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Faculty Senate Chronicle March 18, 1984

Heather M. Loughney

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1984-85, No. 6 (58 pages)

March 18, 1985

FACULTY TO BE ON PROFESSIONAL LEAVE 1985-86

For the 1985-86 Academic Year

Dr. Chaman Kashkari, Associate Professor of Electrical Engineering
Dr. Judith Palagallo, Associate Professor of Mathematical Sciences
Dr. George S. Pope, Assistant Professor of Music

For the Fall Semester 1985

Mr. Frank Bradshaw, Professor of Music
Dr. James Buchanan, Associate Professor of Philosophy
Dr. Lindgren Chyi, Associate Professor of Geology
Dr. William Fleming, Professor in the Community & Technical College
Mr. Thomas Herbert, Professor of Electronic Technology
Mr. David Jamison, Associate Professor of Communication
Mr. Robert Pope, Associate Professor of English

For the Spring Semester 1986

Mrs. Jacqueline Hegbar, Assistant Professor of Classics
Dr. Hugo Lijeron, Professor of Modern Languages
Dr. Eugene Maio, Professor of Modern Languages
Mrs. Sue Politella, Associate Professor of History
Dr. Fred Schultz, Professor of Education

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UNIVERSITY DATES

- March 27 Theatre Series presents "The Mikado", Thomas Hall, 8:15 p.m.
- March 29 Thomas Hall presents Marcel Marceau, Thomas Hall, 8:15 p.m.
- April 2 Cabaret Series presents The Mantovani Orchestra, Thomas Hall
8:15 p.m.
- April 4 Regular meeting of University Council, Warren W. Leigh Hall,
3 p.m.
- Theatre Series presents "Gigi" starring Louis Jourdan,
Thomas Hall, 8:15 p.m.
- April 9 Gold Series presents The University of Akron Chamber Orchestra
with Paul Biss conducting and Miriam Fried, violin, Thomas Hall,
8:15 p.m.
- April 13 Dance Series presents "Swan Lake" by the Pittsburgh Ballet,
Thomas Hall, 8:15 p.m.
- April 14 World-At-Our-Door travelog presents "Come to the Castle"
narrated by Howdee Meyers and Lucia Perrigo, Thomas Hall,
2:30 p.m.
- April 16 The Tuesday Musical Club presents Paul Neubauer, violist,
Thomas Hall, 8:15 p.m.
- April 20 The Akron Symphony Orchestra with composer/conductor Jacob
Druckman, Thomas Hall, 8:15 p.m.
- April 27 Gold Series presents Nicolas Constantinidis, Thomas Hall,
8:15 p.m.

THE UNIVERSITY OF AKRON CHRONICLE—Policy and Contents

In following its policy of publishing official reports of the University faculty, University Council, and the Administration each month during the academic year, the Chronicle will also provide formal notices of general faculty meetings, legislative action and other data of particular import for the faculty and staff. Any comment concerning the contents of the Chronicle may be directed to the office of the Acting Senior Vice President and Provost.

MINUTES OF MEETING OF UNIVERSITY COUNCIL, March 7, 1985

The regular meeting of the University Council was called to order by the Chairman, Acting Senior Vice President and Provost, Dr. John S. Watt, at 3 p.m. on Thursday, March 7, 1985, in Leigh Hall 307.

Fifty-five of the 75 members of Council (including three ex officio for 1984-85) were present. Those absent with notice were: Dr. Barbara Armstrong; Mr. Donald Bowles; Dean Lillian DeYoung; Dean Claibourne E. Griffin; Dr. Faith Helmick, Dean Louis Hill; Dean Donald Jenkins; Dean Gerard Knieter; President William Muse; Dr. Charles Poston; Dr. William A. Rogers; Dr. Frederick Sturm and Dean Tyrone Turning. Absent were: Mrs. Julia Hudson; Mr. Rob Kochis; Dr. Warner Mendenhall; Mr. Walter P. Morton; Mr. John F. Myers; Mr. Frank Pignatelli and Miss Barbara Sculley. Visitor present: Mrs. Linda Weiner.

The Chairman called for consideration of the minutes of the February 7, 1985 meeting of University Council as printed in The University of Akron Chronicle of February 18, 1985. Dr. Gerlach mentioned an item which he said was not germane to the minutes, but concerned a reference in the Chronicle to Founders Day. According to the University Historian, Dr. and Mrs. Parke R. Kolbe, who have traditionally been considered a part of the founders group, were not mentioned. He also noted that Mrs. Buchtel's name was Elizabeth, not Mary.

Dr. Farona referred to the "Remarks of the President" on Page 4 and recalled that the President said he "would have liked to have given a healthy increase to faculty, but that it could not be managed in light of the present budget", whereas the minutes reflected that a "healthy increase would be given".

The Secretary confirmed Dr. Farona's statement and with the Chairman's assurance that the statements in the Chronicle would be corrected, the minutes were approved as distributed.

Dr. Watt reported that Dr. Muse was one of two Presidents to testify last night at the House Appropriations Committee with regard to the higher education budget for this year.

Moving to the next agenda item, "Special Announcements", the Chairman recognized Dr. Gerlach who asked if it might be appropriate at this time to submit an item for transmission to the President. He said that here again he was prompted by colleagues to ask the following question regarding a piece printed on Page 2 of the Chronicle: Why is there no faculty member on the Search Committee for the Associate Provost for Student Services?

Dr. Watt answered that the associate and assistant deans appointed to the committee are the administrators with whom the faculty work closely through the Student Services operation, hence it was decided that faculty were adequately represented.

Proceeding with the reports of the standing committees, Dr. Griffin said the Procedural Committee met on February 21, 1985. Prior to that meeting telephone approval had been given to the appointment of Mr. David H. Adams, the new Athletic Director, to the Athletics Committee. At the meeting on February 21, Mr. Roger Ryan, Director of Facilities Planning and Construction, was appointed to the Campus Facilities Planning Committee, with Mr. Donald Bowles continuing to serve in an ex officio capacity. The agenda was set for today's meeting of Council. Mrs. Linda Weiner, a part-time faculty member in English, was given permission to speak to Council on March 7, 1985.

Speaking for the Academic Policies, Curriculum and Calendar Committee, Mr. Baldwin referred to eighteen curriculum changes which have been circulated to Council. (All curriculum changes are included in the Appendix to these Minutes.) He qualified the changes by stating that all objections have been considered and corrected before presentation to Council for approval.

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 3/7/85, continued

From the Buchtel College of Arts and Sciences, the Department of Polymer Science, AS-85-03, is a proposal which provides for the addition of ten courses totaling 20 credits. This change has the approval of Graduate Council and the Department of Chemistry. Mr. Baldwin moved approval. The motion was seconded and carried.

Mr. Baldwin then presented AS-85-04 from the Department of Geography, a change in degree requirements for the Bachelor of Science in Geography/Cartography. This is a slightly modified program incorporating a track for Drafting Technology students. The only change is altering the first statement as follows: (the alteration is underlined) "Completion in the Community and Technical College of the Associate Degree in Survey or the Associate Degree in Drafting Technology." He moved approval. The motion was seconded and carried.

Next, he presented proposal AS-85-06 from the Department of Political Science, which is a change in graduate requirements. He moved approval. The motion was seconded and carried.

From the Department of Geology, AS-85-07 was presented, representing basically changes in the Master of Science Degree requirements by the elimination of some general areas of courses. With Graduate Council's approval, he submitted the proposal and moved approval. The motion was seconded and carried.

A proposal from the Department of Mathematical Sciences, AS-85-13, changing the Computer Science Certificate and the Computer Science Minor program was presented with a motion for approval. The motion was seconded and carried.

From the same department, specifically Statistics, Mr. Baldwin presented AS-85-14, a change in requirements for the Master of Science Degree in Statistics, giving greater flexibility in course selection and programming, including title changes and changes in numbers and prerequisites. He moved approval. The motion was seconded and carried.

Proposal AS-85-20 from the Department of Sociology was presented. This proposal represents the addition of two courses to the Master of Arts Thesis Option and the addition of one course to the Master of Arts, Non-Thesis Option I core. Mr. Baldwin moved approval. The motion was seconded and carried.

From the Department of Physics, proposal AS-85-23 representing changes in the undergraduate requirements for the B.S. Degree in Physics, increasing the requirements from 25 to 27 credits, was presented with a motion for approval. The motion was seconded and carried.

Mr. Baldwin next presented AS-85-24, also from the Department of Physics. This proposal recommends changes in the graduate requirements for the Master of Science Degree in Physics and the renumbering of several courses to place them in the order in which they should be taken. He moved approval. The motion was seconded and carried.

In answer to an inquiry from Dr. Lehrman, Mr. Baldwin replied that this completes the presentations from the Buchtel College of Arts and Sciences.

Continuing, Mr. Baldwin presented EN-85-03 from the College of Engineering, the Department of Electrical Engineering, which is a proposal providing for a number of changes including dropping two courses for a total of 8 credits and changing titles and numbers. The proposal also adds a new course and replaces an Engineering computer science course with an Arts and Sciences computer science course. He moved approval. The motion was seconded and carried.

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 3/7/85, continued

Two proposals were next presented from the College of Engineering, EN-85-04 from the Department of Polymer Engineering and EN-85-07 from the Department of Biomedical Engineering. Both of these proposals refer to specializations in their areas and change program requirements from 30 to 33 credits, with the intent of providing greater breadth over other existing engineering curricula. Mr. Baldwin moved approval. The motion was seconded and carried.

Also from the College of Engineering, EN-85-08 from the Department of Electrical Engineering was presented. This proposal deletes two courses and adds five new ones for a net gain of 6 credits. Mr. Baldwin moved approval. The motion was seconded and carried.

Continuing with the curriculum changes, Mr. Baldwin presented BA-85-12, a proposal from the Department of Accounting in the College of Business Administration. This proposal increases by one credit the degree requirements in the Department of Accounting, actually changing the range from 33-35 to 34-36. It also deletes two courses from the list of requirements. He moved approval. The motion was seconded and carried.

Also from the College of Business Administration, Mr. Baldwin presented BA-85-13 from the Department of Finance. This proposal increases the number of hours for a Finance major from 21 to 24 and specifies that a minimum grade of "C" must be maintained. Additionally, it provides for control of the number of nondepartmental accounting courses to be counted toward the 24-hour major, changes other course titles and adds four new courses for a total of 12 credits. He moved approval. The motion was seconded and carried.

The next two proposals from the College of Nursing were presented for consideration. The first, NU-83-02, specifies a ten-year statute of limitation for microbiology. Mr. Baldwin moved approval. The motion was seconded and carried.

The last proposal, NU-85-04, recommends changing the grade point average which must be maintained for remaining in the College of Nursing from 2.5 to 2.3 and specifies that students receiving a grade of "D+" to "F" in any nursing course will be required to repeat that course or dismissal will occur. Mr. Baldwin moved approval. The motion was seconded and carried.

From the Calendar Subcommittee of the Academic Policies, Curriculum and Calendar Committee, Mr. Baldwin presented the potential calendar for the 1985-86 academic year and explained briefly the changes---it is a virtual replica except for some date changes for this current year; for the summer, however, it moves the Summer Session, a 10-week format, back one week, so that Summer Session starts a week later. The change is to permit a four-week period of time from the end of spring to the beginning of summer and a one-week period of time at the end of summer until fall. With that explanation, he moved approval of the calendar. The motion was seconded.

Responding to the Chair's call for discussion, Dr. Farona asked for an explanation of the reason for moving Summer Session back one week. He said that since some faculty need to be on campus one week before the start of the fall semester for graduate student orientation and other similar functions, there would be no break between the end of summer and the beginning of the fall semester.

With the Chair's approval, Mr. Baldwin asked Dean Carrino to present the rationale for the change.

Dr. Carrino said the obvious reason is the fact that next year the public schools terminate after our Summer Session begins. The possibility that the State might mandate an additional ten days off and the necessity of making up every day, would put most of the

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 3/7/85, continued

school districts in this area all the way back to about the 10th or 15th of June. Approximately 30 percent of our summer enrollment comes from the public schools; they come as teachers for retraining, recertification, workshops, etc., in order to get a head start on their programs in the fall. Obviously, if their schools are not out, they cannot enroll in the first summer session. It is too late for them to enroll in the second summer session because they must be in their own schools at that time; also, graduating seniors could not enroll. It is on behalf of these types of summer session students that the change was suggested.

Answering a question from Dr. Hinckley, Dr. Watt said this calendar changes the beginning date for Summer Session from June 9 to June 16.

Dr. Hinckley asked if this change automatically assumes the addition of snow days. Dean Carrino responded that at the present time the City of Akron is the only system to specifically end school after the University begins. He said 123 different schools in the area were surveyed and it was learned that almost all of them would have been approximately a week to a week and a half ahead of the University, but if snow days must be made up, that naturally adds on ten extra days, so there would be no school districts in this area conforming to the University's calendar.

Dr. Watt added that there are some school districts in Akron alone which already have their calendar for next year and they do not finish before June 13.

Following Dr. Hinckley's reference to the extensive discussion of the calendar in the subcommittee discussions and the attempt to alter the 48 hour rule for turning in grades after final examinations, Dr. Gerlach asked the Chairman to clarify the rule and its source since he was unable to locate it in the Faculty Manual.

Dr. Watt apologized, saying the source of the rule is not the Faculty Manual, but is a resolution passed by University Council on April 3, 1972. He then read an excerpt from a memo that Dr. Leathers sent to all faculty on April 19, 1979: "I wish to call your attention to the following policy statement included in a resolution approved by University Council on April 3, 1972: "The final examination week shall be held during the eleventh week and shall consist of a full six-day week. All final examinations shall be given during this eleventh week and not the preceding week. Grades, including senior grades, will be due 48 hours after the examination with a final deadline of noon Monday following examination week." He said that rule has been in effect since 1972 and was reiterated in this memorandum which was generated by discussion in Council, particularly with regard to the early offering of final examinations during the last week of classes. Reference to the eleventh week, of course, was on the quarter system and, as was stated in the memorandum, should be translated to the sixteenth week under the semester calendar. Prior to the early 1970s, this was in the Faculty Manual, was revised about 1975, and was made a part of the Administrative Handbook. (A copy of the Administrative Handbook has been given to all deans.)

Dr. Gerlach wondered if the Chair would recommend taking up the prospect of a change in this rule during this meeting, either now or later under "New Business". With the Chair's approval this item was postponed for consideration under "New Business".

Discussion continued regarding the grades deadline and the activity which takes place between the time the deadline occurs and the time registration begins. Dr. McGucken commented that December 24 is Christmas Eve and the 25th is Christmas Day and said he assumed that the Registrar's office would be closed for those two days, which means no one would be working on grades until December 26. Dr. Jackson was of the opinion that the implication is that as long as the grades are in it doesn't matter what the grades

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are or how they are derived, just so the bureaucracy gets rolling. He continued that this comes up for discussion every year and every year the same objections are heard.

The Chair requested that all discussion be directed to the major motion on the calendar for 1985-86 including the Summer of 1986.

Miss Cindy Hostetler, the Evening Student Council representative, said that in view of Dean Carrino's explanation, she had no personal objection to having the calendar moved, but wanted to say for the record that the students would prefer to have one week between the end of the fall semester and Christmas rather than having the fall semester end on top of Christmas. Most of the evening students hold jobs and have families, which makes it a very difficult time. Also, the evening students definitely need a one-week break between Summer Session II and the fall semester. Many of them go from six to twelve hours in the evening and many of them take twelve hours in the summer. Reducing the two-week break to one week would present difficulties.

Dr. Gerlach asked if there had been any clarification or further information about inserting on this calendar dates for Martin Luther King Day and May Day.

Dr. Watt said that he had told the Academic Policies, Curriculum and Calendar Committee that these questions, as well as the calendar for 1986-87 would be considered at the Committee's next meeting in March. It was his opinion that by waiting until then, information regarding the federal mandate on Martin Luther King Day would have been received.

The Chair then asked for Council's action on the motion to approve the 1985-86 calendar as presented by Mr. Baldwin. The motion carried with a vote of 44 affirmative and 6 negative.

Dean Barker, reporting for the Athletics Committee, said a meeting was held on February 19, 1985 and Mr. Adams met with the committee for the first time. The composition of the Athletics Committee was reviewed. Mr. Adams met with all the coaches and made his position very clear in that he would live up to all the rules and regulations of NCAA and the OVC. The committee also recommended that the Sports Information Director be moved from the Development Office to the Athletics Office, which has been done.

Continuing with reports from the standing committees, Dr. Savinell said his committee met on February 20, 1985. Mr. Donald Bowles was present and discussed some new architectural projects planned for this campus. Mr. Bowles also presented the method followed for choosing the architect for the new Law Building addition. He invited the committee members to attend the formal presentation. The committee also took note of the fact that Mr. Bowles could not remain as a member of the group and would be replaced by Mr. Roger Ryan, as noted by the Procedural Committee. The next meeting is scheduled for March 20.

Dr. Gerlach wondered why this committee has not reported or given the slightest hint of a serious problem that has evidently arisen regarding inadequate classroom space and the fact that for the next calendar year classes will be spread over all sorts of ungodly hours, including 7 a.m. He suggested that this committee undertake to investigate this matter with a view to the study of when adequate classroom space will be provided so that faculty will not be subject to such a spread in classes.

Dr. Savinell replied that this has been discussed in committee with Mr. Bowles, the statistics have been noted, and it will be brought up at the next meeting.

Dr. Fleming wanted to know if the committee has any recourse in selecting the type of classrooms assigned. He said some of the classrooms are absolutely impossible for

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 3/7/85, continued

teaching purposes—the noise level is unbelievable, and not only can the students not hear the instructor, the instructor can't hear the students. Many students, of course, are compliant enough to go along with it, but some have actually dropped courses because it is impossible to study or work in the classroom.

Dr. Savinell said this is also a matter that has been discussed at length with Mr. Bowles at committee meetings. He said the Facilities Planning Committee does have input to the Facilities Planning Department on such campus matters, and assured him that the committee will continue to pursue it.

Dr. Fleming asked if some sort of feedback could be given to Council at the next meeting.

Dr. Watt suggested that any particular problem with a particular classroom could be taken up with the Registrar. He added that the first priority on the next biennium part of the budget for this institution is classroom space, but that we are looking about three years in the future before we get any new buildings. Most of the reasons for the shortage of classroom space are academic in nature. This year, in order to serve many departments, provision had to be made for microcomputer facilities and the only source of space for these laboratories was classroom space. This problem has arisen during the last couple of years as a result of the 1.1 million dollars received from the State to be spend on computer equipment.

Dr. Fleming said his basic comment concerned the quality of the rooms themselves.

Dr. Jackson brought up a long standing problem which he said surfaces with every new building to be erected and the expectation that a building would be constructed with the basic tenants in mind. He suggested one method of dealing with this problem might be to ask the appropriate committee to conduct a survey of the faculty and subsequently submit a list of minimal requirements and essentials for teaching facilities. Dr. Jackson moved that the Campus Facilities Planning Committee investigate minimum standards for teaching facilities and the suitability of current classrooms and report their findings back to Council. The motion was seconded and carried.

There was no report from the Faculty Rights and Responsibilities Committee.

Mrs. Clinefelter, for the Faculty Well-Being Committee, read the following report:

The Faculty Well-Being Committee met on February 8 and 22 to consider the health insurance needs of the part-time faculty and an Employee Assistance Program for the faculty and staff at the University. The EAP proposal will be discussed under "New Business" at the March meeting of Council. Copies of this plan with introductory material have been distributed to Council members.

On the question of health and major medical insurance for part-time faculty, the committee recommends the following:

1. The University should offer this insurance as financial protection for part-time faculty in some way whether by group policy, pro-rated benefits, or a combination of both. This is especially valid in view of the fact that other state universities in Ohio do offer or provide such coverage.
2. The Faculty Well-Being Committee realizes that this is a complex question involving form of appointment, administrative cost, percentage of full load taught, and other questions on both coverage and cost.

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3. For these reasons the Faculty Well-Being Committee further recommends that consideration of this basic recommendation be undertaken by the Ad Hoc Committee on Part-Time Faculty which is to be chaired by Dr. Helmick and that this committee report to the part-time faculty members by December 1985.

The Faculty Well-Being Committee has had this question under consideration for the last two years. It has studied the problems and sent out a questionnaire to all part-time faculty. It is the belief of the committee that further detailed work on the question should be undertaken by those involved, our colleagues the part-time faculty, working on a committee with other faculty members and members of the administration directly concerned with part-time faculty.

Mrs. Clinefelter moved approval of her report. The motion was seconded and carried.

The floor was then relinquished to Mrs. Linda Weiner, a part-time instructor in General Studies at the University. Mrs. Weiner opened her remarks by saying that she has been teaching English Composition in General Studies for the past ten years and during that time has taught English Composition 111 and 112 and English Honors 111 and 112. For the last year and a half she has been part-time faculty representative for the English Department and last year distributed a questionnaire to part-time faculty in that department asking them to rate the benefits that they do not have and that they most desire. The benefits ranked highest by the majority of replies were health care benefits. This questionnaire was also distributed by the Faculty Well-Being Committee a year ago, and revealed that a significant number of part-time faculty have no coverage at all, while others have inadequate coverage. Mrs. Weiner said she talked with some part-time faculty, many of them one parent households paying health insurance premiums beyond what they can afford because they do not qualify for group coverage; she talked with others who teach both here and at Kent State University, people who year after year teach a heavier load of courses for the State of Ohio than many full-time faculty members at either institution; and these people are not eligible for health benefits and are not eligible to be included in the University's group insurance. This is unjust. She charged that University Council has accepted the responsibility for seeing to the well-being of The University of Akron faculty and the part-time faculty are also a part of that faculty—an especially important part, if one considers the vast numbers of students being taught by part-time faculty. Their well-being should also be of valid concern to Council and to the University itself. All the ethical and moral considerations applied to full-time faculty should apply to part-time faculty, also. She asked Council to remind the University of this by supporting the Faculty Well-Being Committee's recommendation. In conclusion, she thanked Council for the opportunity to speak.

The Chair thanked Mrs. Weiner for her comments and opened the matter for discussion.

Dr. Dye inquired if the Ad Hoc Committee on Part-Time Faculty exists at this time. ✓

Dr. Watt replied that it is in the process of being appointed. He said that some revisions in the rules and regulations regarding part-time faculty are expected and that there will be part-time faculty appointed to this ad hoc committee by the end of this semester. The intent is to have the entire question of part-time faculty contracts, rules and regulations, limitations on teaching hours, ranks, ratings, procedures for promotion, etc., reviewed and to come up with a recommendation and modifications by the end of the spring 1985 semester. In answer to a question from Dr. Lehrman the Chairman said this would not be a committee of Council, but an ad hoc committee appointed by the Acting Provost.

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 3/7/85, continued

Dr. Gerlach moved an amendment to Item 3 of the report, inserting the words "and to the University Council" in the last sentence after "part-time faculty members", causing the sentence to read: "For these reasons the Faculty Well-Being Committee further recommends that consideration of this basic recommendation be undertaken by the Ad Hoc Committee on Part-Time Faculty which is to be chaired by Dr. Helmick and that this committee report to the part-time faculty members and to the University Council by December 1985." The motion was seconded and carried.

The Chairman then called the question on the adoption of the report as amended. The motion was seconded and carried unanimously.

Reporting for the Library and Learning Resources Committee, Dr. Heinzerling said the committee met on February 27, 1985. The report of the Allocations Subcommittee included detailed information on the proposed Library allocation budget, the first budget presented as a result of the new allocation procedure. This information and all support documentation continues to be available through the subject bibliographies.

Considerable time was spent on discussion of the draft of a proposed University Library Handbook. The handbook is written from the perspective of a problem approach for a user locating resources. It is estimated that the cost to students would be less than \$1.00 per copy, an amount designed just to cover printing costs. Discussion followed on the handbook itself and the best means of dissemination. At this point, the handbook has gone back to the Library Committee for revisions, changes, final draft, and then at the meeting on March 20, the committee hopes to have the final copy and will come to University Council with the recommendation that the handbook either be required as part of Freshman English, or whatever vehicle can be utilized for dissemination. Anyone is welcome to take a look at it. Final decision on the handbook was tabled until the March 20, 1985 meeting.

Answering several questions from the floor, Dr. Heinzerling said the book will be made available to students at a minimal cost, perhaps 25¢. The maximum cost of the book is \$1.00 which covers paper and printing. She said the Budget Allocations Subcommittee has completed allocating the first time through; under the new process allocations will be started again for the next fiscal year.

Mr. McCormick had no report from the Reference Committee.

Dean Gent, reporting for the Research (Faculty Projects) Committee said meetings were held on March 4 and 5 in two very lengthy sessions. Thirty-seven applications were assessed for a sum of \$84,757.95. Recommendations for 18 awards were made for a sum of \$30,873.00, which is the remainder of the sum allocated, and completes the awarding of the \$100,000. (A complete report is included in the Appendix to these minutes.)

Dean Hansford had no report from the Student Affairs Committee.

Dr. Fleming, the Akron representative on the Faculty Advisory Committee to the Chancellor of the Ohio Board of Regents, reported on the meeting in Columbus on Tuesday, March 5, 1985. The Chancellor reported on the status of the Challenge Grants Program. On Wednesday, March 6, higher education needs will be argued before the House Budget Committee by University presidents; on Thursday, March 7, presidents of two-year colleges will present their testimonies. The Chancellor anticipates that the Budget Committee's recommendations will go to the floor of the House by mid-April. Chancellor Coulter emphasized that all academic departments and disciplines are eligible for funding under the Challenge Programs. Representative Stinziano reintroduced his bill to place student members on boards of trustees, but the Chancellor senses little real enthusiasm for the idea, either among college and university administrators or in the Assembly itself. (Dr. Fleming's report is included in the Appendix to these minutes.)

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 3/7/85, continued

There being nothing to bring before Council under "Old Business", the Chairman continued to the next agenda item, "New Business" and called upon Mrs. Clinefelter to introduce the Employee Assistance Program which comes from the Faculty Well-Being Committee and had been distributed to members of Council prior to this meeting. (The complete report is included in the Appendix to these minutes.)

Mrs. Clinefelter indicated that most of the material had been supplied to the committee by Dr. Jean Hoffer of the College of Nursing. Dr. Hoffer is The University of Akron's representative on the Task Force for the Employee Assistance Program which is attached to the Ohio Recovery Council. (A description of the Council is contained in the second paragraph describing Governor Celeste's ideas on the subject.) Before answering questions, Mrs. Clinefelter moved adoption of the report. The motion was seconded.

Continuing, Mrs. Clinefelter said the main features of this program are:

- (a) participation is entirely dependent upon the individual;
- (b) it is a voluntary program;
- (c) it is completely confidential.

The committee was of the opinion that complete confidentiality is one of the strong points in having an external program. All other employers in the State of Ohio, except for the universities, have had Employee Assistance Programs provided by the Governor. The universities, using faculty input, are supposed to set up a separate program. Since the committee cannot name an agency, University officials must select an agency according to law and administer the program if it is passed. Mrs. Clinefelter emphasized that this program would not cost the individuals anything. This is to be a very broadly based program, not one for the treatment of alcoholism only. Item 2.C. on the last page can be extended to include "licensed psychologist, physician, or social worker" prior to the statement on the Alcoholism Counselor.

Replying to a question from the floor regarding the services already on campus and the reasons for not enlarging those services instead of going to outside persons, Mrs. Clinefelter said such a proposal had not been submitted to the Faculty Well-Being Committee for discussion.

Dr. Dye noted the fact that no one from the University's Testing and Counseling Services had been involved in setting up this program. Mrs. Clinefelter told him that this program has a long history; it has had different people involved at different times; at one time there was an ad hoc committee composed of faculty members; at another time, Mr. William Jones, then Head of the Personnel Department, had submitted a proposal. Finally, President Guzzetta suggested that the ad hoc committee turn the information they had gathered over to the Faculty Well-Being Committee, which is the official faculty committee concerned with this type of material. The Faculty Well-Being Committee has received information from the ad hoc committee and also from Dr. Thomas O. Brown, who heads the present program on campus. Since no other formal proposals were received, the Faculty Well-Being Committee has attempted to modify the program and eliminate objections before coming to University Council with the present proposal.

Concern was evidenced regarding the \$20,000 cost. Mrs. Clinefelter said the committee was also curious about this cost and Dr. Hoffer had answered the question very satisfactorily by saying that this \$20,000 is the counseling portion. The cost of treatment required will go back on the individual's hospitalization.

Dr. Hinckley asked if the State is requiring that the University construct such a plan, and if not this one, what kind of options are involved.

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 3/7/85, continued

Mrs. Clinefelter said that universities are the only state institutions who have the privilege of setting up their own programs.

Dr. Watt interjected, saying the State has mandated a program for state employees and the only state employees not under that type of program are the universities. What the Governor and the committee are saying is that programs have been mandated for state employees, but universities are being allowed to develop their own. The clear implication is that if the University does not develop its own program, then a program will be mandated.

Dr. Jones said he thought the Counseling and Testing Center on campus does an adequate job using the licensed psychologists on their staff and they have an excellent reputation in the community. He wondered if, in light of the present budgetary situation, it might be more feasible to spend money developing what is already on campus. He moved that the Council refer this back to the committee, with Dr. Brown's plan, to see if our present facilities can be developed and return with an additional proposal. The motion was seconded.

The Chairman then called for discussion on the motion to refer.

Dr. Heinzerling pointed out that the \$20,000 figure, with normal conferences at \$50 per hour, comes to about 400 hours of counseling, which is not very much. By the time the agency does the mailings, etc., much of that money would be expended on paper work. She questioned, as did Dr. Jones, whether or not this outside agency is really needed.

Dean Carrino agreed with Dr. Jones saying that, having served on this committee twice over the past several years and having seen the program abandoned and allowed to wither and die on the vine, he would not like some assurance that it would move forward.

At this point, the Chairman reminded Council that there is on the floor a motion to refer, which is what should be under discussion. He took the position that any discussion now must be germane to that motion to refer, and not to the main motion.

Dean Barker spoke in support of Dr. Jones' motion to refer.

Dr. Beyer was of the opinion that the campus services provide more confidentiality than would be provided by an outside agency.

Dr. Gerlach supported the motion to refer, but suggested that Dean Carrino, since he does not want the proposal to "wither and die on the vine", should give the committee instructions to report back by a certain date.

Dr. Watt called attention to the fact that, traditionally, (with the exception of last year when business was taken care of at the May meeting) formal action by Council must be completed by the April meeting. He suggested that the April date be used.

The Chairman then called for a vote on the motion to refer back to the Faculty Well-Being Committee for reconsideration all of the factors that have been raised and to report back at the April meeting of Council with a recommendation. The motion to refer was seconded and carried.

Dr. Gerlach opened the subject of the resolution on the 48 hour requirement for submission of grades which was passed in 1972. He moved that the 48 hour requirement be suspended for the fall semester of the next academic year because of the difficulties in December. The motion was seconded.

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 3/7/85, continued

During the ensuing discussion, Dr. Linda Moore suggested expanding the suspension for a longer period of time and not limit the motion to December. Dr. Dye spoke against the motion to suspend since he thought the main issue is the 48 hour requirement.

Dr. Jackson offered a substitute motion to give the faculty at least two working days between the end of the examination given and the time when grades must be submitted. The motion was seconded.

Dr. Watt told Council that the 48 hour requirement had been discussed at great length by this body and there were perfectly good academic reasons for its approval. If Council wishes to seriously consider doing away with that rule, it should be referred back to some smaller group for answers to the many questions and then brought back to Council with a recommendation. He then called for a vote on Dr. Jackson's motion, reminding Council that an "Aye" vote will substitute Dr. Jackson's motion with regard to the two working days between final examinations and the due date for grades for Dr. Gerlach's motion. The substitute motion carried with 19 voting in favor; 13 opposed.

Dean Weyrick suggested that this be referred to the Academic Policies, Curriculum and Calendar Committee with the mandate to report back to Council at the April meeting.

Dr. Gerlach specified the May meeting of Council, not the April meeting.

The Chairman said that the new Council elected for this year sits at the May meeting, which is traditionally an organizational meeting only. Returning to Dr. Jackson's motion to review the question of the time between the end of final examinations and the final date for the submission of grades, he called for a vote on the motion to refer. The motion carried with two negative votes.

Dr. McGucken referred to Dr. Gerlach's question regarding the membership of the Search Committee for the Associate Provost for Student Services. He moved that University Council request President Muse to add one faculty member to the Search Committee. The motion was seconded and passed unanimously.

Dr. Watt assured Council that this would be duly transmitted to the President.

On motion, the meeting adjourned at 4:45 p.m.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 3/18/85, continued

THE UNIVERSITY OF AKRON
CALENDAR 1985-86

Fall Semester 1985 (72 Instructional Days)

*September 2, Monday	Labor Day
September 3, Tuesday	Day and Evening Classes Begin
November 11, Monday	Veterans Day (classes held; staff holiday)
**November 28, Thursday-	
November 30, Saturday	Thanksgiving Recess
December 2, Monday	Classes Resume
December 14, Saturday	Final Instructional Day
December 16, Monday-	
December 21, Saturday	Final Examination Period

Spring Semester 1986 (75 Instructional Days)

January 20, Monday	Day and Evening Classes Begin
February 11, Tuesday	Founders Day
March 24, Monday-	
March 29, Saturday	Spring Recess
May __, 1986	May Day
May 10, Saturday	Final Instructional Day
May 12, Monday-	
May 17, Saturday	Final Examination Period
May 25, Sunday	Commencement

Summer Session 1986 (49 Instructional Days)

Summer I

June 16, Monday	First 5-week and 8-week Sessions Begin
*July 4, Friday	Independence Day
July 18, Friday	First 5-week Session Ends

Summer II

July 21, Monday	Second 5-week Session Begins
August 8, Friday	Eight week Session Ends
August 22, Friday	Second 5-week Session Ends

*University closed.

**University closed from Wednesday, November 27, at 5 p.m. until Monday, December 2, at 7 a.m.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, March 7, 1985

CURRICULUM CHANGES

The following curriculum changes, in accordance with the Curricula Change process adopted by University Council on December 12, 1974, have had final approval by the Acting Senior Vice President and Provost, or through specific vote by University Council, all effective September 1985, unless otherwise noted.

BUCHTEL COLLEGE OF ARTS AND SCIENCES

AS-85-02

History

Title	3400:340 3400:340	<u>Peace, War and Mankind. TO Peace and War: The Historical Perspective.</u>
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AS-85-03

Polymer Science

Add	3940:601	<u>Polymer Concepts. 2 credits. Prerequisite: 3150:264 and 314 or equivalent courses or permission of instructor. Introduction to basic concepts in polymer science, including polymerization, copolymerization processes and naturally occurring polymers. Polymer nomenclature, definitions and classifications. Polymer stereochemistry and structure-property relationships.</u>
	3940:602	<u>Synthesis and Chemical Behavior of Polymers. 2 credits. Prerequisite: 601 or instructor's permission. Introduction to fundamentals and practical aspects of polymer synthesis and reactions of polymers; general knowledge of laboratory and commercial methods for polymer preparation; practical examples.</u>
	3940:605	<u>Polymer Chemistry Laboratory. 2 credits. Prerequisites: Basic knowledge of organic chemistry and 602 or equivalent. The preparation and identification of polymers to illustrate different methods of polymerization such as step reactions and chain reaction.</u>
	3940:631	<u>Physical Properties of Polymers I. 2 credits. Prerequisite: Permission of instructor. Thermodynamic and molecular basis of rubber elastic behavior; time-dependent mechanical properties of polymeric materials; melt-flow and entanglements; themorphology of crystalline polymeric materials; fracture of polymers.</u>
	3940:632	<u>Physical Properties of Polymers II. 2 credits. Prerequisite: 631 or permission of instructor. Normal-coordinate theories of molecular motion and applications to time-dependent mechanical, electrical, and scattering properties of polymeric systems; time-temperature superposition; free volume, WLF relation; fracture; glass transition.</u>

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, March 7, 1985

CURRICULUM CHANGES

- 3940:649 Synthesis and Technology of Elastomers. 2 credits. Prerequisites: 3150:264 or equivalent; permission of instructor. The preparation of both natural and synthetic elastomers. Emphasis on polymerization methods, polymer structure and methods of vulcanization. The modification of vulcanizates and these effects on physical characteristics of the elastomers described.
- 3940:674 Polymer Structure and Characterization. 2 credits. Prerequisite: 3150:313 and 314 or permission of instructor. Presentation of statistical description of polymer molecular properties including chain polymerization and degradation, characterization of conformation, molecular weight, local structure, crystal structures and ordering.
- 3940:675 Polymer Thermodynamics. 2 credits. Prerequisite: 674 or permission of instructor. Presentation of the theories and experiments concerning polymer solutions, polymer phase equilibria, and polymeric phase transitions and dilute solution steady-state transport.
- 3940:676 Polymer Characterization Laboratory. 2 credits. Prerequisite: 675 or permission of instructor. Laboratory analysis of polymers by fractionation, osometry, swelling, X-ray diffractive microscopy, thermal analysis, spectroscopy and chromatography.
- 3940:707 Kinetics of Polymeric Processes. 2 credits Prerequisites: 632 and 675 or permission of instructor. Principles of kinetic theory and statistical mechanics are applied to apolymer diffusion, polymerization kinetics, polymer adsorption, membrane transport, polymeric phase transformations, gel formation, and colloidal destabilization.

AS-85-04
Geography

Revise Bachelor of Science in Geography/Cartography as follows.

Page 62 of General Bulletin, first line:

- Completion in the Community and Technical College of the surveying option in the associate degree program in Surveying and Construction Technology or the associate degree program in Drafting Technology.

AS-85-05
Political Science

Title, Description

- 3700:600 Seminar in Political Theory. TO
3700:600 Scope and Theories of Political Science. 3 credits. Prerequisite: six credits of political science or permission of instructor. Emphasis on the nature, scope and content of political theory; theory construction and validation in political science.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, March 7, 1985

CURRICULUM CHANGES

Number, Title		
3700:640		<u>Seminar in Political Behavior. TO</u>
3700:601		<u>Research Methods in Political Science.</u> 3 credits. Prerequisite: six credits of political science, including 440 (or a satisfactory equivalent) or permission of instructor. Techniques of quantitative research methodology in political science; utility and limitations of quantitative analysis.

AS-85-06
Political Science

Revise Master of Arts in Political Science as follows.

Page 131 of General Bulletin.

- Pass a comprehensive examination covering one field to be determined in conjunction with a departmental adviser.
- Complete the following courses:

3700:600 Scope and Theories of Political Science 3
3700:601 Research Methods in Political Science

At least three graduate seminars given in the Department of Political Science. Seminar selection will be determined in conjunction with a departmental adviser.

Thesis Option

Thirty credits of graduate work, at least 18 credits of which (including six thesis credits) must be at the 600 level. Thesis topic and completed thesis must be approved by student's thesis committee.

Non-Thesis Option

Thirty credits of graduate work, at least 18 credits of which must be at the 600 level. Each student must submit two high-quality seminar papers for approval by a department committee of three persons chosen by the department head.

AS-85-07
Geology

Revise Master of Science in Geology as follows.

Page 129 of General Bulletin.

Eliminate "General Areas of Courses"

Revise "Degree Specialization" as indicated below.

The program of each individual will be adapted to his/her career objectives.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, March 7, 1985

CURRICULUM CHANGES

Geology

Equivalents of the geology, cognate science and mathematics requirements for the University's B. S. degree in geology are required.

Earth Science

Equivalents of the geology courses for the University's B.A. degree in geology are required. Course program will be selected to provide the student with a well-rounded background in lithosphere, hydrosphere, and atmosphere. Those who will be teachers must take 5300:780 Seminar in Secondary Education: Earth Science or equivalent.

Geophysics

Equivalents of the geology, cognate science and mathematics requirements for the University's B. S. degree in geophysics are required.

Engineering Geology

No change

Environmental Geology

Equivalents of the science and mathematics requirements for the University B. S. degree in geology are required. As many as eight credits may be selected from engineering, biology and/or geography with the approval of a geology advisor.

AS-85-08

Psychology

Drop	3750:729	<u>Functional Analysis of Behavior.</u> 4 credits.
Add	3750:741	<u>Survey of Counseling Methods.</u> 4 credits. Prerequisites: 620 and 630; graduate standing in psychology or permission of instructor. An experiential survey of treatment methods from a variety of theoretical approaches. Approaches include, but are not limited to, behavioral, gestalt, cognitive and psychodynamic methods.
Description	3750:795	<u>Advanced Counseling Practicum.</u> 4 credits. (may be repeated) Prerequisites: 671, 672, 673 and permission of instructor. This course provides graduate students in counseling with actual client contacts and supervisory experiences under faculty supervision.

AS-85-09

Chemistry

Drop	3150:665 3150:404/504	<u>Bioenergetics.</u> 2 credits. <u>Biochemistry Lab I.</u> 1 credit
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CURRICULUM CHANGES

Add	3150:664	<u>Membrane Biogenesis</u> . 2 credits. Prerequisite: 401/501 and 420/502. Structure, function and biosynthesis of membranes, compartmentation of intracellular and secretory proteins, posttranslational modification, mitochondrial genetics.
	3150:663	<u>Advanced Metabolism</u> . 2 credits. Prerequisite: 401, 402 or permission of instructor. Study of advanced pathways in carbohydrates, lipid and protein metabolism with emphasis placed on metabolic dysfunction.
	3150:666	<u>Bioinorganic Chemistry</u> . 2 credits. Prerequisites: 401, 402, 471 or permission of instructor. Survey of the structure and properties of metal ion complexes with amino acids, nucleotides, metabolites and macromolecules; metal ion metabolism; metals in medicine.
Credits, Title, Des- cription	3150:405/505	<u>Biochemistry Laboratory II</u> . 1 credit. TO <u>Biochemistry Lab</u> . 2 credits. Prerequisite: 401/501. Methods for separation and analysis of amino acids, proteins, carbohydrates, lipids, and nucleic acids and their metabolism, Chromatography, electrophoresis, centrifugation, spectrophotometry, and use of radioisotopes.

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AS-85-12

Mathematical Science

Prerequi- sites	3460:201	<u>Introduction to FORTRAN Programming</u> . TO Prerequisite: 111, 112, 114 or 147 or equivalent. 3460:201 does not meet Computer Science major, minor and/or certificate requirements.
	3450:111	<u>Algebra</u> . TO. Prerequisite: Placement.
	3450:147	<u>Elementary Functions I</u> . TO Prerequisite: Placement.
	3450:148	<u>Elementary Functions II</u> . TO Prerequisite: Placement.
	3450:149	<u>Precalculus Mathematics</u> . TO Placement.
	3450:215	<u>Concepts of Calculus I</u> . TO Prerequisite: 149 or equivalent or Placement.
	3450:221	<u>Analytic Geometry-Calculus I</u> . TO 149 or equivalent or Placement.
Drop	3450:127	<u>Computer Science Topics I</u> .
	3450:128	<u>Computer Science Topics II</u> .

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CURRICULUM CHANGES

Credits, Prerequi- sites, Descript- tion	3450:211	<u>Calculus for the Life Sciences I.</u> TO 3 credits. Prerequisite: 149 or equivalent or placement. A calculus course for students majoring in the biological and health sciences. Functions, limits and continuity, differentiation, applications of derivatives, exponential and logarithmic functions, integration.
	3450:212	<u>Calculus for the Life Sciences II.</u> TO 3 credits. Prerequisite: 211. A calculus course for students majoring in the biological and health sciences. Trigonometric functions, applications of derivatives of differentiation and integration, differential and difference equations, functions of several variables, infinite series, vectors and matrices.
Add	3460:306	<u>Assembly Language Programming.</u> 3 credits. Prerequisite: 210. Basic computer organization and data representation. Programming in assembly language on a typical digital computer. Subroutine linkage and macro instructions.
	3460:128	<u>Advanced BASIC Programming.</u> 1 credit. Prerequisites: 126 or equivalent. A continuation of 126 to include such topics as arrays, files, graphics, simulations, subroutines, top-down programming, control structures, and applications. Hands-on experience in the Apple Lab will be scheduled.

AS-85-13

Mathematical Sciences

Revise Minor in Computer Science as follows:

3450:221,1	Analytic Geometry-Calculus I, II	8
	OR	
3450:215,16	Concepts of Calculus I, II	8
3460:209	Computer Programming I	3
3460:210	Computer Programming II	3
3460:316	Data Structures	3
3460:306	Assembly Language Programming	3
	Approved 300/400 level computer science electives	6
	TOTAL	26

Revise Computer Science Certificate Program as follows:

Entrance

To qualify for the Computer Science Certificate program, a student must be in good academic standing in the major department, must have completed four credits of mathematics* in the Department of Mathematical Sciences and must submit to the department head a written request for admission to the program. The request will outline the student's reasons and goals for enrolling in the program. The area of concentration adds a further dimension of both mathematics and computer science

*3450:149 Precalculus Mathematics is prerequisite course for computer science courses and has been changed from 3 credits to 4 credits.

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CURRICULUM CHANGES

to the student's major in one of the traditional academic disciplines.

Courses

3450:215	Concepts of Calculus I	4
3450:216	Concepts of Calculus II	4
	OR	
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
	AND	
3460:209	Computer Programming I	3
3460:210	Computer Programming II	3
3460:316	Introduction to Data Structures	3
3460:306	Assembly Language Programming	3
3460:420	Structured Programming	3
	Approved 300/400 level Computer Science electives	<u>3</u>
		26

AS-85-14

Mathematical Sciences

Title, Credits, Prerequisite, Description	3470:463/563	<u>Experimental Design</u> . TO 4 credits. Prerequisite: 461/561 or 661 or equivalent. Analysis of variance; crossed, nested designs; multiple comparisons; power considerations; randomized blocks, repeated measure designs, latin squares, random and fixed effects, analysis of covariance, applications.
Drop	3470:464/564	<u>Experimental Design II</u> . 2 credits.
Add	3470:644	<u>Advanced Experimental Design</u> . 2 credits. Prerequisites: 3470:463/563. An extension and continuation of 563 to include topics from confounding, fractional factorial designs, split plot designs, analysis of covariance, unequal subclass frequencies, tests of assumptions, applications.
Title, Credits, Prerequisite, Description	3470:651 3470:651	<u>Mathematical Statistics I</u> . TO <u>Probability and Statistics</u> . 4 credits. Prerequisite: 561 or 661 or equivalent and 3450:601 or equivalent. Probability, random variables, moments and generating functions, random vectors, special distributions, limit theorems, sampling, point estimation, hypothesis testing, confidence estimation.
	3470:652 3470:652	<u>Mathematical Statistics II</u> . TO <u>Advanced Mathematical Statistics</u> . 2 credits. Prerequisite: 651. Moment generating functions, convergence - in distribution - in probability - almost everywhere, estimation - properties and criteria, likelihood, test construction, order statistics and nonparametric methods, bivariate normal distribution.

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CURRICULUM CHANGES

Add	3470:620	<u>Applications of Matrices to Statistics.</u> 3 credits. Pre-requisite: 461/561 or equivalent. Matrices, introduction to multivariate normal distribution, applications of matrices to linear models.
Prerequi- sites	3470:655	<u>Linear Models.</u> TO Prerequisite: 620 and 651.
	3470:668	<u>Multivariate Statistical Methods.</u> TO Prerequisite: 463/563 or 662 or equivalent.
	3470:689	<u>Advanced Topics in Statistics.</u> TO Prerequisite: 651.
	3470:461/561	<u>Applied Statistics.</u> TO Prerequisite: 3450:222 or 216 or equivalent.

Revise B.S. degree or B.A. degree with a major in statistics as follows.

- FROM: 3470:463 Experimental Design I. 3 credits.
TO: 3470:463 Experimental Design. 4 credits.
- FROM: A minimum of three additional credits of approved 300 and/or 400 level courses in the department.
TO: A minimum of two additional credits of approved 300/400 level courses in the department.

Revise Master of Science degree in Statistics as follows.

- Entrance into the program will require the initial completion of the following prerequisites:
 - 3470:561 Applied Statistics, 4 credits; OR 3470:661 Advanced Behavioral Statistics, 3 credits; OR equivalent.
 - 3450:601 Introduction to Analysis, 4 credits; OR equivalent (may not be used to meet degree requirements for mathematical sciences majors).
 - 3470:620 Applications of Matrices to Statistics, 3 credits; OR equivalent. (Can be taken concurrently with 3470:651 Probability and Statistics, 4 credits.)
- Core requirements

3470:651	Probability and Statistics	4
3470:563	Experimental Design	4
3470:665	Regression and Correlation	3
3450:692	Mathematics and Statistics Seminar	2

Thesis Option (30 credits of graduate work)

In addition to the core requirements, thirteen to fifteen credits in 500/600 level mathematical sciences courses and two to four credits in 3450:699 Thesis Research must be completed, at least ten credits of which must be from the 3470 designation.

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CURRICULUM CHANGES

Non-thesis Option (33 credits of graduate work)

In addition to the core requirements, twenty credits in 500/600 level mathematical sciences courses must be completed, at least ten credits of which must be from the 3470 designation.

- A comprehensive examination, taking the form suggested by the department, must be completed in the thesis or non-thesis option.
- With the consent of the department, up to six credits of approved graduate level electives outside the department may be substituted in the thesis or non-thesis option.

AS-85-15
Sociology

Description	3850:617	<u>Sociological Theory</u> . 3 credits. TO Examination of the classic theoretical statements that form the foundation of sociological theory. Emphasis on classic sociological theory and its contributions to contemporary theory and research.
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AS-85-20
Sociology

Revise Master of Arts: Thesis Option as follows.

Satisfactory completion of 32 semester credits of which at least 21 must be at the 600 level or higher in Sociology or Anthropology (excluding 3850:699; 3850:697 and 3850:698). In meeting these requirements the student must:

1. Complete five required core courses with at least a 3.00 grade point average:

3850:603	Sociological Research Methods	3
3850:604	Social Research Design	3
3850:617	Sociological Theory	3
3850:631	Social Psychology	3
	OR	
3850:645	Social Organization	3
3850:706	Multivariate Techniques in Sociology	3

2. Complete at least six hours of thesis work (3850:699). No more than six credits will count toward the degree.
3. Completion of Master's thesis and successful oral defense of thesis.

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CURRICULUM CHANGES

Revise Master of Arts: Non-Thesis Option I as follows. This degree is intended for the student who wants intensive substantive training in a specialized area.

Completion of 32 credits of graduate work with no more than six credits taken at the 500 level. In meeting these requirements the student must:

1. Complete four required core courses with at least a 3.00 grade point average:

3850:603	Sociological Research Methods	3
3850:604	Social Research Design	3
3850:617	Sociological Theory	3
3850:631	Social Psychology	3
	OR	3
3850:645	Social Organization	

2. Completion of at least 15 credits in a contracted specialty area. This area must be defined in consultation with the student's adviser and approved by the Graduate Studies Committee. Courses from other departments may be taken to meet the specialty requirement.
3. Pass an oral examination on the specialty area.

Revise Master of Arts: Non-Thesis Option II as follows.

This degree is intended for the student who needs rigorous training in the methodologies and techniques of social research. Students pursuing this degree will select one of three options: general research techniques, survey research techniques, or evaluation research techniques. Upon completion of this program, students will have a greater exposure to research strategies, techniques and issues than many Ph.D. students experience.

Completion of 32 semester credits of graduate level coursework which must include the following:

1. Complete the following required courses with at least a 3.0 average:

3850:617	Sociological Theory	3
3850:631	Social Psychology	3
	OR	3
3850:645	Social Organization	
3850:603	Sociological Research Methods	3
3850:604	Social Research Designs	3
3850:706	Multivariate Techniques	3
3850:711	Survey Research Methods	3

2. Complete two courses (6 hours) under one of the following options:

General research methodology

3850:707	Measurement in Sociology	
3850:708	Advanced Techniques in Research	
3850:709	Analysis of Sociological Data	
3850:710	Sampling	
3850:712	Experimental and Quasi-Exp Research	
3850:714	Qualitative Methodology	

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, March 7, 1985

CURRICULUM CHANGES

Survey research methodology

3850:710 Sampling
3850:750 Research: Akron Area Survey

Evaluation research methodology

3850:613 Sociology of Program Evaluation
and Program Improvement
3850:712 Experimental and Quasi-
Experimental Research

3. Complete five credits of elective coursework.
4. Complete at least three credits of 3850:698 Directed Research culminating in a research paper on a topic appropriate to the student's research methodology option (i.e., general, survey, or evaluation). No more than three credits will count toward the degree. Guidelines for the content of the paper and for selecting the student's research advisor available in the department.
5. Pass a two-hour defense of the research paper written for 3850:698 Directed Research.

AS-85-21
Physics

Number	3650:458/558 3650:325	<u>Laboratory Data Analysis.</u> 3 credits. <u>T0</u> <u>Laboratory Data Analysis.</u> 3 credits.
Description	3650:481,2/ 581,2	<u>Methods of Mathematical Physics I and II.</u> 3 credits each. Prerequisites: 292, 3450:235 and senior or graduate standing in a physical science or engineering. Vectors, generalized coordinates, tensors, calculus of variations, vector spaces, linear transformations, matrices, eigenvalues, Hilbert space, boundary value problems, transcendental functions, complex variables, analytic functions, Green's functions, integral equations.
	3650:325	<u>Laboratory Data Analysis.</u> 3 credits. Corequisite: 322, prerequisite: 4450:206. Numerical methods for laboratory data. Calculator and computer methods and programs to draw correct inferences and maximize usefulness of laboratory data.
Title, Description	3650:431/531 3650:431/531	<u>Mechanics.</u> 3 credits. <u>T0</u> <u>Mechanics I.</u> 3 credits. Prerequisite: 292 and 3450:235. Mechanics at intermediate level. Newtonian mechanics, motion of a particle in one dimension, central field problem, system of particles, conservation laws, rigid bodies, gravitation.

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CURRICULUM CHANGES

	3650:436/536 3650:436/536	<u>Electricity and Magnetism. 3 credits. TO</u> <u>Electromagnetism I. 3 credits. Prerequisites: 292, 3450:235 or permission of instructor. Electricity and magnetism at intermediate level. Electrostatics and magnetostatics, electric field, scalar potential, dielectrics, Laplace's and Poisson's equations, currents, magnetic field, vector potential, magnetic materials, inductance.</u>
	3650:661 3650:661	<u>Thermodynamics and Statistical Mechanics I. 3 credits. TO</u> <u>Statistical Mechanics. 3 credits. Prerequisite: 442/542 or permission of instructor. Fundamental principles of statistical mechanics, Gibbs, Fermi and Bose Statistics, solids, liquids, gases, phase equilibrium, chemical reactions.</u>
Number, Description	3650:410/510 3650:310	<u>Electronics. 3 credits. TO</u> <u>Electronics. 3 credits. Prerequisite: 262 or 292. AC and DC circuit theory, digital integrated logic circuits, counters, digital waveshaping, A to D and D to A conversion and applications.</u>
	3650:411,12 3650:322,23	<u>Intermediate Laboratory I and II. TO</u> <u>Intermediate Laboratory I and II. Prerequisite: 262 or 292. Laboratory course stressing measurement techniques with contemporary laboratory apparatus. Experiment design, instrument calibration and reporting emphasized. Modern physics experiments and measurements of fundamental natural constants.</u>
	3650:420/520 3650:320	<u>Optics. 3 credits. TO</u> <u>Optics. 3 credits. Prerequisites: 262 or 292 and 3450:223. Geometric optics: reflection, mirrors, refraction, lenses, optical instruments. Physical optics: waves, superposition, coherence, lasers, interference, diffraction, absorption and scattering, dispersion, double refraction, polarization, optical activity.</u>
	3650:681 3650:625	<u>Quantum Mechanics I. TO</u> <u>Quantum Mechanics I. 3 credits. Prerequisite: 441/541, 481/581 or permission of instructor. Basic concepts of quantum mechanics, representation theory, particle in a central field, addition of angular momenta and spins, Clebsch-Gordon coefficients, perturbation theory, scattering, transition probabilities.</u>
	3650:682 3650:626	<u>Quantum Mechanics II. TO</u> <u>Quantum Mechanics II. 3 credits. Prerequisite: 625. Foundations of relativistic quantum mechanics. Klein-Gordon and Dirac equations, spin zero particle and spin - 1/2 particles in electromagnetic field, second quantization of bosons and fermions, superfluidity and superconductivity.</u>

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CURRICULUM CHANGES

Number, Title, Description	3650:407/507 3650:441/541	<u>Quantum Physics. TO</u> <u>Quantum Physics I.</u> Prerequisite: 301 and 3450:235. Introduction to quantum theory, Schrodinger equation, observables, angular momentum, perturbation theory, variational principle, bound states, scattering theory, radiative interactions, spin and the Pauli principle.
	3650:430/530 3650:340	<u>Statistical Physics. TO</u> <u>Thermal Physics. 3 credits.</u> Prerequisite: 262 or 292. Basic principles of thermal and statistical physics. Ensembles, laws of thermodynamics, equilibrium, irreversibility, equipartition theorem, canonical distribution, Maxwell distribution, phase changes, cyclic processes, transport processes.
	3650:445/545 3650:432/532	<u>Theoretical Mechanics. TO</u> <u>Mechanics II. 3 credits.</u> Prerequisite: 431/531. Advanced mechanics at the senior or beginning graduate level, moving coordinate systems, mechanics of continuous media, Lagrange's equations, tensor algebra and stress analysis, rotation of rigid bodies, vibration theory.
	3650:446/546 3650:437/537	<u>Electromagnetic Theory. TO</u> <u>Electromagnetism II. 3 credits.</u> Prerequisite: 436/536. Special relativity, four vectors, Maxwell's equations in covariant form; propagation, reflection and refraction of electromagnetic waves; multipole radiation.
	3650:651 3650:641	<u>Theoretical Classical Physics I. TO</u> <u>Lagrangian Mechanics. 3 credits.</u> Prerequisite: 432/532 or permission of instructor. Principle of least action and Lagrangian equation of motion, conservation laws, integration or equation of motion, collisions, small oscillations, Hamilton's equations, canonical transformations.
	3650:652 3650:615	<u>Theoretical Classical Physics II. TO</u> <u>Electromagnetic Theory I. 3 credits.</u> Prerequisite: 437/537 or permission of instructor. Electrostatics and magnetostatics at advanced level for graduate students, boundary value problems, dielectrics, multipole expansions, time-varying fields, Maxwell's equations and electromagnetic waves, reflection, refraction, wave guides and cavities.
Drop	3650:421/521	<u>Applied Physics Laboratory. 2 credits.</u>
<u>AS-85-22</u> Physics		
Add	3650:442/542	<u>Quantum Physics II. 3 credits.</u> Prerequisite: 441/541. Applications of quantum mechanics to atomic, nuclear and solid state physics. Tunneling and alpha decay, periodic potential, Hydrogen and Helium atoms, interatomic forces, quantum statistics.

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Add 3650:616 Electromagnetic Theory II. 3 credits. Prerequisite: 615. Scattering and diffraction, plasma physics, special theory of relativity, dynamics of relativistic particles in fields, collisions of charged particles, radiation from moving charges, bremsstrahlung, multipole fields.

AS-85-23
Physics

Revise Bachelor of Science in Physics as follows:

A minimum of 40 credits at 200 level or higher, including:*

3650:291,2	Elementary Classical Physics I, II	8
3650:301	Elementary Modern Physics	3
3650:322,3	Intermediate Laboratory I, II	4
3650:340	Thermal Physics	3
3650:431	Mechanics I	3
3650:436	Electromagnetism I	3
3650:441	Quantum Physics I	3

Highly recommended courses for all students:

3650:432	Mechanics II	3
3650:437	Electromagnetism II	3
3650:442	Quantum Physics II	3
3650:451,2	Advanced Laboratory I, II	4
3650:481,2	Methods of Mathematical Physics I, II	6

All other requirements in General Studies, Mathematics, Chemistry, and Computer Science remain unaltered.

*Only one of the introductory sequences 291, 2 or 261, 2 is applicable toward the required 40 credits.

AS-85-24
Physics

Revise Master of Science in Physics as follows:

Complete a minimum of 30 graduate credits of approved courses in Physics. Up to six credits of graduate-level electives outside the department may be included in the program. There is no foreign language requirement for this degree.

A cumulative grade point average of 3.0 or better for all graduate-level credits applicable toward the degree.

Complete an approved program of courses which includes the following required courses:

3650:615	Electromagnetic Theory I	3
3650:625	Quantum Mechanics I	3
3650:641	Lagrangian Mechanics	3
3650:661	Statistical Mechanics	3
3650:551,2	Advanced Laboratory I, II	4

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A student preparing for further graduate work in a physical science or for academic or industrial employment, should include the following courses in the graduate program:

3650:581,2	Methods of Mathematical Physics I, II	6
3650:616	Electromagnetic Theory II	3
3650:626	Quantum Mechanics II	3

A student preparing for teaching secondary school science should include the following courses in the graduate programs:

3650:500	History of Physics	3
3650:504	Energy and Environment	3
3650:568	Digital Data Acquisition	2
3650:590	Workshops (maximum credit)	6

A student must pass a comprehensive examination of a form suggested by the department. This exam consists of two parts, as follows:

Part I: The basic exam must be passed by all degree candidates. This is a written examination covering the fields of mechanics, electricity and magnetism, optics, thermodynamics and modern physics at the undergraduate level.

Part II: Completion of at least one of the following options:

Option A: An advanced written examination covering the fields of quantum physics, electricity and magnetism, atomic and nuclear physics, mechanics and experimental physics at the beginning-graduate level.

Option B: A formal report, based upon an original research project, submitted in a form suitable for publication and approved by a physics faculty committee.

Option C: A master's thesis.

Graduate research participation is strongly encouraged. Up to five credits may be earned in 3650:697 Graduate Research, upon the completion of a graduate research project. One additional credit may, upon approval by the department, be permitted in 3650:699 Master's Thesis Research for the completion of a master's thesis based on such research. A successful thesis may thus account for up to six of the total of 30 graduate credits required.

AS-85-25
Modern Languages

Revise Minor in French, German, Spanish, Russian or Italian as follows:

A minimum of 18 credits is required.

The student must have at least 12 credits beyond the second year excluding courses which are not counted toward a major.

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CURRICULUM CHANGES

BUSINESS ADMINISTRATION

BA-85-10

Accounting

Description	6200:454	<u>Information Systems.</u> ADD TO EXISTING DESCRIPTION: This course cannot be taken in lieu of 6500:324 Data Management for Information Systems.
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BA-85-11

Management

Add	6500:408/508	<u>Entrepreneurship.</u> Prerequisites: Upper college or graduate standing and 6500:301 or 6500:600 or equivalent. Examines the behavior and environment for entrepreneurship. Focuses on classic and contemporary entrepreneurs and the importance of personal values and strategies. Case studies. Field projects. 3 credits.
	6500:410/510	<u>Selected Topics in Entrepreneurship.</u> 1-3 credits. Prerequisites: Upper college or graduate standing and 6500:301 or 6500:600 or equivalent. Facilitates comparative international study of entrepreneurship, introduction of entrepreneurship to large organizations, or application of student's entrepreneurial skills. Six hour limit.
	6500:455/555	<u>Management of Arbitration: Commercial, International and Human Resources.</u> 3 credits. Prerequisites: Upper college or graduate standing and 6500:301 or 6500:600 or equivalent. A comprehensive study of managerial strategies for commercial, international and human resource arbitration. Graduate requirement: research paper.
	6500:458	<u>Selected Topics in Managerial Arbitration, Mediation and Conciliation.</u> 1-3 credits. Prerequisites: Upper college or graduate standing and 6500:301 or 6500:600 or equivalent. Study of the various methods and mechanisms by which management can understand and deal with internal and external conflict. Six hour limit.
	6500:324	<u>Data Management for Information Systems.</u> 3 credits. Prerequisites: Upper college standing and proficiency in the BASIC programming language or approval of instructor. Developing business application systems using BASIC and database management systems software, including sequential and random files, finding and arranging records, and database management systems applications.
	6500:425	<u>Decision Support Systems.</u> 3 credits. Prerequisite: 324. May not be taken in place of 454. Introduction to decision support systems design including applications in various functional areas. Projects may use BASIC, electronic spreadsheets, database and/or decision support system software.

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CURRICULUM CHANGES

BA-85-12

Accounting

Credits 6200:430/530 Taxation I. TO 4 credits.

Revise Bachelor of Science in Accounting as follows:

6200:301	Cost Accounting	3
6200:317	Intermediate Accounting I	4
6200:318	Intermediate Accounting II	4
*6200:355	Accounting Information Processing	3
6200:430	Taxation I	4
6200:440	Auditing	3
6200:454	Information Systems	3
*6400:320	Legal Environment of Business	4
	OR	
*6400:321	Business Law I	3
	AND	
*6400:322	Business Law II	3

Six additional credit of courses in accounting (6200), including at least three credits from the following:

6200:420	Advanced Accounting	3
6200:431	Taxation II	3
6200:460	Controllership Problems	3

And at least three credits from:

6200:420	Advanced Accounting	3
6200:425	Current Developments in Accounting	3
6200:431	Taxation II	3
6200:460	Controllership Problems	3
6200:470	Governmental & Institutional Accounting	3

*Courses 6400:320, 321 and 322 are part of the CBA core and are not major courses. These courses are listed for clarification.

BA-85-13

Finance

Title, Description	6400:401	Real Estate Investment and Finance. TO	
	6400:401	Real Estate Investment. 3 credits. Prerequisite: 371 and 400 or permission of instructor. Advanced course in real estate covering the financing of real property. Included are methods, institutions, instruments, valuation, appraisal and policy in real estate finance.	WRONG
Add	6400:403	Real Estate Finance. 3 credits. Prerequisites: 371 and 400 or permission of instructor. Advanced course in real estate covering the financing or real property. Included are methods, institutions, instruments, valuation, appraisal and policy in real estate finance.	ok

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Add	6400:432	<u>Personal Financial Planning</u> . 3 credits. Prerequisites: 371 or permission of instructor. Capstone financial services course emphasizing theory and case study applications of the comprehensive personal and professional planning process.
	6400:475	<u>Commercial and Consumer Credit Management</u> . 3 credits. Prerequisite: 371 or permission of instructor. An examination of the role of credit; the application, investigation, authorization, collection and legal processes principally from the point of view of the business manager.
	6400:481	<u>International Business Finance</u> . 3 credits. Prerequisite: 371 or permission of instructor. Theory and practice of financial wealth maximization in the international business enterprise.

Revise Bachelor of Science in Business Administration with a major in Finance as follows:

The Finance major must complete four required major courses with a minimum grade of "C" (2.0) in each required course:

6400:338	Financial Intermediaries	3
6400:343	Investments	3
6400:479	Advanced Business Finance	3
6400:373	Financial Statement Analysis	3
	OR	
6200:317	Intermediate Accounting I ^a	4

^aIf 6200:317 is selected, the student must complete 318 as a Finance major elective. See Accounting major for prerequisite for 6200:317 and 318.

The Finance major must also select at least four elective courses (two must be 6400 courses) totaling at least 12 credits from the following list:

6400:400	Real Estate Principles: A Value Approach	3
6400:401	Real Estate Investment	3
6400:402	Income Property Appraisal	3
6400:403	Real Estate Finance	3
6400:318	Risk Management and Insurance	3
6400:351	Financial Decision Making	3
6400:417	Life and Health Insurance	3
6400:419	Property and Liability Insurance	3
6400:432	Personal Financial Planning	3
6400:436	Commercial Bank Management	3
6400:447	Security Analysis	3
6400:475	Commercial and Consumer Credit Management	3
6400:481	International Business Finance	3

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CURRICULUM CHANGES

6400:497	Honors Project	1-3
6200:301	Cost Accounting	3
6200:318	Intermediate Accounting II	4
6200:460	Controllership Problems	3
6200:340	Taxation I	3

Total credits for a Finance major - eight courses with 24-27 credit hour minimum depending on how many four credit courses taken.

ENGINEERING

EN-85-02

Polymer Engineering

Add 4700:641 Polymeric Materials Engineering Sciences. 2 credits. Physioco-chemical properties of amorphous and crystalline polymers. Glass transitions, crystallization, molecular orientation and morphology of important commercial polymers, fabricated products and composite materials.

EN-85-03

Electrical Engineering

Drop 4450:207 User Languages.
 4450:306 Assembler Language Programming.
 4450:407 Systems Programming.

Title 4400:101 Engineering Design. TO
 4400:101 Introduction to Electrical Engineering.

Number 4450:206 Fortran (SCI/ENGR) TO
 4100:206 Fortran (SCI/ENGR)

Title, 4400:334 Circuits IV. TO
 Descrip- 4400:334 Active Circuits. 3 credits. Prerequisite: 333. Applica-
 tion tions of operational amplifiers including bilinear transfer
 functions, scaling, cascade design, biquad circuits, lowpass,
 high pass, bandpass-filters, Chebyshev response, sensitivity,
 delay filters, frequency transformations, ladder design,
 simulated element design, leapfrog simulation and switched-
 capacitors.

Add 4400:365 Microprocessor System. 3 credits. Prerequisite: 363.
 Consideration of microcomputer hardware and software com-
 ponents. Microprocessor and periperal devices. Instructions
 set of selected microprocessor. Introduction to microcomputer
 software.

 4450:420 Software Engineering. 3 credits. Prerequisite: 3460:209
 and instructor's permission. Software life cycle. Specifi-
 cation, design, and implementation of team projects.

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CURRICULUM CHANGES

Add 4450:470 Integrated System Design. 3 credits. Prerequisite: 470. Introduction to computer structures, design methods, and development tools for VLSI systems. nMOS devices and fabrication. Processing and control design. Layout methods and tools. Design systems.

EN-85-04

Polymer Engineering

Revise Master of Science in Engineering, Polymer Engineering Specialization as follows:

Polymer Engineering Core:

4700:611	Structural Characterization of Polymers with Electromagnetic Radiation	2
4700:621	Rheology and Polymer Processing	3
4700:622	Analysis and Design of Polymer Processing Operations I	2
4700:631	Engineering Properties of Solid Polymers	2
4700:641	Polymeric Materials Engineering Science	2

Polymer Engineering Elective:

4700:601	Polymer Engineering Seminar	1
4700:623	Analysis and Design of Polymer Processing Operations II	3
4700:642	Engineering Aspects of Polymer Colloids	2
4700:651	Polymer Engineering Laboratory	2
4700:661	Polymerization Reactor Engineering	3
	Total	6-9

Approved Engineering and Science Elective:

(A minimum of three credits of approved science or mathematics required)

3150:674	Physical Chemistry of Polymers I	2
3150:675	Physical Chemistry of Polymers II	2
3450:	Approved Mathematics	3
3940:613	Polymer Science Laboratory	2
4300:681	Advanced Engineering Materials	3
4600:622	Continuum Mechanics	3
	Total	6-9

Thesis

4700:699	Thesis	6
	TOTAL	33

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CURRICULUM CHANGES

EN-85-05

Electrical Engineering

Add	4400:646	<u>Digital Signal Processing</u> . 3 credits. Prerequisite: Calculus, operational transform techniques. Modern signal processing techniques including FIR, IIR filter design, spectral estimation (FFT algorithm and maximum entropy method).
	4450:520	<u>Software Engineering</u> . 3 credits. Prerequisite: 3460:209 and instructor's permission. Software life cycle. Specification, design and implementation team projects.
	4450:570	<u>Integrated System Design</u> . 3 credits. Prerequisite: 4400:565. Introduction to computer structures, design methods, and development tools for VLSI systems. nMOS devices and fabrication. Processing and control design. Layout methods and tools. Design systems.

EN-85-07

Biomedical Engineering

Revise Master of Science in Engineering, Biomedical Engineering Specialization as follows:

Core

3100:561,2	Human Physiology I, II	8
4800:611	Biometry	3
4800:530	Biomedical Instrumentation I	4

Elective (two of the following)

4800:613	Biomaterials and Laboratory	4
4800:623	Mechanics in Physiology and Medicine	3
4800:633	Biological Signal and Image Processing	3
4800:643	Biomedical Computing	3
4800:653	Trans. Phenomena in Biology and Medicine	3
4800:697	Special Topics (Maximum 3 hours)	3

Approved Elective 3

Approved Engineering Elective 3

Thesis

4800:699	Thesis	6
	Total	<u>33</u>

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CURRICULUM CHANGES

EN-85-08

Electrical Engineering

Drop 4400:381 Energy Conversion I.
 4400:382 Energy Conversion II

Add 4400:384 Energy Conversion I. 3 credits. Prerequisite: 231, 353. Required for all EE students. Magnetic circuits, transformers, electromagnetic forces and torques, electro-mechanical energy conversion, d.c. and a.c. machine characteristics applications.

 4400:385 Energy Conversion Laboratory. 1 credits. Prerequisite: 384. Required for all EE students. A laboratory course to follow 384. Electromagnetic forces and torques, electromechanical energy conversion, d.c. and a.c. machine characteristics.

 4400:386 Energy Conversion II. 3 credits. Prerequisite: 384. A continuation of 384. Synchronous machines, single phase motors, motor and load characteristics, machine and transformer harmonics.

 4400:388 Modern Power Systems. 3 credits. Prerequisite: 384, Corequisite: 371. Power system generation, operation and control.

 4400:470 Microprocessor Interfacing. 3 credits. Prerequisite: 362 and 363. Microprocessor structure, Bus Interface. Digital controller devices and their relationship to both the microcomputer and physical environment.

EN-85-09

Civil Engineering

Add 4300:621 Water and Wastewater Laboratory. 2 credits. Prerequisite: 426 or permission of instructor. Conduction of laboratory experiments related to the design and operation of water and wastewater treatment processes. Experimental design, data collection, analysis and report preparation.

EN-85-10

Civil Engineering

Credits 4300:130 Introduction to Engineering. 1 credit. TO 0 credit.

 4300:380 Engineering Materials Laboratory. 1 credit. TO 2 credits.

Add 4300:427/527 Water Quality Modeling and Management. 3 credits. Prerequisite: 323. Analysis and simulation of the physical, chemical and biochemical processes affecting stream quality. Development of management strategies based upon the application of water quality modeling techniques to environmental systems.

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- Add 4300:428/528 Hazardous and Solid Wastes. 3 credits. Prerequisite: Senior standing or permission of instructor. Hazardous and solid waste quantities, properties, and sources are presented. Handling, processing, storage and disposal methods are discussed with non-technical constraints outlined.
- 4300:453/553 Optimum Structural Design. 3 credits. Prerequisite: 306. Basic concepts in structural optimization. Mathematical programming methods including unconstrained minimization, multidimensional minimization and constrained minimization.

EN-85-12

Construction Technology

Revise Bachelor of Construction Technology as follows:

Delete from Technical Electives:

3370:101	Introductory Physical Geology	4
5550:211	First Aid	2

- Add 4980:467 Special Projects. 1-3 credits. Prerequisite: Senior standing and permission of instructor. Directed individual or group research or study in student's field of interest. Topic subject to approval by advisor.

EN-85-13

Biomedical Engineering

- Add 4800:611 Biometry. 3 credits. Statistics and experimental design topics for the biomedical and biomedical engineering disciplines including: distributions, hypothesis testing and estimation, ANOVA, probit analysis and nonparametric statistics.

EN-85-16

Polymer Engineering

- Add 4700:642 Engineering Aspects of Polymer Colloids. 2 credits. Thermodynamic properties of polymer colloids, sol-gel transformation, rheology of polymer solutions, gels, suspensions and emulsions, phase separation, applications to paints and plastisols technology.

EN-85-17

Mechanical Engineering

- Add 4600:412 Fundamentals of Flight. 3 credits. Prerequisite: 4600:310 or equivalent or permission of instructor. Introduction to basic aerodynamics, airplane performance, stability and control, astronautics and propulsion. Design considerations are emphasized.

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CURRICULUM CHANGES

Add 4600:432 Vehicle Dynamics. 3 credits. Application of dynamic systems analysis techniques to road vehicles. Newtonian and Lagrangian methods. Tire/road interface. Ride characteristics, handling and stability. Digital simulation.

EN-85-18

Mechanical Engineering

Add 4600:624 Fundamental of Fracture Mechanics. 3 credits. Prerequisite: 622 or permission of instructor. Methods of stress analysis in elastic media containing holes and cracks. Theories of brittle fracture. Dynamic crack propagation. Fatigue fractures. Finite element approaches to fracture mechanics.

4600:660 Engineering Analysis. 3 credits. Prerequisite: BS in Engineering. Study of analysis techniques as applied to specific engineering problems. Applications include beam deflections, acoustics, heat conduction and hydrodynamic stability.

4600:611 Computational Fluid Mechanics. 3 credits. Prerequisite: 610 or permission of instructor. Study of numerical methods in fluids; numerical errors and stability, finite differencing, nonlinear convection terms, poisson equations, boundary conditions, turbulence, spectral and finite element techniques.

4600:532 Vehicle Dynamics. 3 credits. Application of dynamic systems analysis technique to road vehicles. Newtonian and Lagrangian methods. Tire/road interface. Ride characteristics, handling, and stability. Digital simulation.

4600:512 Fundamentals of Flight. 3 credits. Prerequisite: 310 or equivalent or permission of instructor. Introduction to basic aerodynamics, airplane performance, stability and control, astronautics and propulsion. Design considerations are emphasized.

4600:645 Process Identification and Computer Control. 3 credits. Prerequisite: 440 or equivalent. Obtaining mathematical models of processes from noisy observations. Methods of digital control design. Case studies on computer control of selected processes.

EN-85-19

Biomedical Engineering

Add 4800:409 Introduction to Biomedical Engineering Research. 3 credits. Application of engineering principles to local area medical research. Includes biomaterials, orthopedics, artificial organs, biostereometrics, biometrics, biological signal and image analysis, biomechanics, and computers in medicine.

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CURRICULUM CHANGES

FINE AND APPLIED ARTS

FA-85-02

Communication

Add 7600:487/587 The American Film Industry. 3 credits. History, current operation, and possible futures of the American film industry. Business and industrial aspects of film considered in relation to technological and social change.

FA-85-03

Home Economics and Family Ecology

Add minors in the following areas:

Apparel Design and Construction

7400:121	Textiles	3
7400:123	Clothing Construction	3
7400:305	Advanced Construction & Tailoring	3
7400:311	Contemporary Needle Arts	3
7400:449	Flat Pattern Design	3
7400:---	Elective in Clothing and Textiles Area	3
		<u>18</u>

Fashion

7400:121	Textiles	3
7400:317	Historic Costume	3
7400:331	History of Textiles and Furnishings	3
7400:339	The Fashion Industry	3
7400:419	Clothing Communication	3
7400:---	Elective in Clothing and Textiles Area	3
		<u>18</u>

Interior Design

See Art Department Listing

Clinical Nutrition

7400:133	Nutrition Fundamentals	3
7400:316	Science of Nutrition	4*
7400:328	Introduction to Nutrition in Medical Science	4
7400:424	Nutrition in the Life Cycle	3
7400:428	Nutrition in Medical Sciences	5
		<u>19</u>

*Course has prerequisites

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CURRICULUM CHANGES

Community Nutrition

7400:133	Nutrition Fundamentals	3
7400:316	Science of Nutrition	4*
7400:380	Introduction to Community Nutrition	1
7400:424	Nutrition in the Life Cycle	3
7400:480	Community Nutrition I	3
7400:482	Community Nutrition II	3
7400:485	Practicum in Dietetics	1
		<u>18</u>

Food Systems Administration

2280:236	Food and Beverage Cost Control	3
6500:341	Personnel Management	3*
7400:133	Nutrition Fundamentals	3
7400:245	Basic Food Theory and Applications	5*
7400:313	Introduction to Food Systems Mgmt	3
7400:416	Quantity Food Preparation	3
		<u>20</u>

Food Science

7400:133	Nutrition Fundamentals	3
7400:245	Basic Food Theory and Applications	5*
7400:403	Advanced Food Preparation	3
7400:420	Experimental Foods	4
7400:485	Sensory Evaluation of Food (or other appropriate seminar)	3
		<u>18</u>

*Course has prerequisites

FA-85-05
Art

Add 7100:289 Architectural Presentations II. 3 credits. Prerequisite: 282. Study and studio practice in architectural graphics and methods of architectural delineation. Emphasis on color medium including felt tip pen, color pencil, ink and watercolor.

7100:496 Art Internship/Professional Experience. 1-12 credits. Repeatable for credit. No more than 12 credits of internship may apply toward the elective requirement for completion of any Art Department major. Prerequisites: Junior level in major program and permission of Internship Director. In-depth professional training affording the intern on-the-job experience in selected areas of specialization.

Number 7100:232 Instrument Drawing. TO
7100:132 Instrument Drawing.

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	7100:389	<u>Corporate Identity and Graphic Systems.</u> <u>TO</u>
	7100:482	<u>Corporate Identity and Graphic Systems.</u>
Prerequi- sites	7100:284	<u>Introduction to Graphic Design.</u> <u>TO</u> Prerequisite: 131.
	7100:286	<u>Commercial Design Theory.</u> <u>TO</u> Prerequisites: 284 and 132.
	7100:388	<u>Advertising Production and Design.</u> <u>TO</u> Prerequisites: 387 and either 2240:222 or 7100:375.
Number	7100:486	<u>Packaging Design.</u> <u>TO</u>
	7100:386	<u>Packaging Design.</u>
Title, Descrip- tion	7100:282	<u>Architectural Presentations.</u> <u>TO</u>
	7100:282	<u>Architectural Presentations I.</u> 3 credits. Prerequisites: 131, 144, or 286, or 2240:124. Study and studio practice in architectural design and presentation methods, both residential and commercial, and the development of graphic presentations of interior and exterior concepts. Emphasis on beginning drawing and rendering in pencil and pen and ink.

FA-85-06
Communication

Title, Descrip- tion	7600:228	<u>Intercollegiate Forensics.</u> <u>TO</u>
	7600:228	<u>Communication Experiences.</u> 1 credit. (May be repeated for a total of 8 credits.) Prerequisite: Permission of instructor; required audition and/or interview. Participation in selected communication activities on campus, such as forensics, WAUP-FM, Buchtelite, Tel-Buch, Television Center.
Title, Descrip- tion Prerequi- sites	7600:439	<u>Mass Media-Communication Practicum.</u> <u>TO</u>
	7600:439	<u>Independent Study.</u> 1-12 credits. (May be repeated for a total of 12 credits.) Prerequisite: Permission of faculty. Directed independent readings, research, projects, and productions. Written proposal must be submitted before permission is granted. Appropriate documentation of work required.
Number	7600:380	<u>Mass Media Communication Internship.</u> <u>TO</u>
	7600:480	<u>Mass Media Communication Internship.</u>

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CURRICULUM CHANGES

FA-85-08

Music, Theatre and Dance

Add 7800:450/550 Performance Projects. 3 credits. (May be repeated to 6.) Prerequisite: 172 or equivalent experience. Permission of instructor. Preparation and presentation of programs and projects for the public schools, hospitals, nursing homes and other community and campus organizations.

FA-85-09

Home Economics and Family Ecology

Add the following minors:

Family Development
 (Prerequisites must be honored)

7400:201	Relational Patterns in Marriage and Family	3
7400:265	Child Development	3

The remaining 12 credits may be selected from the following:

7400:255	Fatherhood: The Parent Role	2
7400:360*	Parent-Child Relations	2
7400:361	Home Management Theory	3
7400:390	Family Relationships in Middle and Later Years	2
7400:401	Family Life Patterns in Economically Deprived Homes	2
7400:404*	Adolescence in the Family Context	3
7400:440	Family Crisis	3
7400:442*	Human Sexuality	3
7400:445	Public Policy and the American Family	3
7400:496*	Parenting Skills	3
7400:485	Seminar Family Communication	3

*Prerequisites required

Child Development
 (Prerequisites must be honored)

7400:201	Relational Patterns in Marriage and Family	3
7400:265	Child Development	3

The remaining 12 credits may be selected from the following:

7400:132	Early Childhood Nutrition	2
7400:255	Fatherhood: The Parental Role	2
7400:275*	Play and Creative Expression Activities	4
7400:290*	Administration of Child Care Centers	3
7400:360*	Parent-Child Relations	2
7400:401	Family Life Patterns in Economically Deprived Homes	2

*Prerequisites required

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CURRICULUM CHANGES

7400:404*	Adolescents in the Family Context	3
7400:460	Organization and Supervision of Child Care Centers	3
7400:496*	Parenting Skills	3

*Prerequisites required

FA-85-10

Home Economics and Family Ecology

Add 7400:448/548 Before and After School Child Care. 2 credits. Study of the development, implementation, and evaluation of school-age child care programs for before and after school and vacation periods.

FA-85-13

Home Economics and Family Ecology

Credits 7400:360 Parent-Child Relations. TO 3 credits.

FA-85-14

Home Economics and Family Ecology

Add 7400:302 Consumers of Services. 3 credits. A study of the services sector of the economy. Emphasis is on a framework for studying all service providers and in developing criteria for evaluating service providers.

COLLEGE OF NURSING

NU-85-02 EFFECTIVE SUMMER I, 1985

Add Time Limit for Microbiology. The Student Admission, Progression and Graduation Committee recommend to the College of Nursing Faculty Council that microbiology, along with anatomy and physiology, have a ten year time limit. This recommendation was supported by a unanimous vote in the College's Faculty Council. This policy will be in effect for both generic and registered nurse students.

NU-85-04 EFFECTIVE SUMMER I, 1985

Change Continuation in the College of Nursing Baccalaureate Program. The student must achieve a gpa of 2.30 or higher on a 4.0 scale in the nursing major. A student receiving a "D+" to an "F" in any nursing course will be required to repeat the course or dismissal will occur. A repeat of the course can only occur once.

A student receiving less than 2.3 may have only one probation period prior to be dismissed from the College of Nursing

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, March 7, 1985

CURRICULUM CHANGES

NU-85-05 EFFECTIVE SUMMER I, 1985

Change credits in the following nursing courses and bypass credits in RN/BSN sequence.

1. 8200:405 Health Maintenance Nursing. 6 credits. TO 5 credits.
2. 8200:415 Diminished Health Nursing. 5 credits. TO 6 credits.
3. Bypass credits from 22 TO 24.

ADDENDUM

COLLEGE OF FINE AND APPLIED ARTS

FA-85-12

Music, Theatre and Dance

Add Minor in Jazz Studies

7500:210	Jazz Improvisation I	2
7500:211	Jazz Improvisation II	2
7500:212	Music Industry Survey	2
7500:307	Tech of Stage Band Per and Dir	2
7500:308	Jazz History and Literature	3
7500:497*	Elective in Jazz	2
7510:115	Jazz Ensemble	4
7520:---	Applied Jazz Study	8
		<u>25</u> credits

*Elective to be determined in consultation with the Director of Jazz Studies

FA-85-18

Music, Theatre and Dance

Add Minor in Theatre Arts (requires a minimum of 24 credits)

7800:100	Introduction to Theatre	3
7800:102	Introduction to Technical Theatre	3

Thirteen additional credits are required: 3 credits from each of the following areas, four credits of theatre electives, plus 2 credits of practical theatre experience.

Design/Technology

7800:106	Introduction to Stage Design	3
7800:265	Basic Stagecraft I	3
7800:464	Stage Lighting	3

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CURRICULUM CHANGES

Acting/Directing

7800:171	Acting I	3
7800:271	Directing I	3

Musical Theatre

7800:421	Music Theatre Production	3
7800:475	Acting for the Musical Theatre	3

History/Dramatic Literature

7800:370	The American Theatre	3
7800:467	Contemporary Theatre Styles	3

Theatre Production/Performance

7810:---	Production/Performance	1
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Theatre Electives

Subtotal	18
Total	24

FA-85-20

Music, Theatre and Dance

Add 7500:609 Pedagogy of Jazz Improvisation. 3 credits. A detailed study of the methods and materials as they relate to the teaching of jazz improvisation.

COLLEGE OF ENGINEERING

EN-85-22

Add 4700:722 Advanced Modelling of Polymer Processing. 2 credits. Prerequisite: Permission of instructor. Modelling of processing operations including extrusion molding, fiber and film processing, computer aided design.

EN-85-23

Polymer Engineering

Add 4700:745 Liquid Crystals. 2 credits. Prerequisite: Permission of instructor. Structure of low molecular weight and polymeric liquid crystals, characterization, physical properties including optical properties, phase transitions, structure-property relationships, processing of polymeric species.

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CURRICULUM CHANGES

EN-85-24
 Polymer Engineering

Add	4700:741	<u>Phase Transformations in Polymer Systems.</u> 2 credits. <u>Prerequisite:</u> Permission of Instructor. Thermodynamics, nucleation and kinetics of growth of new phases, spinodal decomposition and related mechanisms, crystallization, crystal-crystal transformation, stress induced crystallization.
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COMMUNITY AND TECHNICAL COLLEGE

CT-85-03
 Associate Studies

Credits	2020:251	<u>Work Relationships.</u> <u>TO</u> 3 credits.
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CT-85-09
 Business Technology

Title	2420:117	<u>Small Business Management I.</u> <u>TO</u> <u>Small Business Development.</u>
	2420:118	<u>Small Business Management II.</u> <u>TO</u> <u>Small Business Management and Operations.</u>
	2420:227	<u>Entrepreneurship.</u> <u>TO</u> <u>Entrepreneurship Projects</u>

CT-85-11
 Business Technology

Add minors in the following areas:

Hotel/Motel Management

2280:150	Front Office Procedures	3
2280:152	Maintenance and Engineering Management	3
2280:153	Principles of Fire Protection and Life Safety	3
2280:240	System Management and Personnel	3
2280:256	Hospitality Law	3
2280:255	Hotel/Motel Sales Promotion	3
2280:254	Hotel/Motel Housing Management	3
		<u>21</u>

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, March 7, 1985

CURRICULUM CHANGES

Culinary Arts

2280:121	Fundamentals of Food Preparation I	4
2280:160	Wine and Beverage Service	2
2280:122	Fundamentals of Food Preparation II	4
2280:123	Meat Technology	2
2280:232	Dining Room Service and Training	2
2280:261	Baking and Classical Desserts	3
2280:262	Classical Cuisine	3
2280:263	International Foods	2
		<u>22</u>

CT-85-13

Engineering and Science

Add to the list of Chemical Technology Electives as follows:

Industrial Emphasis

3460:201	Introduction to Fortran Programming	2
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Rubber and Plastics Emphasis

3940:416	Extrusion and Molding	3
3940:417	Adhesives and Coating	2
3940:418	Composites, Cellular Structures and Tire Tech	4

Geology Emphasis

3100:104	Ecology and Biological Resources Field Lab	1
3370:201	Exercises in Environmental Geology	1
4100:201	Energy and Environment	2

Forensic Emphasis

2220:102	Criminal Law for Police	3
3460:127	Computers in Today's World	3
2220:290	Special Topics: Criminal Justice	1-4
3460:201-5	Introduction to Programming Languages	2 each

CT-85-14

Engineering and Science

Drop	2840:103	<u>Chemical Calculations</u> . 2 credits.
Add	2840:105	<u>Chemical Calculations I</u> . 1 credit. Corequisite: 101 or permission of instructor. Calculations as applied to introductory chemistry courses. Topics include unit conversions, percentages, graphs, significant figures, moles. Suitable as a refresher course.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, March 7, 1985

CURRICULUM CHANGES

Add 2840:106 Chemical Calculations II. 1 credit. Corequisite: 102 or permission of instructor. Continuation of calculations review for introductory chemistry. Chemical equilibria, concentrations, pH, solubility products, redox reactions, calorimetry.

CT-85-15
Public Service

Add Educational Technology Program

2540:140	Typing for Non-Secretarial Majors	2
	Electives	1

Delete Educational Technology Program

2540:150	Beginning Typewriting	3
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BUCHTEL COLLEGE OF ARTS AND SCIENCES

AS-85-27
Urban Studies

Title Description	3980:630	<u>Planning Concepts and Methods.</u> 3 credits. <u>TO Introduction to Planning Practice and Theory.</u> 3 credits. Introduction to the history, theories and forms of urban planning.
Drop	3980:633	<u>Planning Theory and Innovation.</u> 3 credits.
	3980:634	<u>Urban Design Planning.</u> 3 credits.
Number Description	3980:635 3980:637	<u>Field Methods in Urban and Regional Planning.</u> <u>TO Field Methods in Urban and Regional Planning.</u> 3 credits. Prerequisites: 630. Taught jointly with 638 to provide students with extensive experience in applying the quantitative methods and analytic procedures of urban planning to actual public policy issues.
Add	3980:638	<u>Field Methods in Urban and Regional Planning/Lab.</u> 3 credits. Prerequisites: 630. This course is taught jointly with 637 to provide students with extensive experience in applying methods and analytic procedures to urban planning to actual public policy issues.

AS-85-28
Urban Studies

Add 3980:672 Alternative Urban Futures. 3 credits. Overview of topics and issues associated with alternative urban futures and their implications for planning and public policy in urban communities.

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CURRICULUM CHANGES

Title, Description	3980:670 3980:670	<u>Planning Research. TO Research for Futures Planning.</u> Prerequisites: 600 and 601 and completion of eight credits of core curriculum in urban studies. An overview of the techniques associated with the field of futures research and their application to long term urban planning.
<u>AS-85-15</u>		
<u>Biology</u>		
Drop	3100:103 3100:332 3100:438/538 3100:485/585 3100:667	<u>Introduction to Microbiology.</u> 3 credits <u>Microbiology.</u> 4 credits <u>Hematology.</u> 4 credits. <u>Laboratory Animal Management.</u> 3 credits <u>Experimental Embryology.</u> 3 credits.
Prerequi-	3100:431/531	<u>Bacterial Physiology.</u> 3 credits. <u>TO</u> Prerequisite: 331 and 3150:202.
	3100:433/533	<u>Pathogenic Bacteriology.</u> 4 credits. <u>TO</u> Prerequisite: 331 and pre- or co-requisite 437.
	3100:435/535	<u>Virology.</u> 4 credits. <u>TO</u> Prerequisite: 331.
	3100:437/537	<u>Immunology.</u> 4 credits. <u>TO</u> Prerequisite: 331; recommended 433.
Title	3100:105	<u>Ecology and Biological Resources.</u> 2 credits. <u>TO</u> <u>Introduction to Ecology.</u>
	3100:424/524	<u>Limnology.</u> 3 credits. <u>TO</u> <u>Freshwater Ecology.</u>
Number, Credits	3100:356 3100:456/556	<u>Ornithology.</u> 3 credits. <u>TO</u> <u>Ornithology.</u> 4 credits.
Add	3100:429/529	<u>Biology of Behavior Laboratory.</u> 2 credits. Pre- or co-requisite: 428/528 and permission of instructor. Individualized, directed study to provide the student with firsthand experience in observing, describing and interpreting animal behavior.
	3100:450/550	<u>Animal Pests and Vectors.</u> 3 credits. Prerequisite: 217 or permission of instructor. Study of the biology and control of disease vectors and urban pests. Laboratory.
	3100:432/532	<u>Advanced General Bacteriology.</u> 4 credits. Prerequisite: 331. Study of the groups of bacteria involved in the production of food or chemicals, those found in soil and water, and those involved in microbial biogeochemical cycles. Laboratory.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, March 7, 1985CURRICULUM CHANGES

Add 3110:695 Special Topics: Biology/NEOUCOM. 1-6 credits.
Prerequisite: Permission of instructor. Advanced topics in medical education covering areas not otherwise available. May be repeated with a change in topic.

AS-85-17
Economics

Number, 3250:450 Comparative Economic System. 3 credits. TO
Description 3250:450/550 Comparative Economic System. 3 credits. Prerequisite: 201,2 or permission of instructor. Systems of economic organization, ranging from the theoretical extreme of a perfectly free market economy to the socialist varieties. Historical evolution of economic systems covering problems in theory and practice.

Prerequisites 3250:380 Money and Banking. 3 credits. TO
Prerequisite: 201

3250:420 Mathematical Economics I. 3 credits. TO Prerequisite: 201, 3450:147,148,or 149 or permission of instructor.

3250:421 Mathematical Economics II. 3 credits. TO Prerequisite: 420 or permission of instructor.

3250:432 The Economics and Practice of Collective Bargaining. 3 credits. TO Prerequisite: 202.

3250:627 Econometrics. 3 credits. TO Prerequisite: 626 or equivalent.

Number, 3250:431/531 Labor and the Government. 3 credits. TO
Prerequisite 3250:431 Labor and the Government. 3 credits. Prerequisite: 330.

FINE AND APPLIED ARTS

FA-85-17
Music, Theatre and Dance

Title, 7800:100 Introduction to Theatre. TO
Description 7800:100 Experiencing Theatre. 3 credits. Experience the theatre as a live, dynamic art form through an exposure to and participation in production and performance.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, March 7, 1985

CURRICULUM CHANGES

ARTS AND SCIENCES

AS-85-29

Urban Studies

Title, Number	3980:701 3980:702	<u>Urban Thought. TO</u> <u>Urban Policy: The Historical Perspective.</u>
	3980:702 3980:704	<u>Bureaucracy and the Public Interest. TO</u> <u>Bureaucracy and Urban Constituencies.</u>
	3980:704 3980:703	<u>Implementation of Public Policy. TO</u> <u>Systems and Processes of Policy Development.</u>
	3980:705 3980:707	<u>Planning Strategies and Evaluation of Plans. TO</u> <u>Urban Planning and Management Strategies.</u>
Number	3980:703 3980:706	<u>Program Evaluation. TO</u> <u>Program Evaluation.</u>
Title, Descrip-	3980:700 3980:700	<u>Advanced Research Methods. TO</u> <u>Advanced Research Methods I. Prerequisite: Master's level satisfied or permission. Introduction to statistical techniques and methodologies in doctoral and postdoctoral research. Emphasis on conceptual and mathematical interrelationships.</u>
Add	3980:701	<u>Advanced Research Methods II. 3 credits. Prerequisite: 700 or equivalent. Continuation of 700. Emphasis placed upon conceptual and mathematical interrelationships of multivariate statistical techniques as well as application of these techniques through computer analysis of urban data sets.</u>
	3980:705	<u>Economics of Urban Policy. 3 credits. Prerequisite: Master's level knowledge of macroeconomics and microeconomics or special permission. Use of research tools of economic analysis in seminar format to examine options available to urban policy makers in operation of public services and economic development of cities.</u>

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 3/7/85, continued

PROJECTS AWARDED BY THE RESEARCH (FACULTY PROJECTS) COMMITTEE 1984-85, continued
(Awarded March 5, 1985)

Dr. Jerry Stinner, Assistant Professor of Biology "Effects of temperature and acidity on oxygen binding by hemoglobin in the snake Coluber constructor".	\$ 2,900
Dr. G. Edwin Wilson, Jr., Professor of Chemistry "Asymmetrically Substituted Vesicle Probes for Macrophage MDP Receptors".	\$ 1,200
Dr. Robert L. Zangrando, Professor of History "A Quest for Justice: Walter F. White of the NAACP and the Emergence of the Twentieth-Century Civil Rights Movement".	\$ 2,974
	<hr/>
	\$30,873

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 3/7/85, continued

REPORT OF THE UNIVERSITY OF AKRON REPRESENTATIVE TO THE FACULTY ADVISORY COMMITTEE TO THE CHANCELLOR OF THE OHIO BOARD OF REGENTS—Dr. William S. Fleming.

The Faculty Advisory Committee to the Chancellor of the Ohio Board of Regents met in Columbus on Tuesday, March 5, 1985. Chancellor Coulter reported on the status of the Challenge grants program. Each of Ohio's public universities and two-year colleges had been allowed up to seven proposals during the 1984 segment of the program. In all, 131 proposals were submitted for consideration. Thirty-nine of those went into the semi-final stage, and twenty-two have been approved. The judging committee is made up of people from various academic disciplines and business interests, and come from both within and outside Ohio.

On Wednesday, March 6, 1985, higher education needs will be argued before the House budget committee by university presidents, and on Thursday, March 7, presidents of two-year colleges will present their testimony. Chancellor Coulter anticipates that the budget committee's recommendations will go to the floor of the House by mid-April. By the end of May the Senate committee will report out its recommendations, after which a joint committee will attempt to iron out the differences. While acknowledging that the differences between Governor Celeste's tax relief views and those of the Republican-controlled Senate are "enormous", the Chancellor nevertheless believes that higher education is enjoying a higher interest in the legislature than at any time in recent years.

The Academic and the Productivity Improvement Challenge guidelines for the next biennium (1985-86) are in their final draft stage and should be ready for promulgation by late April. Under the rules, each college and university will receive a subsidy enhancement grant equal to one per cent of the formula instructional subsidy earned each year, or \$50,000, whichever is greater. Each institution will then select those programs to be advanced by at least ten per cent each from this enhancement fund. These enhancements will be supported for a period of at least six years from inception, with progress reports to be submitted each year. (For more details see the "Final Draft: Academic Challenge Program" and "Final Draft: Productivity Improvement Challenge Program", both dated January 29, 1985.)

Again, Chancellor Coulter emphasized that all academic departments and disciplines are eligible for funding under the Challenge Programs. The judges look at proposals for academic soundness and for evidence of program effectiveness.

Finally, Representative Stinziano has reintroduced his bill to place student members on boards of trustees, but the Chancellor senses little real enthusiasm for the idea either among college and university administrators or in the Assembly itself.

Respectfully submitted,

William S. Fleming

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 3/7/85, continued

EMPLOYEE ASSISTANCE PROGRAM
(Circulated to University Council March 1985)

Some individuals when faced with difficult or stressful times, experience behavioral and/or emotional problems which affect not only themselves and their family's personal life, but may also cause job performance deterioration and ineffectiveness. The University of Akron is willing to provide service to the faculty and staff which will assist the employees and family members with such problems. Family problems, emotional problems, and alcoholism are examples of problems which can, with early intervention, be successfully treated or resolved.

The Ohio Recovery Council, created by Governor Celeste in September 1983, had as its chief purpose to provide an Employee Assistance Program (EAP) for all state employees. A state task force on EAP's in higher education in Ohio has been appointed whose charge is to encourage state universities to develop their own programs since they are not included in the mandated state-wide program.

The report of the Employee Assistance Program Subcommittee of the Ohio Recovery Council states the

"primary purpose of the state EAP is to ensure that all employees with problems or illnesses will receive the same consideration and opportunity for treatment that are currently extended to employees having other illnesses. Expenses incurred for treatment and hospitalization will be provided under the group health insurance programs wherever possible. Leave will be authorized for problem assessment, motivational sessions, individual and group counseling appointments and for treatment at a community treatment facility . . .

Confidentiality of records is mandated by federal regulations for drug and alcohol problems and will be maintained at all times within the employee assistance program. Information concerning an individual's participation in the program does not enter his or her personnel file. An employee seeking and/or accepting assistance to alleviate an alcohol, drug, behavioral, or emotional problem will not jeopardize his or her job security or consideration for job advancement. The decision to use the services of the state EAP is a personal one for the individual."

Following the lead of the Ohio Recovery Council, the purpose of the faculty/staff assistance program of The University of Akron is to make aid available to individuals before career or job is detrimentally affected and to facilitate the individual's personal decision to seek professional help. The program is motivated by concern for the affected individual, his or her career, and family. The program would at no time supercede any existing university policy. Participation or nonparticipation on this program cannot be cited as a cause for dismissal or nonreappointment.

The EAP program to be established for the staff and faculty of the University will be an external service. An individual in need of services must seek aid off campus; this will decrease the risk of co-workers' knowledge of assistance. The external agency will provide two mailings to remind the employee the services are available if needed. A second reason for the home mailings is to provide family members of University faculty and staff with information of service. Sometimes the University employee may need help and his or her family will not want to advise University personnel that the need exists. The mailings are intended to provide this added confidentiality if the individual or family chooses. The agency may provide informational programs for all faculty and staff.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 3/7/85, continued

EMPLOYEE ASSISTANCE PROGRAM (continued)

Confidentiality of the EAP will be maintained at all times. Employees' names and condition will not be forwarded to any University personnel without the written permission of the individual. The only records submitted to the University from the agency providing service will be a head count, no names. The agency would be paid by flat fee; no invoice, record, or accounting of services rendered to named individual would be provided to the University. If hospitalization or long-term care is prescribed, the individual must decide to release information to the University for hospitalization or long-term treatment.

Confidentiality is further enhanced by the following points:

1. Medical records of University employees are protected and not open for inspection under University policy and existing laws (such as Sunshine and Privacy Laws). For this reason medical information is not considered part of, or even entered into an employee's personnel file.
2. Physicians are permitted under existing policy to report diagnoses by code to the insurance carrier; no University employees whatsoever, including benefits coordinator or personnel office staff, have access to this code, the confidentiality of which is governed by regulations and standards which the carrier is independently obligated to observe.

Many of the faculty and staff have faithfully contributed to the United Fund every year. Those contributions have aided many organizations to provide services to the citizens of Summit County including faculty and staff. These United Fund Agencies charge on a sliding scale. Faculty/staff would be required to pay these fees based upon their salaries. The EAP agency will provide the services to the faculty/staff for no cost. The EAP is an additional benefit.

The University of Akron is an equal education and employment institution operating under nondiscrimination provisions of Titles VI, VII, IX and Executive order 11246 Vocational Rehabilitation Act Section 504, and Vietnam Era Veteran's Readjustment Act as related to admissions, treatment of student and employment practices. NO PERSON IN THE UNITED STATES SHALL, ON THE BASIS OF RACE, COLOR, SEX OR NATIONAL ORIGIN, BE EXCLUDED FROM PARTICIPATION IN, BE DENIED THE BENEFITS OF, OR BE SUBJECTED TO DISCRIMINATION UNDER ANY EDUCATIONAL PROGRAM OR ACTIVITY RECEIVING FEDERAL FINANCIAL ASSISTANCE. THIS NON-DISCRIMINATION POLICY APPLIES TO ALL STUDENTS, FACULTY, STAFF, EMPLOYEES, AND APPLICANTS.

The agency which would provide the services for the faculty/staff of The University of Akron would also be an EEOC institution. It would also be bound to provide services in a non-discriminatory way.

The cost of this program to the University would be \$20,000 annually.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 3/7/85, continued

EMPLOYEE ASSISTANCE PROGRAM (continued)

RECOMMENDATIONS FOR A FACULTY/STAFF ASSISTANCE SERVICE
AT THE UNIVERSITY OF AKRON

The program should be externalized by contracting with an already established professional agency where the resources for an ongoing educational program, including promotional materials, already exist. Equally important is the probability that participation would be enhanced because the actual or perceived threats to confidentiality of an internal program would not exist.

SERVICES PROVIDED BY AGENCY

1. Program promotion/operation which includes:
 - A. Assistance in all pre-implementation activities including descriptive presentations, and selection and design of educational materials.
 - B. Two mailings per academic year to each employee, both of which are to be mailed through U.S. Postal Service to the home.
 - C. Annual on-campus informational programs for all faculty and staff.
 - D. Quarterly meetings with the Director of Health Services and his designees for purposes of program evaluation.

 2. Evaluation and treatment services which include:
 - A. Personal and individual evaluation, treatment, referral and after-care services to all full-time faculty and staff and their dependents who are experiencing difficulties attributable to the use of alcohol, other drugs, other behavioral/medical problems, or job-related problems.
 - B. Statistical program data and reports to the University, sufficient for purposes of overall program evaluation. The data will be reported on a group basis so that individuals will not be identified.
 - C. All evaluative and treatment services will be provided by or under the direct supervision of a licensed psychologist or physician. All counselors involved in this program will have State of Ohio Certified Alcoholism Counselor Certificates in addition to other relevant qualifications.
 - D. Adequate off-campus facilities in which the above described services can be rendered.
-