way of updating and upgrading their skills. Unfortunately the Bachelor's degree program is, by its very nature, limited in terms of the advanced courses it can provide and it is often precisely these sorts of offerings that are most in demand. There is no better way to serve the citizens of Missouri than to supply the highly trained workforce, that *is already needed*, to meet the increasing demands of a world economy.

The job market for highly trained computer scientists is very strong. Greg McDonnell, a senior consultant at a prestigious recruiting firm says "The market is absolutely on fire ... there are actually three markets right now: the mainframe, the midrange and the PC/Unix server. "The market for highly qualified individuals is also changing so that traditional programming is just one aspect of a broad spectrum of necessary skills which includes networking, operating systems, object oriented programming, graphical interface design, robotics, and Internet applications. In Missouri, according to an article in a national computer magazine article "There's a ton of permanent positions compared to two or three years ago.

The 1998-99 *Occupational Outlook Handbook* predicts that computer scientists, computer engineers and systems analysts will be among the occupations with the highest percentage increases in new jobs from now till at least the year 2006. But, they also call for people able to assume the responsibilities of leadership in this rapidly changing area. For, needless to say, if high quality leaders are not produced then the potential of these remarkable developments will not be fully realized.

Justification for an MS in Computer Science

It is a major goal of the proposed program to provide an environment where the qualities of leadership might develop. By offering the opportunity to study a particular area within computer science in depth, and then, to complete a significant project under expert guidance, the proposed program should put its students in a position to assume important roles in their profession.

SENATE PROPOSAL FORM FOR (CHECK ONE): (X) CHANGE IN DEGREE REQUIREMENTS
 () CHANGE IN MINOR
 () CHANGE IN CERTIFICATE PROGRAM

(DO NOT WRITE IN THIS SPACE)
 Initials/Date

MSW

ROUTING:

Academic Affairs Lmm / 11/24/98
 Graduate School DW^{msl} / 12/19/99
 (if applicable)
 Senate C&I _____
 Senate _____
 Academic Affairs _____

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Social Work Masters Program
 Department

Signed: *Jean Hashemi*
 Department Chair Date

College of Arts & Sciences
 School or College

Signed: *Martin Angel* 11-10-98
 Dean Date

Master of Social Work - Graduate

Title of Degree/Minor/Certificate Program

Are other departments likely to be affected by this change? () no (X) yes -- list departments and sign-offs

Page number(s) 264 and year 98-99 of most recent Bulletin listing

Current Bulletin listing:

Proposed Bulletin listing:

Rationale:

Graduate Studies
Master of Social Work

Admission Requirements

Admission to the M.S.W Program requires admission to the University of Missouri-St. Louis Graduate School and acceptance by the Department of Social Work. Applicants to the program must meet the following requirements to be considered for admission: (1) completion of a bachelor's degree from a college or university accredited by a recognized regional accrediting organization;

Addition: Proposed changes reflect Addition of MSW program, MSW level Courses, and departmental updates.

Addition

Current Bulletin Listing:	Proposed Bulletin Listing:	Rationale:
	<p>(2) completion of a liberal arts education including courses in the humanities, the social and behavioral sciences, and the physical sciences, including a course in human biology or one that had substantial human biology content; (3) attainment of a cumulative grade point average of at least 2.75 on a 4.0 scale for all undergraduate course work and attainment of a grade point average of 2.75 on a 4.0 scale in the major field; (4) submission of scores from the Graduate Record Exam (i.e., verbal, quantitative and analytical sections of the General Test); and (5) submission of the following documents by the admission deadline: (a) a completed application to the UM-St. Louis Graduate School and a completed M.S.W. supplemental application, (b) three letters of reference, (c) a written personal statement,</p> <p>(d) official transcripts from all colleges and universities attended, (e) official GRE scores, taken no more than five years prior to application to the program, and (f) applicable fees.</p> <p>Application Deadline The deadline for application to the MSW program is March 15 for admission in the following Fall semester.</p>	<p><i>Addition: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates.</i></p> <p><i>Addition: Similar deadline as other social work programs in the area and the UM social work programs.</i></p>

Admissions to the Advanced Standing Program

Applicants with BSW, BASW, or BSSW, from an accredited social work program may be given up to 21 credit hours of advanced standing for foundation social work courses.

Admissions to the advanced standing program is available to applicants who meet the general admission requirements and who: (1) have earned a bachelor's degree in social work accredited by the Council on Social Work Education within five years of applying to the MSW Program; and (2) have earned a grade point average of at least 3.0 on a 4.0 scale in the social work foundation curriculum, and no less than a B on all courses that are applicable.

Course Waivers

A student who does not have a Bachelor's degree in social work but who can document successful completion (with at least a B) of foundation courses from an accredited B.S.W. program within the last five years will be given course waivers and be allowed to take electives instead of these courses.

Students from non-accredited B.S.W. programs or students who have taken comparable course work in other undergraduate programs may take place-out examinations for select foundation courses; waivers will be given if students successfully pass place-out examinations. The waiver does not provide graduate credit; it is a mechanism for allowing elective courses to be substituted for required foundation courses.

Addition: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates. Advanced standing is standard practice in MSW programs.

Addition: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates.

Addition: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates.

Academic credit cannot be given for life experience and previous work experience, in whole or in part, in lieu of field practicum or foundation year courses.

Degree Requirements

The M.S.W. is a two-year program comprising a foundation year and a concentration year. All students are required to take the foundation year courses that provide a common base of knowledge across all practice settings and populations. Beyond the general requirements of the Graduate School, the department requires a minimum of 60 semester hours of course work, of which 45 must be at the 400 level and 45 must be in social work or cross-listed with social work, including the following foundation courses:

- 315 Diversity and Social Justice
- 410 Social Policy and Social Services
- 418 Foundations of Human Behavior in the Social Environment
- 430 Generalist Social Work Practice
- 431 Social Work and Human Service Organizations
- 432 Community Practice and Social Change
- 440 Research Methods and Analysis I
- 449 Research Methods and Analysis II
- 489 Graduate Field Practicum Seminar
- 490 Graduate Field Practicum I

Upon completion of the 30 credits of foundation year requirements, students move into a year of specialization, called the concentration. The concentration year requires 30 hours of course work that includes nine hours of elective graduate-level

Addition: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates.

Addition: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates.

The CSWE accreditation standards for master's program in social work mandate a number of specific curriculum content areas. In view of this, a minimum of 45 credit hours in social work will be needed to minimally meet this mandate. A student's remaining 15 credit hours may be (upon approval of the social work faculty) taken in non-social work curricular areas.

Addition: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates.

Addition: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates.

Current Bulletin Listing:	Proposed Bulletin Listing:	Rationale:
<p>Graduate Certificate in Gerontological Social Work</p> <p>The Graduate Certificate in Gerontological Social Work is a program designed for students who wish to pursue advanced study in social work practice with the elderly. While the program draws from several disciplines, the focus is on practice and/or administration in gerontological settings. The program can be taken by itself or in conjunction with the pursuit of a graduate degree in another field.</p>	<p>courses approved by the advisor. Students plan their degree program to reflect their career interests in the following concentration areas:</p> <ul style="list-style-type: none"> Children, Youth, and Families Aging and Gerontology Organizations and Communities <p>To remain in good standing students must maintain a cumulative GPA of 3.0 or better.</p> <p>The field practicum is an integral part of the concentration year. Students will complete 240 hours (2 days of full time work each week) of M.S.W.-supervised practice in an agency during the Winter semester of the foundation year, and 660 hours (3 days of full time work per week) in both the Fall and Winter semesters in the concentration year.</p> <p>A student must receive a grade of satisfactory on a satisfactory/unsatisfactory basis in the first-year field instruction course in order to be eligible to enter the second year field practicum.</p> <p>Part Time Status</p> <p>Students who enter the program as part-time students complete the foundation year in two years and the concentration course work in an additional two years.</p> <p>All students must complete the M.S.W. in four years.</p>	<p><i>Addition: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates.</i></p> <p><i>Addition: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates.</i></p> <p><i>Addition: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates. Time limits are set by CSWE.</i></p> <p><i>Delete. Graduate concentration in this area will take the place of this offering.</i></p>

Current Bulletin Listing:	Proposed Bulletin Listing:	Rationale:
<p>Admission Requirements Program applicants must have the following: 1) baccalaureate degree; 2) a 2.75 grade point average (students with exceptions should contact the director of the Gerontology program); 3) official transcripts of all previous undergraduate/graduate work; 4) three letters of recommendation</p> <p>Certificate Requirements Eighteen credit hours are required to complete the certificate. Students must complete 15 hours of required core courses and three hours of gerontology electives at the 300 level or above.</p> <p>Required Core Courses Social Work 316, Clinical Gerontology Psych 373, Psychology of Aging, or Sociology 361, Social Gerontology PolSci 444 (or Public Policy Administration 444), Public Policy and Aging Social Work 330, Research Design in Social Work 491, Professional Leadership Practice</p> <p>Career Outlook The bachelor of social work program is designed to prepare persons for employment in social welfare agencies, schools, hospitals,</p>	<p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p>Career Outlook for Social Work The bachelor of social work program prepares persons for entry level employment in social welfare agencies, schools, hospitals,</p>	<p><i>Delete</i></p> <p></p> <p></p> <p><i>Delete</i></p> <p></p> <p><i>Delete</i></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p><i>Change: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates.</i></p>

Current Bulletin Listing:	Proposed Bulletin Listing:	Rationale:
<p>correctional institutions, or day care, geriatric, or rehabilitation centers. Individuals currently working in social welfare settings can improve their skills or increase their opportunities for job advancement.</p>	<p>correctional institutions, social action and community organizations, and day care, geriatric or rehabilitation and residential centers. The master of social work program prepares professionals for advanced social work practice with individuals, families, groups, organizations and communities. Individuals currently working in social welfare settings or those interested in social welfare can develop skills and increase employment and job advancement opportunities with the B.S.W. and M.S.W. degrees.</p>	<p><i>Change: Proposed changes reflect addition of MSW program, MSW level courses, and departmental updates. These are the standard areas of social work practice at the BSW & MSW levels.</i></p>

SENATE PROPOSAL FORM FOR (check one): (X) CHANGE IN DEGREE REQUIREMENT
() CHANGE IN MINOR
() CHANGE IN CERTIFICATE PROGRAM

MS

(Do Not Write in This Space)
initials/date

ROUTING:

Academic Affairs	<u>Umm</u>	<u>2/2/99</u>
Graduate School	<u>DW</u>	<u>2/19/99</u>
(if applicable)		
Senate C&I	<u>/</u>	
Senate	<u>/</u>	
Academic Affairs	<u>/</u>	

Page 1 of 4

Mathematics and Computer Science
Department

Signed *Ben Badler* 1/4/99
Department Chair Date

Arts and Sciences
School or College

Signed *Martin Hays* 1/25/99
Dean Date

Graduate Studies in Mathematics
Title of Degree/Minor/Certificate Program

Are other departments likely to be affected by this change? () no (X) yes--list departments and secure sign-offs
Management Science and Information Systems

James Calbell

Page number(s) 197 and year 1998-99 of the most recent Bulletin listing.

Current Bulletin listing:

Proposed Bulletin listing:

Rationale

Graduate Studies

The Department of Mathematics and Computer Science offers an M.A. degree in Mathematics and a Ph.D. degree in Applied Mathematics. Candidates for the M.A. degree may choose to concentrate in either **pure** or **applied** mathematics. Individuals may apply for direct admission to either the M.A. or Ph.D. program.

Graduate Studies

The Department of Mathematics and Computer Science offers an M.A. degree in Mathematics, a Ph.D. degree in Applied Mathematics and an M.S. degree in Computer Science. Candidates for the M.A. degree may choose to concentrate in either **pure** or **applied** mathematics. Individuals may apply for direct admission to

Adds the new M.S. in Computer Science to the catalogue.

In addition, a student in the M.A. program may petition the department for transfer to the Ph.D. program upon successful completion of 15 credit hours.

ADMISSION

Applicants should have at least a bachelor's degree in Mathematics or in a field with significant mathematical content. Examples of such fields include computer science, economics, engineering and physics. In addition to meeting the general admission requirements of the Graduate School, described elsewhere in this *Bulletin*, an applicant's record should demonstrate superior achievement in undergraduate mathematics. Additionally, students intending to enter the Ph.D. program must have a working ability in modern programming technologies. A student with a deficiency in this area may be required to take courses at the undergraduate level in computer science.

Applicants to the M.A. program must submit their academic transcripts. Foreign applicants whose native language is not English and have spent less than two of the last three years in an English speaking country are required to submit TOEFL scores. Applicants to the Ph.D. program must, in addition, submit three letters of reference and scores from the Graduate Record Exam (GRE) general aptitude test and the subject test in mathematics. Applicants who did not major in mathematics may substitute the subject test in another field.

either the M.A. or Ph.D. program. In addition, a student in the M.A. program may petition the department for transfer to the Ph.D. program upon successful completion of 15 credit hours.

ADMISSION

Applicants must meet the general admission requirements of the Graduate School, described elsewhere in this *Bulletin*. Students are considered for admission to graduate programs in Mathematics and Computer Science only after they have formally applied for admission through the Graduate School. Applications may be completed on-line or submitted by traditional means. Additional admission requirements for specific programs are listed below.

Mathematics Programs

Applicants must have at least a bachelor's degree in mathematics or in a field with significant mathematical content. Examples of such fields include computer science, economics, engineering and physics. An applicant's record should demonstrate superior achievement in undergraduate mathematics.

In addition, students intending to enter the Ph.D. program must have a working ability in modern programming technologies. A student with a deficiency in this area may be required to take courses at the undergraduate level in computer science.

Applicants for the Ph.D. program must, in addition, submit three letters of reference and

scores from the Graduate Record Examination (GRE) general aptitude test and the subject test in mathematics. Applicants for the Ph.D. who did not major in mathematics may substitute the subject test in another field.

Computer Science Programs

Applicants must have at least a bachelor's degree, preferably in computer science or in a related area. Students with bachelors' degrees outside of computer science must demonstrate significant proficiency in computer science. This can be shown by a GRE subject test score in Computer Science of at least the 60th percentile or explicitly by showing competence in four computing areas as listed below. Any of the area requirements can be satisfied by suitable experience (at the discretion of the Graduate Director) or by passing computer science courses equivalent to the following U.M.-St. Louis courses, with a grade of C or better:

1. Two semesters of programming courses, and knowledge of a modern C-based language (e.g., C, C++, or Java). (C.S. 125 and C.S. 225, or C.S. 273, or C.S. 275).
2. A course in data structures (C.S. 225).
3. A course in assembly language programming, computer architecture, or computer organization. (C.S. 240 or C.S. 241).
4. An elementary course in algorithms and analysis. (C.S. 278).

Adds the new M.S. in Computer Science to the catalogue.

Students must also have completed mathematics courses equivalent to the following U.M.-St. Louis courses, with a grade of C or better:

1. Two semesters of calculus (Math 80 and Math 175).
2. A course in linear algebra (Math 245).
3. A course in discrete mathematics (CS/Math 211).
4. An elementary course in probability or statistics (Stat 31 or Stat 132).

Students not meeting the above requirements must pass appropriate courses (as indicated).

PROPOSED

UNIVERSITY OF MISSOURI-ST. LOUIS

ACADEMIC CALENDAR FOR 2000-2001

2000

August 21
September 2
September 5
November 21
November 27
December 6
December 7, 8
December 11
December 19

FIRST SEMESTER

Monday, classes begin 8 a.m.
Saturday, Labor Day holiday begins 3 p.m.
Tuesday, classes resume 8 a.m.
Tuesday, Thanksgiving holiday begins 11 p.m.
Monday, classes resume 8 a.m.
Wednesday, classes end 11 p.m.
Thursday/Friday, Intensive study days*
Monday, final examinations begin
Tuesday, first semester closes end of day

M 15
T 16
W 15
TH 14
F 14
74

2001

January 14

Sunday, mid-year commencement

SECOND SEMESTER

January 15
January 16
March 24
April 2
May 7
May 8, 9
May 10
May 17
May 19

Monday, Dr. Martin Luther King holiday
Tuesday, classes begin 8 a.m.
Saturday, spring recess begins 3 p.m.
Monday, classes resume 8 a.m.
Monday, classes end 11 p.m.
Tuesday/Wednesday, intensive study days*
Thursday, final examinations begin
Thursday, second semester closes end of day
Saturday, annual commencement

M 15
T 15
W 15
TH 15
F 15
75

*Intensive study days -- no classes held, no exams scheduled

SUMMER SESSION

May Intersession (4 weeks)

May 21
May 28
June 15

Monday, classes begin 8 a.m.
Monday, Memorial Day holiday
Friday, session closes end of day

Eight-Week Session

June 18
July 4
August 8, 9
August 9
August 12

Monday, classes begin 8 a.m.
Wednesday, Independence Day Holiday
Wednesday/Thursday, final examinations
Thursday, session closes end of day
Sunday, summer commencement