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AU Chronicle

a report to the faculty of
the university of akron



1972-73, No. 4

(53 pages)

January 2, 1973

GREETINGS FROM THE PRESIDENT

"As this issue of the AU Chronicle reaches your desk, we are beginning the winter quarter of the 1972-73 academic year. Enrollment appears to have held up and we are ready to resume the teaching/learning process. I trust that each of you had pleasant and restful holidays and that you are prepared and anxious to continue your important work in the classroom, the laboratory and the community.

"The year to date has been most productive in every sense of the word and I know that this same commitment on the part of the entire University continues. Welcome back!"

A handwritten signature, likely of the University President, in dark ink.

FOUNDERS DAY—Tuesday, January 16, 1973

Dr. Harold Hodgkinson, Professor of Higher Education, University of California at Berkeley, will address the annual Faculty Educational Conference in John S. Knight Auditorium at 2 p. m. Dr. G. W. Knepper will preside at a brief introductory meeting which will include the traditional Wreath Ceremony. Following Dr. Hodgkinson's talk, there will be an opportunity for open faculty discussion. Classes will meet from 8 a. m. through 11:50 a. m., and begin again at 4 p. m. The annual faculty luncheon will be served in the Hilltop Room of the Gardner Student Center from 11:30 a. m. to 1 p. m., at a cost of \$1.

UNIVERSITY COUNCIL

Meetings of Council

The following are scheduled on Thursday at 3 p. m. in Business Administration-Law 307:

January 4, for the sole purpose of considering the Statement of Student Rights and Responsibilities.

January 18, regular meeting with special attention to the ad hoc committee report on General Studies.

January 25, for the sole purpose of considering the report of the ad hoc committee on the Faculty Manual.

Personnel Changes

Mr. Timothy Davis replaces Mr. Dave Dial, as a representative of Associated Student Government on University Council.

Mr. Joseph Lentini replaces Mr. Harold Edwards who had resigned from the Faculty Well-Being, Rights and Responsibilities Committee of University Council.

IN MEMORIAM

Mr. Robert Kovach, Professor of Law, passed away unexpectedly in Tampa, Florida, on December 19, 1972. Mr. Kovach joined our faculty in 1963, but had been on a leave of absence for the 1971-72 and 1972-73 academic years. The University extends its deepest sympathy to Mrs. Kovach and the family in this bereavement which we all share.

MINUTES OF UNIVERSITY COUNCIL MEETING OF DECEMBER 7, 1972

The regular meeting of the University Council was called to order by the Chairman, Vice President Noel Leathers, at 3:05 p.m. on Thursday, December 7, 1972, in Business Administration-Law Building 307.

Fifty-three of the 64 members of Council were present. Those who were absent with notice were Dr. W. Crabtree, Dean R. L. Hansford, Dean R. Oetjen, Dr. C. Poston, Dr. L. Roemer, and Dr. D. Van Fleet. Others absent were Dr. P. Hayes, Mr. J. Huggins, Mr. J. Hunt, Mr. E. Kerr, and Mr. L. Vuillemin.

Before proceeding with the formal agenda Dr. Leathers introduced two new members of the Council: Mr. Timothy Davis of the Associated Student Government who replaces Mr. Dave Dial, and Mr. George Gilson, the newly elected president of the Graduate Student Council.

The Chairman then asked if there were any corrections or additions to the minutes of the meeting of University Council of November 16, 1972, as printed in the December 1, 1972 issue of the AU Chronicle.

Dr. Anderson asked to expand the statements attributed to him on page 5, by adding the following after the words "delegated authority" at the end of the first line in the third paragraph: "and whether there was not a distinct difference between periodic review and revoking of decisions flowing from such delegated authority." He also wished to add the following sentence to conclude the paragraph: "He admitted that this was a technical issue and declined further comment."

Mr. Briner reminded the Secretary that in the listing of those absent on page 2 his name should not have been included since he had simply arrived too late to sign the roster when it had been circulated at the meeting.

Dr. Gerlach noted the typographical error on page 2 at the bottom, at the end of paragraph No. 1, which have read "1642" instead of "1962".

Dean Barker moved that the minutes as printed and above corrected be approved. Dr. Hittle seconded the motion, which carried.

As the next item on the agenda, Dr. Leathers called upon Dr. Guzzetta for the Remarks of the President. He stated that at the request of a "Council man", he would keep his comments brief! First, there was to be a meeting of the Inter-University Council (state university presidents) in Columbus Monday morning, followed by an afternoon meeting with Mr. Coulter, Acting Chancellor of the Ohio Board of Regents. The primary discussion will be on the state financial situation and the budget. Dr. Guzzetta said it was not yet clear what action would be taken by the Governor and the Legislature. Although someone [Dr. Fatemi] had reported at the last meeting of University Council a probable 10 percent increase in the allocations for the next biennium, the most optimistic figure he had heard was 3 percent "maybe" for each year of the biennium. When the Regents hold their regular monthly meeting on December 15, the joint doctoral program (Akron with Kent State) will be on the agenda.

Second, the President said that the Board of Trustees will meet on December 27 but a meeting of the Educational Policy Committee of the Board will be held at noon on December 13 for a special purpose. He has invited two faculty members—Drs. Gerlach and Merrix—to speak on tenure at this informal session. Dr. Guzzetta said he wants to continue the practice periodically of presenting faculty points of view to Board committee members, and he will plan a later meeting on another topic.

UNIVERSITY COUNCIL MINUTES, 12/7/72, continued

He also told the Council that he had called the Board's attention to the possible recommendations for Faculty Manual changes under consideration by Council at this time and that these would ultimately be forwarded to the Board for action after University Council makes its recommendations for such changes to the Board. Dr. Guzzetta said the Educational Policy Committee of the Board would undoubtedly invite representatives of the faculty to have meetings with them on proposed changes prior to the final Board action. In the meantime he will ask the Board to adopt a resolution stating the procedures to be followed to avoid any misunderstanding about the forwarding of recommendations from University Council to the Educational Policy Committee and then to the Board of Trustees for official action.

Finally, the President referred to the progress of MEDCO (the consortium of The University of Akron, Kent State University and Youngstown University) in preparing its proposal for a medical school in northeastern Ohio to be presented to the Ohio General Assembly by December 31, 1972. This has been quite a task, but there have been an outstanding medical panel and advisory committees, embracing some 65 persons in all. The final report will fall short of involvement in financial matters, which will be dependent upon the money available and the decision of the Legislature. Since the proposal envisions a consortium approach—unique in the country—plus a six-year program from high school to graduation from medical school (based on 12 months per year education rather than nine months), it is hoped that this will appeal to the lawmakers. The shortened program to prepare physicians for residency sooner is significant. The preparation of this recommendation, the President concluded, has taken lots of planning and the coordination of hospitals and facilities in the 17-county area identified as northeast Ohio.

The first report of the Standing Committees was given by Dr. Gerlach for the Procedural Committee. He moved that the Council accept the report which had been circulated to its members in advance and which should be made a part of these minutes. The motion was seconded and carried. The report follows:

The Procedural Committee met on November 29, 1972 (10:35 a. m.—12:15 p. m.) to set the agenda for the December and special meetings of University Council which shall be as follows:

- December 7, 1972, 3 p. m., regular meeting
- January 4, 1973, 3 p. m., for the sole purpose of considering the Statement of Student Rights and Responsibilities
- January 18, 1973, 3 p. m., regular meeting with special attention to the ad hoc committee report on General Studies
- January 25, 1973, 3 p. m., for the sole purpose of considering the report of the ad hoc committee on the Faculty Manual

The Committee considered ways of encouraging the expedition of Council business and for saving time that should be devoted to substantive issues and debate. Pro forma reports of all committees and special representatives ought to be submitted in writing (and whenever possible in advance of Council meetings for circulation with the agenda); such reports may then be moved to be received by title for inclusion on the Council minutes and circulation in the AU Chronicle. Any oral presentation from committee spokesmen should be limited strictly to such items as are directly germane to matters of business on the Council floor. Although the Committee considered a rule to limit the length of Council sessions or to set a time beyond which no voting would be allowed (because Councillors frequently drift out of the house, etc.), the Committee decided that it was not wise to adopt such a hard and fast rule, that if it were to be adopted it

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ought to be a bylaw of Council or be moved at each meeting to apply only to one session at a time, but that such a rule would not allow enough flexibility for changing circumstances. Instead, the Procedural Committee recommends that all members cooperate (1) by using the title method of submitting reports for information that can be more conveniently read than heard and (2) by conducting themselves with a view to meeting promptly at 3 p. m. and adjourning by 5 p. m.

The Procedural Committee hopes that all standing committees will submit descriptions of their respective jurisdictions and functions so that the Procedural Committee may collate them for presentation in a single document to be considered by Council. This, rather than a process of seriatim committee reports on the topic, ought to assist in the expedition of business.

Mr. Harold L. Edwards resigned from the Faculty Well-Being, Rights and Responsibilities Committee due to scheduling conflicts. The Procedural Committee has appointed (with President Guzzetta's approval) Mr. Joseph Lentini to this seat.

D. R. Gerlach
for the Committee

Dr. Leathers said that there would be no report of the Executive Committee inasmuch as Dr. Poston was out of town on a North Central accreditation team visitation. He added that most of the time had been spent on matters related to the Academic Policies and Curriculum Committee which would be presented today. He paid tribute to Dr. Poston's dedicated and conscientious work beyond the call of duty, which had been particularly noteworthy with a recent bereavement in his family, etc. He said that we all owe him a debt of gratitude for his able service in this difficult period.

The Chairman called upon Dean Rogers to present the detailed recommendations of the Academic Policies and Curriculum Committee (comprising a 58 page document) which were then distributed to Council for action prior to the previously announced deadline for curricular changes for implementation by September 1973. Although those course changes which were not challenged will be accepted as a matter of record, to become effective in September 1973, there were a number of other recommendations (17 in all) which would require separate Council action. (All of these changes will be recorded elsewhere in this issue of the AU Chronicle.)

Dean Rogers moved that the description in the Graduate Bulletin (as approved by the Graduate Council) of the Doctor of Philosophy in Chemistry (page 1 of the Academic Policies and Curriculum Committee summary today) be approved.

Dr. Rogers moved that the General Bulletin description of the major in Classics—a restructuring—(page 2) be approved.

Also on page 2, the General Bulletin description for the Master of Science in Polymer Science was to reflect the elimination of the language requirement. Dr. Rogers moved its adoption.

Dr. Rogers moved that additional requirement for the Master of Arts in Political Science (page 6) be approved.

Dr. Rogers moved that the Council approve the description of the two options for the Master of Science in Biology (pages 9-10).

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On page 15 was listed the proposed change in dissertation research in the Department of Psychology. Dr. Rogers moved its adoption.

Dean Rogers then noted corrections to be made in the mimeographed listings on page 18 for the Department of Mathematics. The following courses are not to have a corresponding 500 number: 345: 405, 406, 407, and 424. This was because Graduate Council had not approved these proposed changes.

On page 19i, the Department of Modern Languages had proposed a change in the description of the Spanish undergraduate major. Dean Rogers moved its adoption.

On page 19j, Dr. Rogers noted that the course 352:450 should not show a 500 number. (Graduate Council had rejected 352:550).

Dean Rogers then moved that all changes listed through page 20 of the subject document be approved. The motion was seconded.

Dr. Richardson moved to amend the motion by adding two 3-hour courses in the Department of History (page 14): 340:448/548 Italian Renaissance, and 340:449/549 Northern Renaissance. The motion was seconded. He explained that the Department had asked to substitute these for the 5-hour course 340:440/550, which was dropped.

In the ensuing discussion Dr. Leathers said it was not the intention of the Academic Policies Committee to drop "Renaissance"; it had been considered in the Committee. Dr. Gerlach favored keeping the 5-hour course as opposed to dividing the content and increasing the number of hours at the undergraduate/graduate level. Dean Lively verified that Graduate Council had approved the proposed 340:548 and 340:549 courses in an earlier action.

The motion to amend by adding the two above history courses was put to a vote and carried.

The motion to approve all the proposed changes, as amended, through page 20, was put to a vote and carried.

Dean Rogers observed that courses being added in the Department of Electrical Engineering listed on page 26 were originally "Special Topics". He moved to accept the Engineering courses, through page 27. Dean Petry directed the attention of Council to the fact that it was not necessary for University Council to vote on any course changes when there had been no objections; hence, Dean Rogers' motion was not needed in this instance.

The courses listed on pages 28-29 for the College of Education would require special action since it was requested that they be offered in Summer Session I, in 1973. Dean Rogers moved their adoption. The motion was seconded and carried.

The changes outlined on pages 30-31 represented a restatement of core curriculum and requirements in the College of Business Administration, according to Dean Rogers and he moved their acceptance. The motion was seconded.

Mr. Switzer considered the title of 640:400 Basic Real Estate to be an apparent duplication of similar offerings in the Department of Special Programs (non-credit) as well as in the Community and Technical College. Although he had been told that its content is more finance oriented, there is not sufficient evidence of this in the course description and title. He was not opposed to the course per se, but emphasized that the faculty had been cautioned about duplication of courses. He realized

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that often a faculty member wished to introduce a course of his own preference and he recognized the student's right to be exposed to this expertise. He advocated, however, that there should be an appropriate clearing agency on campus for avoiding duplication, to determine whether the actual teaching followed the original outline, and also to provide an opportunity for presenting courses on a trial basis. He moved to delete 640:400. The motion was seconded.

Dean Dunlap explained that similar subject matter can be handled at different levels with different intent. This particular course is to be used as an advanced course related to financial management. President Guzzetta suggested that the title might be changed to reflect the Dean's point of view and to reduce misunderstanding which could result from the wording "Basic". The Dean responded that the "Basic" could be deleted although Dr. Guzzetta said he was not advocating any special wording of the title.

Dr. Durst stated that this course had not been designed to duplicate, but had been planned in the interest of students, not just faculty.

It was Dr. Merrixx's suggestion that the College of Business Administration review or revise the title.

Mr. Switzer inquired how to find out other than in the description if courses are being duplicated.

Dr. Anderson asked if a simple name change might be acceptable to the College in order to resolve the situation. Such a title might be "Real Estate Financial Management". Dean Dunlap deferred to Dr. Durst who proposed "Real Estate Investment" as the name.

The motion to amend by deleting this course was put to a vote and failed.

Mr. Switzer then moved to amend by changing the title of 640:400 to "Real Estate Investment". The motion was seconded. Dr. Durst agreed to this new proposal. The motion was put to a vote and carried.

Dean Lively, stating there had been no opportunity for discussion on the last motion, told Council that in his opinion it had taken inappropriate action since it should have been the prerogative of the College to recommend a title for inclusion in the Bulletin. He thereupon moved that the College of Business Administration be asked to assign a new title to fit the designation of the course, for inclusion in the coming edition of the General Bulletin. The motion was seconded.

Mr. Bee and Dr. Gerlach reminded the Council that before this new amendment could be considered in order, then it would have to be ruled that the preceding amendment was out of order perhaps because no "nays" had been called for by the Chair in the vote on the preceding amendment. Dr. Leathers then said it was so ordered. Dr. Gerlach also noted that Dean Lively's motion was a delegation of authority of Council, and "as you very well know" Dr. Gerlach is strongly opposed to such delegation.

The motion by Dr. Lively was put to a vote and carried.

Mr. Bee queried the Chair as to which motion had priority. The Chair ruled that the amendment by Mr. Switzer had been ruled out of order, and that Dr. Lively's was in effect.

The motion to adopt the changes on pages 30-31, as amended, was put to a vote and carried.

Dean Rogers moved that the change in baccalaureate degree requirements in the College of Fine and Applied Arts, on page 32, be approved. The motion was seconded and carried.

UNIVERSITY COUNCIL MINUTES, 12/7/72, continued

On pages 32-33 was outlined the proposed Honors Program in Art in the College of Fine and Applied Arts. Dean Rogers moved that it be approved. The motion was seconded and carried.

Dean Rogers moved that the change in requirements for enrollment in the sophomore year in the College of Nursing (on page 40) be approved. The motion was seconded and carried.

The Community and Technical College, as delineated on pages 41-43, proposed a new Associate degree program in Physical Therapy Technology. Dean Rogers moved its adoption. The motion was seconded and carried.

Dean Rogers referred to the assignment of a new curricular designation of 1000 for interdisciplinary courses in academic centers and the material listed in pages 44-47, embracing Afro-American Studies, Environmental Studies and Peace Studies, and including a Certificate Program in Environmental Studies. He moved its adoption. The motion was seconded.

It was Dr. Fatemi's motion to delete the explanatory statement for the General Bulletin following each description on pages 44-47: "This is a required course, to be offered once per year. No new courses under this program may be requested for two years, at which time a status report and review will be submitted to the Academic Vice President." The motion was seconded and carried.

In response to Dr. Lestingi's request to add a provision for review by the Academic Vice President, Dr. Leathers informed Dr. Lestingi that this statement will appear in the minutes of the Academic Policies and Curriculum Committee which are now being typed.

Dr. Atwood moved that the course, 1060:301 Value Concepts on Peace and War, on page 47, be authorized for the spring 1973 quarter. The motion was seconded and carried.

The original motion to approve the recommendations on pages 44-47, as amended, was put to a vote and carried.

Dr. Gerlach wished to go on record as opposing the adoption of interdisciplinary courses which have not passed through the appropriate departments and Colleges in any official way. He considers this the first step toward autonomy of departments of which he does not approve, and a beginning of new academic bureaucracy. He asserted that the dubious wisdom of this sort of proposal was one reason for the time limit on further such designations for two years, to provide time for this experiment to be judged before proceeding further.

Dr. Jackson pointed out that the correct title for new course 1030:201 is "Man and the Environment."

Dean Barker also affirmed his objection to these interdisciplinary courses being approved without having first gone through the same procedures as all other courses, including recommendation by the appropriate Colleges, although he did not object necessarily to the content of these particular courses.

Dr. Wilson spoke against the grossly inadequate time span provided for University Council to consider all these changes, as outlined on some 58 pages of this report from the Academic Policies and Curriculum Committee. This long report itself was first available to Council on entering today's meeting, when the vote had to be taken! Few, if any, members of Council have even read the document in its entirety! Yet, because we are again faced with our annual crisis to approve curricular changes before some deadline, we are expected to act on these changes today! This is only a part of a very big problem, however. There are also the matters of (a) insufficient time for departments

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or individual faculty members to examine curricular change proposals before the deadlines for objection, (b) insufficient copies of the proposals for convenient examination by individual faculty members, (c) uncertain procedures and/or criteria for objection to any proposal, and (d) consideration of proposals by the Academic Policies and Curriculum Committee before deadlines for objection have expired. Until all of these difficulties have been intelligently resolved, then the time University Council spends in solemnly approving curricular changes it has not studied carefully seems largely wasted.

Dean Rogers replied that the Academic Policies Committee recognized the seriousness and the large number of changes. They need to determine criteria for adding or deleting courses, and the information to make the judgment. Because of the pressures to complete the changes for this year by this December meeting, and with the request not to expand course offerings unduly, members of the Committee were divided as to accepting no changes, etc. Today's presentation is a compromise. The Committee expects in the months ahead to determine criteria and policies in these matters.

Dr. Anderson pointed out to Dr. Gerlach and to Dean Barker that all these interdisciplinary courses had been properly circulated through channels and considered by the Academic Policies Committee, in standard procedure. He felt it necessary to find a way to meet the needs of these academic centers.

Dr. Barker reiterated his conviction that a College as a whole should vote on the pertinent academic center course changes, though he saw much good in interdisciplinary approaches.

When Dr. Richardson brought up again the question of how to provide criteria as a charge to the Academic Policies Committee, the Vice President for Academic Affairs emphasized that this was already on the agenda for the Academic Policies Committee this spring.

In response to Dr. Durst's query as to whether these interdisciplinary courses were funded, Dr. Leathers assured him that they were, through each academic center.

Dr. Lestingi pointed out that most of the courses listed on page 46 under Center for Environmental Studies are not new courses, but are existing courses.

Mr. Schrank expressed concern about the planning in relation to Library holdings inasmuch as he had not been informed and did not have a budget for Environmental Studies. Dr. Leathers said that all courses being taught could be funded through their original departments.

Mr. Switzer was curious about what course changes could be expected next year, considering the magnitude of the "few" recommended this year in an effort to curtail expansion.

Although the recommendations involving the programs of the academic centers on pages 44-47 had already been voted affirmatively, the motion was put to a vote again and all items were approved.

On behalf of the Academic Policies and Curriculum Committee, Dean Rogers then circulated two other reports—"Requirements for Baccalaureate and Associate Degrees" and "Advising of General College and Community and Technical College Students." It was hoped that members of Council would be prepared to consider these at a later meeting. The statements appear elsewhere in this issue of the AU Chronicle.

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For the Calendar Subcommittee of the Academic Policies and Curriculum Committee of the University Council, Dean Rogers read the following statement, which was also distributed at that time to the membership:

The Academic Policies and Curriculum Committee reconsidered the date of the June 1973 Commencement.

We recommend that the June Commencement, with official diplomas, be held on June 10, 1973 at Blossom Center. Final exams will begin on Saturday, June 2, to run through Wednesday, June 6. Classes will be terminated on Thursday, May 31, to allow students one free day before beginning examinations.

We also recommend that the Calendar Committee work out an early start for the 1973-74 academic year to permit support of the April 1972 University Council legislation.

Mr. Moldea asked to withdraw his substitute motion (made at the last meeting of Council), with the acceptance of the seconder (Dr. Fatemi), in order to support the present motion. (It had read: "Examinations are to begin on Thursday, May 31, 1973, and extend to Wednesday, June 6, so that Commencement could be held with official diplomas on June 10 at Blossom Center, with eligible graduating seniors participating.")

Dr. Roberts asked for clarification of the statement, "Classes will be terminated on Thursday, May 31." It was affirmed that the termination was to be at the end of that day. Dean Major ascertained that no final exams were contemplated for Sunday.

Dr. Jackson asked if the committee had considered the sequential importance of laboratory work and the denial of important time with the elimination of that Friday. Miss Tovey also objected because the spring quarter would lose 18 hours for one of her classes because of the observance of May Day, Memorial Day and now this last Friday.

Dean Lively expressed resentment to the proposal noting that apparently Commencement was set at the expense of having to readjust the entire quarter calendar. He felt Council had no right to abrogate its original ruling on the calendar which had preceded the Commencement consideration. He felt that if the Board of Trustees was letting the Council legislate and if they knew how the Council reneged on its obligations, they would likely want to review all of its actions. This latest action seems completely irresponsible in terms of our academic procedures.

Mr. Briner observed that law classes met on Friday night and they would lose three hours, amounting to 10 percent of the quarter's work.

Dr. Gerlach also cited these exceptions as making the spring quarter always the shortest in actual instruction time, and he opposed the proposal to give up these teaching days to satisfy any non-academic whim.

Dr. Lestingi read the statement in the April AU Chronicle regarding the new examination and Commencement schedule as passed in the March 1972 meeting of University Council. He reminded Council that this was adopted after the calendar for the year had been approved. He noted that changing this for the graduating seniors was unfair to the much larger body of students, would be a deprivation for the serious-minded Weekend College students shortchanging them by 10 percent, would provide fodder for newspaper criticism, and would necessitate return to the 1.5 hour exam and a

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concentrated exam schedule. He referred to the motto on the sign outside the Student Mail Room: "Doing for others is doing for yourself". He thereupon moved that final exams be held June 4-9, 1973, that Commencement be held on June 10 with no diplomas, and that the University calendar for 1973-74 ensure June graduation not later than May 31, 1974. The motion was seconded.

Dean Barker said that others talked of "irresponsibility", but he would like to talk about "integrity". Many professors already are causing concern because they give exams a whole week in advance, and this would be in itself cause for taxpayer's criticism. It is necessary to get the job (of completing spring quarter) done early so that students can get out to work. This includes getting students graduated with diplomas. We should be honest with ourselves, and with the students.

Dr. Fatemi stating a point of personal privilege, regretted Dr. Lively's intimation that the Board of Trustees might feel it necessary to review all Council action, and objected to his calling Council irresponsible. He felt that the record of Council looks no worse than other legislative bodies (that have made very expensive legislative mistakes).

Dr. Lively said that he agrees with Council actions, but objects to the idea of changing them at this last minute.

Mr. Moldea, as a senior graduating next June, asked how to reconcile these different recommendations. He felt other seniors believed as he did that they would want their final diplomas at Commencement.

President Guzzetta expressed concern at the number of faculty who do not adhere to existing regulations and who have given their final examinations in advance of the designated week. Since we have lived with the present system for some years, he asked why it was so critical to make this change at the last minute. He felt that it was most important for each graduate to receive his own diploma and although he agreed with the need for a six day exam week, he saw no reason why we should upset the program this year. The calendars and published dates all indicate June 10 for Commencement 1973 and it had been expected that the seniors would be identified individually and that all honors would be accurate. Also, because of the large size of the June graduation it must be held at Blossom Center as the only place which can accommodate us and June 10 is their last seasonal available date. For these reasons he wondered why we could not return to the "old" system this year and change the calendar next year (1973-74).

Dr. Jackson observed that with the discussion of this examination week for the last two years, it appeared like negotiations, with factions still wanting more. He advocated continuing with the original plan.

Mr. Bee commented that he would summarize some aspects of the problem under discussion: (1) the June 10 date is not at issue; (2) the problem is insoluble, and the decision is which choice we choose to live with; (3) which earlier action should take priority—the original calendar or the later exam ruling; and (4) despite concern for this year, he can propose a more suitable calendar for next year (which might raise some other problem!).

Dean Barker proposed a three-day exam period of 1.5 hour exams just for this year.

Dr. Fatemi moved that the Council convene as a Committee of the Whole in order to hear Registrar Baldwin's reaction to this discussion. The motion was seconded and carried. The President Pro Tempore, Dr. Gerlach, then assumed the chair, at the invitation of Dr. Leathers, who ordered a 5-minute session limit for the Committee of the Whole.

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Mr. Baldwin, at the invitation of the Chair, said that we have always had a four-day exam period and if we have a three-day exam period this year the students can graduate with diplomas. The exams would be 1.5 hours.

Dr. Gerlach suggested Saturday, Monday, Tuesday, Wednesday for the four-day period.

Dr. Jackson did not want Friday deleted from classes. He would favor the plan if classes met on Friday.

Dr. Leathers agreed with classes meeting on Friday, and exams starting on Saturday, and ending on Wednesday.

Mr. Moldea wanted to be sure his motion of November had been withdrawn, and was assured it had.

Dr. Lestingi spoke again for the six-day exam period.

With the expiration of the five-minute session period, Dr. Leathers assumed the Chair and asked Dr. Gerlach to report on the action of the Committee of the Whole. He said that the Committee having duly deliberated, no decision had been made!

Dr. Hart was of the opinion that it was unethical to return to the four-day exam schedule. He also said that some people do not expect to have exams on Sunday, but noted that some members of other religions have their Sabbath on Saturday. Dr. Fatemi noted the same for Friday! Dean Hedrick, on checking the meetings of the Weekend College on Saturday, commented that two Saturdays would be lost to them in May (comprising 20 percent of the spring quarter!).

Dr. Fatemi moved the previous question which was seconded and carried.

Dr. Lestingi's amendment was put to a vote and lost.

Dr. Fatemi moved to amend Dean Rogers' original motion on the June 1973 Commencement (as recommended by the Academic Policies and Curriculum Committee) by deleting the sentence: "Classes will be terminated on Thursday, May 31, to allow students one free day before beginning examinations". The motion was seconded.

Dr. Richardson felt that this would cause considerable hardship among those students who work on Saturday, he preferred that exams should start on Monday, with a strong effort made to schedule most senior exams by Wednesday. Dr. Richardson then moved to amend Dr. Fatemi's amendment to change the dates of final exams to Monday, June 4, to run through Thursday, June 7. The motion to amend was seconded and carried.

Dr. Wilson asked if Mr. Baldwin could indicate whether this proposed arrangement is physically possible for the Registrar to carry out. Dr. MacGregor conveyed Mr. Baldwin's assurance of this, but it was understood that senior grades should be in by Wednesday night. This will be the same procedure now followed, and will require 1.5 hour final exam periods. The amended motion was put to a vote and carried. It now reads:

UNIVERSITY COUNCIL MINUTES, 12/7/72, continued

The June Commencement, with official diplomas, will be held on June 10, 1973, at Blossom Center. Final exams will begin on Monday, June 4, to run through Thursday, June 7.

The Calendar Committee will work out an early start for the 1973-74 academic year to permit support of the March 1972 University Council legislation.

Continuing with the reports of the Standing Committees, Dean Petry said that the Athletics Committee had no report.

The Chairman called on Dr. Jackson who said that the Committee on Faculty Well-Being, Rights and Responsibilities had met last Monday regarding untenured faculty and three faculty members of the School of Law had testified. The Committee would be pleased also to hear from other faculty members, who may call Dr. Jackson or any member of the Committee to arrange for such a meeting. Guidelines on promotion, retention and tenure have been received by this Committee from all the Colleges except Community and Technical, Education and Engineering. The Committee urges the faculty members of the departments and divisions in these three Colleges to complete their own procedures for promotion, retention and tenure and forward these as soon as possible. Dr. Jackson moved the acceptance of his report; this was seconded and carried.

Dean Lively informed the Council that 38 proposals had been submitted to the Research (Faculty Projects) Committee and 30 had been funded. The announcement of the second deadline for submitting proposals will be made for the winter quarter. (A list of the current grants will be published in the AU Chronicle.)

The brief written report of the Reference Committee was inserted in the minutes at this point by Dr. Wilson, in the absence of Dr. Van Fleet:

The Reference Committee unanimously adopts the following statement of function:

This Committee reviews legislation referred to it by University Council to ascertain if it is drafted properly and does not conflict with existing rules and regulations or practices.

Further, the Committee requests that this statement of function be adopted by the Council.

As the Akron representative on the Faculty Advisory Committee to the Chancellor of the Ohio Board of Regents, Dr. Fatemi said he would comply with Council's recently instigated gag rule, which had even permeated the President's remarks. However, he did wish to call attention to the December report of his Committee, particularly the paragraph relating to Governor Gilligan's reported suggestion that the individual Boards of Trustees be abolished and all 12 public institutions of higher education in the state come under a single Board of Trustees. He wanted faculty reaction (general boos and hisses from Council members) to this suggestion, which will be published in Dr. Fatemi's letter elsewhere in this issue of the AU Chronicle.

Dr. Merrih had no report at this time from the Ohio Faculty Senate. As Chairman of the ad hoc Committee for the University Faculty Senate (Buchtel College proposal), he did advocate once again a more appropriate Committee name. There will be open faculty meetings on a University Faculty Senate in January.

UNIVERSITY COUNCIL MINUTES, 12/7/72, continued

Dr. Leathers emphasized that the Procedural Committee had set dates for special Council meetings in January for specific considerations:

January 4, 1973, for the sole purpose of considering the Statement of Student Rights and Responsibilities.

January 18, 1973, regular meeting with special attention to the ad hoc committee report on General Studies.

January 25, 1973, for the sole purpose of considering the report of the ad hoc committee on the Faculty Manual.

Because of the lateness of the hour, on motion the meeting was adjourned at 5:05 p. m.

Any comments concerning the contents of AU Chronicle may be directed to the Office of the President or to the Executive Director of University Relations and Development.

CURRICULUM CHANGESBUCHTEL COLLEGE OF ARTS AND SCIENCESDepartment of Biology

Change:	310:133	<u>Microbiology</u> . 4 credits. (Add the following after course description:) "Not available for credit toward a degree in Biology."
	310:177	<u>Introductory Bacteriology</u> . 3 credits. (Add the following after course description:) "Not available for credit toward a degree in Biology."
	310:147-148-149	<u>Anatomy and Physiology</u> . 3 credits each. (Revised catalog description:) Anatomy of the human body, chiefly gross study of all organ systems with emphasis on the physiological processes. Background of high school chemistry or equivalent strongly recommended. Not open to biology and pre-medical majors. Laboratory.
	310:307	<u>Microbiology</u> . 4 credits. Prerequisite, one year of college chemistry; 123.
		to
	310:307	<u>Microbiology</u> . 4 credits. Prerequisite, one year organic chemistry.
	310:308	<u>Microbiology</u> . 4 credits. Prerequisite, 307. Organic chemistry recommended.
		to
	310:308	<u>Microbiology</u> . 4 credits. Prerequisite, 307.
	310:603	<u>Special Topics in Biology</u> . 1-3 credits. (Add to course description:) (may be repeated for maximum of 6 credits).
Drop:	310:227	<u>Techniques in Biology</u> . 4 credits.
Add:	310:229	<u>Histological Technique</u> . 4 credits. Techniques for the preparation of plant and animal tissues for light and electron microscopy. Laboratory.
	310:403	<u>Special Topics in Biology</u> . 1-3 credits (may be repeated for maximum of 6 credits). Prerequisite, permission. To enable undergraduate students to acquire information in special areas in which no formal course is offered.
	310:470/570	<u>Biology of Behavior</u> . 3 credits each. Prerequisites, 14 credit hours in Biology and/or Psychology and senior or graduate standing. The biological basis of behavior; ethological theory; the function, causation, significance, evolution, and adaptiveness of behavior.

CURRICULUM CHANGES, continued

Requirements for the Master of Science Degree in Biology
(Revised Bulletin description, Graduate School section, page 129)

Two options are available:

1. Research option: This program is designed primarily for students who will pursue a research career, including those who intend to enter a doctoral program in the biological sciences. Research and thesis, nine credits. A minimum of 36 credits total course work approved by the student's advisory committee is required. A minor may be taken in approved graduate courses, including education. Participation in seminars and demonstration, prior to last quarter of enrollment, of reading proficiency in a foreign language appropriate to the field of study are required. Summer study at a biological station is recommended.
2. Non-thesis option: The curriculum is oriented to the needs of students for whom the M. S. degree will probably be a terminal scientific degree and who do not need extensive research experience.

The requirements are the same as option 1, except that no thesis and research is undertaken, but a total of 54 hours of approved course work is required.

Department of Chemistry

Change: The General Bulletin and Graduate Bulletin description regarding departmental Ph. D. requirements should read as follows:

Doctor of Philosophy in Chemistry

In addition to satisfying the general requirements of the Graduate School, students working toward the Doctor of Philosophy Degree in Chemistry must meet the following requirements:

1. Must take proficiency exams in Organic, Inorganic, Physical and Analytical Chemistry. Results of these exams will be used by the department for diagnostic purposes.
2. Satisfactory completion of a course of study designed and accepted by the student's advisory committee. This course of study shall consist of a program deemed suitable to prepare the student in his designated area of chemistry, and shall consist of a minimum of 36 credits in graduate courses. Eight credits a quarter shall be considered a normal load. At least 18 credits of graduate work, and all dissertation credits, must be completed at The University of Akron.
3. Earn credit for a dissertation, to be established by enrollment in 315:865, such that course credits plus dissertation credits total at least 126 credits (exclusive of M. S. dissertation credit).
4. Pass cumulative examinations given approximately monthly. The candidate is urged to begin to take these examinations early in his graduate program, and must pass seven cumulative exams, six written and one oral, for the degree requirement.
5. Pass an oral examination upon completion of the research dissertation.
6. Pass the general requirements for the Doctor of Philosophy Degree.

CURRICULUM CHANGES, continued

Department of Classics

Change: General Bulletin description to read as follows:

320: CLASSICS
(320: Classics, 321: Greek, 322: Latin)

Requirements for a B. A. with a major in Classics, Latin, or Greek:

1. The General Studies.

2. 36 credits in the department including:

320:161, 162, 163	<u>Comparative Literature</u>	9
320:313, 314, 315	<u>Classical Archaeology</u>	9
	Total	18
	Classics Electives	18

Language courses must be above the 200 level in order to be included in this total. In the case of a Latin major, six (6) credits in this language (preferably in Latin Grammar and Idiom) must be taken during the senior year.

3. Certification requirements:

Students wishing to be certified for public school teaching with Latin as the principal teaching field must complete 39 credits in that language. In addition they must complete the required credits in a second academic teaching field. See Teaching Fields section under the College of Education.

Department of Economics

Add:	325:360	<u>Industrial Organization and Public Policy.</u> 4 credits. Prerequisite, 325:201-202. The role of industrial structure and firm conduct in the performance of industry and the way in which antitrust policy is designed to provide remedies where performance is unsatisfactory.
	325:616	<u>Antitrust and Regulation.</u> 4 credits. Prerequisite, 325:611 and 615 recommended or consent of instructor. Antitrust policy and the regulation of industry. Focus on the economics of precedent-setting judicial decisions, and also on government policies in context of existing knowledge in areas of industrial organization and price theory. Alternative policies are examined.
	325:642	<u>The Economic Theory of Public Choice.</u> 4 credits. Course concerns both positive and normative issues. Attention on criteria for public decision-making on the normative side, and on the analysis of institutional behavior (form and change) in the area of collective choice on the positive side. Discussion of real issues in at least our own urban and regional area.

CURRICULUM CHANGES, continued

Department of Geography

Change:	335:100	<u>World Cultural Geography.</u>	4 credits.
		to	
	335:100	<u>Introduction to Geography.</u>	4 credits.

Add or change prerequisites to the following courses:

335:312	<u>Geographic Aspects of Landforms.</u> 3 credits. Prerequisite, 335:210 or permission.
335:314	<u>Climatology.</u> 3 credits. Prerequisite, 335:210 or permission.
335:324	<u>Geography of World Manufacturing.</u> 3 credits. Prerequisite, 335:220 or permission.
335:326	<u>Geography of Mineral and Power Resources.</u> 3 credits. Prerequisite, 335:220 or permission.
335:336	<u>Urban Land Use Analysis.</u> 3 credits. Prerequisite, 335:230 or permission.
335:346	<u>Geographic Aspects of Air Photo Interpretation.</u> 3 credits. Prerequisite, 335:240 or permission.
335:350	<u>Anglo America.</u> 3 credits. Prerequisite, 335:100 or permission.
335:353	<u>Northern Latin America.</u> 3 credits. Prerequisite, 335:100 or permission.
335:354	<u>Southern Latin America.</u> 3 credits. Prerequisite, 335:100 or permission.
335:356	<u>Europe.</u> 3 credits. Prerequisite, 335:100 or permission.
335:358	<u>USSR.</u> 3 credits. Prerequisite, 335:100 or permission.
335:360	<u>East Asia.</u> 3 credits. Prerequisite, 335:100 or permission.
335:361	<u>South and Southeast Asia.</u> 3 credits. Prerequisite, 335:100 or permission.
335:362	<u>Middle East.</u> 3 credits. Prerequisite, 335:100 or permission.
335:363	<u>Africa South of the Sahara.</u> 3 credits. Prerequisite, 335:100 or permission.
335:415/515	<u>Geography of Water Resources.</u> 3 credits. Prerequisite, 335:210 or permission.

CURRICULUM CHANGES, continued

- 335:418/518 Geography of Vegetation and Soils. 3 credits. Prerequisite, 335:210 and permission.
- 335:422/522 Geographic Aspects of Transportation. 3 credits. Prerequisite, 335:200 or permission.
- 335:428/528 Industrial and Commercial Site Selection. 3 credits. Prerequisite, 335:220 or permission.
- 335:433/533 Geographic Aspects of Planning. 3 credits. Prerequisite, 335:230 or permission.
- 335:435/535 Geography of Recreation Resources. 3 credits. Prerequisite, 335:230 or permission.
- 335:438/538 Geography of the Metropolitan Area. 3 credits. Prerequisite, 335:230 or permission.
- 335:444/544 Map Compilation and Reproduction. 3 credits. Prerequisite, 335:240 or permission.
- 335:447/547 Remote Sensing of the Environment. 3 credits. Prerequisite, 335:240 or permission.
- 335:448/548 Statistical Mapping. 3 credits. Prerequisite, 335:240 or permission.
- 335:481/581 Introduction to Geographic Research. 3 credits. Prerequisite, 18 hours of Geography.
- to
- 335:481/581 Introduction to Geographic Research. 3 credits. Prerequisite, 18 hours of Geography courses.
- 335:483/583 Introduction to Spatial Analysis. Prerequisite, 335:481.
- to
- 335:483/583 Introduction to Spatial Analysis. Prerequisite, 335:481 or permission.
- 335:484/584 Field Research Methods. 3 credits. Prerequisite, 335:481 or permission.
- 335:610 Seminar in Physical Geography. 4 credits. Prerequisite, 335:210 or permission.
- 335:615 Advanced Climatology. 4 credits. Prerequisite, 335:314 or permission.
- 335:620 Seminar in Economic Geography. 4 credits. Prerequisite, 335:220 or permission.

CURRICULUM CHANGES, continued

- 335:630 Seminar in Urban Geography. 4 credits. Prerequisite, 335:230 or permission.
- 335:640 Advanced Cartography. 4 credits. Prerequisite, 335:380 or permission.
- 335:660 Seminar in Cultural and Political Geography. 4 credits. Prerequisite, 335:374.
- 335:682 Seminar in Regional Methodology. 4 credits. Prerequisite, 335:481/581.
- 335:687 History of Geographic Thought. 4 credits. Prerequisite, 335:481/581.

Department of Geology

- Drop: 337:325 Stratigraphy. 4 credits.
- 337:417 Optical Mineralogy. 4 credits.
- 337:418 Petrography. 4 credits.
- 337:419 Clay Mineralogy. 4 credits.
- 337:421 Igneous Petrology. 4 credits.
- 337:422 Metamorphic Petrology. 4 credits.
- 337:423/523 Sedimentary Petrology. 4 credits.
- 337:431/531 Rocks and Minerals. 5 credits.
- 337:460/560 Advanced Paleontology. 3 credits.
- 337:465/565 Urban Geology. 4 credits.
- 337:582 Research Problems. 1-3 credits.
- Add: 337:417/517 Optical Mineralogy. 4 credits. Prerequisite, 217 Mineralogy or equivalent. An introduction to the petrographic microscope and its use in the identification of minerals in thin section. The optical properties and occurrence of common igneous, metamorphic, and sedimentary minerals will be studied in detail. Laboratory.
- 337:418/518 Petrography. 4 credits. Prerequisite, 417/517 or equivalent. The classification and description of igneous, metamorphic, and sedimentary rocks using the polarizing microscope. Lecture will also deal with the mode or origin of igneous, metamorphic and sedimentary rocks as inferred from microscopic studies of texture and mineral assemblages. Laboratory.
- 337:425/525 Stratigraphy. 4 credits. Prerequisites or corequisites, 260 Invertebrate Paleontology; and 324 Sedimentation, or permission of the department. A first course in stratigraphy for beginning graduate students and qualified seniors in the earth sciences. Important topics include modern sedimentary environments as a means for treating the rock record; principles of stratigraphic nomenclature; sedimentary facies; the use of fossils in subdivision of the rock record and correlation; geologic time units, time-rock units, and rock units; boundary problems in the stratigraphic record. Field studies of selected stratigraphic units in eastern Ohio will permit practical application of theory and principles.

CURRICULUM CHANGES, continued

- 337:612 Advanced Field Studies. 2 credits (may be repeated for a total of 4 credits). Prerequisite, permission of instructor. A field trip course to areas displaying geology, not available locally. Course involves pretrip preparation, field observations and data gathering and written reports or examinations at conclusion of trip. Students will bear the actual expense of trip.
- 337:619 Clay Mineralogy*. 4 credits. Prerequisite 417/517 Optical Mineralogy. The classification, identification, and genesis of clay minerals and clay rocks, their use and exploitation. Laboratory will stress methods of identification of clay minerals and the analysis and petrogenetic interpretation of clay materials in suites of samples from the rock record.
- 337:621 Igneous Petrology*. 4 credits. Prerequisite, 418/518 and 417/517. A study of the origin and paragenesis of igneous rocks. Lecture will stress the petrochemistry and occurrence of major families of igneous rocks. The laboratory will be devoted to petrographic study of selected rock suites.
- 337:622 Metamorphic Petrology*. 4 credits. Prerequisite, 418/518. A study of the origin and paragenesis of metamorphic rocks. Lecture will stress the chemistry of metamorphic reactions, the textures fabrics induced by metamorphism, and the occurrence of metamorphic rocks. The laboratory will be devoted to petrographic study of selected rock suites.
- 337:623 Sedimentary Petrology. 4 credits. Prerequisite, 323 and 417/517 or permission. Detailed hand sample and their section examination of selected sedimentary suites, particularly with respect to mineralogy and texture. Laboratory.
- 337:631 Rocks and Minerals. 5 credits. Prerequisite, 101 and permission. An intensive course for graduate students in the earth sciences who come into the field from disciplines other than geology. Lecture will stress those processes that give rise to minerals and rocks and some aspects of crystallography. Laboratories will stress methods of identification and analysis of minerals and rocks. For science teachers.
- 337:660 Evolution and the Fossil Record*. 3 credits. Prerequisite, 260 Introductory Invertebrate Paleontology. The major features of evolution including rates of evolution and extinction, using selected fossil groups as examples.
- 337:665 Urban Geology. 4 credits. Prerequisites, 210, 215, 217, 415/515 or permission. Problems of urbanization as related to the consumption of our finite resources and the creation of wastes. Geologic hazards. Case histories which demonstrate the application of geologic data to management and conservation.

*To be offered in alternate years.

CURRICULUM CHANGES, continued

- 337:682 Graduate Research Problems. 1-3 credits (may be repeated to a total of 6 credits). Prerequisite, Departmental approval. Directed reading and research in special field of interest chosen by student in consultation with the instructor.
- 337:684 Selected Topics in Geology. 1-4 credits (may be repeated for a total of 8 credits). Prerequisite, permission of Instructor. Study of selected topics in geology not regularly offered as formal courses, generally of classic or current importance. Entails lectures, readings, discussions, and/or guided laboratory work.

Department of History

- Change: 340:427/527 Reconstruction. 3 credits.
to
340:427/527 Civil War and Reconstruction. 3 credits. Politics and conduct of the war to 1865; Reconstruction, roots of Jim Crow mentality.
- 340:436/536 History of the American City to 1870. 3 credits,
to
340:436/536 History of the American City. 5 credits. An examination of urbanization and its consequences from the colonial period to the present.
- 340:441/541 The Reformation. 5 credits,
to
340:450/550 The Reformation. 5 credits.
- Drop: 340:437/537 History of the American City since 1870. 3 credits.
340:440/540 Renaissance. 5 credits.
340:463/563 England to 1530. 3 credits.
340:464/564 England, 1530-1750. 3 credits,
340:465/565 England, 1750-Present. 3 credits.
340:467/567 England, 1471-1588. 3 credits.
340:468/568 England, 1588-1660. 3 credits.
340:469/569 England, 1660-1763. 3 credits.
- Add: 340:350 Selected Topics in History. 4 credits. Selected topics may include experimental departmental offerings such as those which cross subject or chronological lines within history or those which are not presently offered by the department and listed in the catalogue. See the departmental office for current subject.
- 340:448/548 The Italian Renaissance. 3 credits. The Italian Renaissance with emphasis on economic, social, and cultural trends.
- 340:449/549 The Northern Renaissance. 3 credits. The Renaissance in the North with emphasis on economic, social, and cultural trends.
- 340:470/570 Anglo-Saxon and Medieval England to 1471. 5 credits. Anglo-Saxon life, thought and institutions, the Norman Conquest; Medieval life, thought, and institutions.

CURRICULUM CHANGES, continued

- 340:471/571 Tudor England, 1471-1588. 3 credits. The Yorkists and Tudors; the transition from medieval to early modern times. The early Elizabethian age.
- 340:472/572 Stuart England, 1588-1685. 3 credits. The Armada; the late Elizabethan age; the early Stuarts—conflict, revolution, the Restoration.
- 340:473/573 The Age of Aristocracy in England, 1685-1783. 3 credits. The Sensible Revolution—late Stuarts and early Hanoverians: politics, religion, and society in the Age of Aristocracy.
- 340:474/574 The Age of Improvement in England, 1783-1867. 3 credits. The Agricultural and first Industrial Revolutions; the politics of reform.
- 340:475/575 England Since 1867. 3 credits. The second Industrial Revolution; politics in transition; the development of the welfare state; war society.

Department of Mathematics

Change: Departmental name from Department of Mathematics
to
Department of Mathematics and Statistics

- 345:311 Introduction to Modern Algebra I. 3 credits.
to
345:311 Abstract Algebra. 3 credits. Prerequisite, 233. Introduction to groups, rings, integral domains, axiomatic foundation of the natural, integer, rational, real, and complex number systems.
- 345:312-313 Introduction to Modern Algebra II, III. 3 credits each.
to
345:312-313 Linear Algebra I, II. 3 credits each. Prerequisite, 233. Sequential. Vector spaces, linear transformations, matrices, determinants, inner product spaces, spectral theory, quadratic forms, linear programming.
- 345:414/514 Selected Topics in Higher Algebra. 3 credits.
to
345:484/584 Topics in Mathematics. 3 credits. Prerequisite, permission. Selected topics in advanced mathematics, including subject areas in analysis, algebra, geometry.
- 345:442/542 Projective Geometry. 3 credits. Prerequisite, 313 or equivalent.
to
345:442/542 Projective Geometry. 3 credits. Prerequisite, 311 or 406 or consent of Instructor.
- 345:611-612-613 Algebraic Theories I, II, III. 3 credits each. Prerequisite, 313.
to
345:611-612-613 Algebraic Theories I, II, III. 3 credits each. Prerequisite, 311-312 or 406 or 510 or consent of Instructor.

CURRICULUM CHANGES, continued

- 345:621-622-623 Real Variables I, II, III. 3 credits each. Prerequisite, 423 or 483.
to
- 345:621-622-623 Real Variables I, II, III. 3 credits each. Prerequisite, 423 or 483 or
consent of Instructor.
- 347:661 Regression and Correlation. 3 credits. Prerequisite, 345:653.
to
- 347:661 Regression and Correlation. 3 credits. Prerequisite, second quarter
of a sequential statistics course or equivalent.
- 347:662-663 Linear Models I, II. 3 credits each. Prerequisite, 653.
to
- 347:662-663 Linear Models I, II. 3 credits each. Prerequisite, 653 or permission.
- 347:676 Nonparametric Statistics Methods. 3 credits. Not open to mathemat-
ical statistics majors. Theoretical bases and relationships among
various nonparametric techniques compared with parametric ones.
to
- 347:676 Nonparametric Statistics Methods. 3 credits. Theoretical bases and
relationships among various nonparametric techniques compared with
parametric ones.

The following corrections should be made in the Catalog:

- Page 131: Under Electives, 5th line down should read: Option I: fifteen addi-
tional credits in 500-level or
- Page 133: Under Statistics, 1. Core Requirements: Change 347:663 to
347:665.
- Page 215: Under 345:698 Mathematics and Statistics Seminar should read:
"For properly qualified candidates..."
- Drop: 345:481/581 Introduction to Real Analysis I. 3 credits.
 345:421/521 Applied Advanced Calculus I. 3 credits.
- Add: 345:405 Concepts in Geometry. 3 credits. Prerequisite, consent of Instructor.
A presentation of geometry as a branch of contemporary mathematics
by treating Euclidean geometry in an axiomatic manner to meet the
current standards of rigor. Topics included are incidence, distance,
betweenness, planar and spatial order properties, congruence, angles,
triangles, non-Euclidean Geometries, similarities, circles, spheres,
areas, ruler and compass constructions.
- 345:406 Concepts in Algebra. 3 credits. Prerequisite, consent of Instructor.
Prerequisite, consent of Instructor. Not available to students taking
345:311. Definition and elementary properties of groups, rings, in-
tegral domains, fields, vector spaces, with major emphasis on the
rings of integers, rational numbers, complex numbers and poly-
nomials. Intended primarily for secondary school teachers.

CURRICULUM CHANGES, continued

- 345:407 Concepts in Analysis. 3 credits. Prerequisite, consent of Instructor. Not available to students taking 345:420. A careful introduction to the notion of a limit and to related notions of continuity, differentiation and integration with particular emphasis on gaining conceptual mastery rather than in the acquisition of manipulative skills.
- 345:420/520 Advanced Calculus I. 3 credits. Prerequisite, 236 Differential Equations. An introduction to the real number systems, series and sequences, and the theory of convergence and uniform convergence.
- 345:424 Topics in Applied Mathematics. 3 credits. Prerequisite, 423 or permission of the Instructor. Selected topics, such as mathematical model building, non-linear oscillations, stability theory, graph theory, combinatorics, game theory, or other areas of applied mathematics.

Department of Modern Languages

- Change: 352:101-102-103 Beginning French I, II, III. 4 credits each. Sequential. Reading, speaking, writing and listening comprehension; intensive drill in pronunciation, short stories, outside reading and/or supplementary work in the Language Laboratory.
- to
- 352:101-102-103 Beginning French I, II, III. 4 credits each. Sequential. A thorough study of the sound system and basic structural patterns of the French language, including oral practice and the reading of simple prose. A placement test is required of every student who has completed more than one unit of French in high school.
- 352:201-202-203 Intermediate French I, II, III. 3 credits each. Sequential; prerequisite, 103 or equivalent. Grammar review, practice in reading, writing, speaking and listening comprehension; short stories, plays, novels on intermediate level, outside reading and/or supplementary work in the Language Laboratory.
- to
- 352:201-202-203 Intermediate French I, II, III. 3 credits each. Audio-oral sections. Sequential; prerequisite, 103 or equivalent. Practice in reading, writing, speaking and listening comprehension. Grammar review, short stories, plays and novels on intermediate level. A placement test is required of every student who did not complete 103 or the equivalent.
- 352:301-302-303 French Composition and Conversation. 3 credits each. Prerequisite, 203 or equivalent. Advanced composition using French models, special attention to words and idioms, development of oral expression and conversational ability.
- to
- 352:301-302-303 French Composition and Conversation. 3 credits each. Prerequisite, 203 or equivalent. Free composition, special attention to vocabulary and idioms, development of oral expression and conversational ability. In 303, introduction to the fundamentals of explication de textes.

CURRICULUM CHANGES, continued

- 352:305-306-307 Introduction to French Literature. 3 credits each. Prerequisite, 203 or equivalent. Introduction to the study of French literature; the fundamentals of explication de textes with reading and class discussion in French of representative works.
- to
- 352:305-306-307 Introduction to French Literature. 3 credits each. Prerequisite, 203 or equivalent. Survey of French literature from its origins to the present, with lectures, readings, and class discussions of representative works.
- 352:309-310-311 French Culture and Civilization. 3 credits each. Prerequisite, 303 or 307 or permission. An Audio-visual survey of the French cultural heritage emphasizing color slides and recorded music. Conducted in French.
- to
- 352:309-310-311 French Culture and Civilization. 3 credits each. Prerequisite, 303 or 307 or consent of Instructor. An audio-visual presentation with class discussions of the French cultural heritage from its origins to the present. Conducted in French.
- 352:403-404-405 Advanced French Composition and Conversation. 3 credits each. Prerequisite, 303 or equivalent. A continuation of the material covered in 301, 302, and 303 at a more advanced level.
- to
- 352:403-404-405 Advanced French Composition and Conversation. 3 credits each. Prerequisite, 303 or equivalent. A thorough analysis of syntax, morphology, phonetic principles and grammatical structure. Free composition and conversation on a wide variety of topics designed to improve the student's ability to speak and write idiomatic French.
- 352:407/507 French Literature of the Middle Ages to the 14th Century. 3 credits. Prerequisite, 303 or 307 or permission. Saint's lives, epics, courtly novels, chronicles, Renart sequences, theater. Ruteboeuf. Discussion based on modern French translations.
- to
- 352:407/507 French Literature of the Middle Ages to the 14th Century. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Reading, in modern translation, of such medieval works as the Chanson de Roland, other medieval epics, romans courtois, lais and the Roman de Renart. Class discussions and lectures. Conducted in French.
- 352:408/508 14th and 15th Century Medieval Literature and the Beginning of the Renaissance. 3 credits. Prerequisite, 303 or 307 or permission. Roman de la rose, Joinville, Froissard, Commynes, Charles d'Orleans, Francois Villon and the rhetoricians. Marot and Rabelais. Discussion based on modern French translations.
- to
- 352:408/508 French Literature of the 14th and 15th Centuries and of the Early Renaissance. Prerequisite, 303 or 307 or consent of Instructor. Reading, in modern translation, of medieval religious drama, secular drama, the poetry of Francois Villon, the poetry of Marot, the novels of Rabelais. Class discussions and lectures. Conducted in French.

CURRICULUM CHANGES, continued

- 352:409/509 Renaissance Literature. 3 credits. Prerequisite, 303 or 307 or permission. The Pleiade, theater, literature of the religious wars, Montaigne.
- to
- 352:409/509 French Literature of the Renaissance. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Reading, in modern translation, of works by Ronsard, Du Bellay, Montaigne and others. Class discussions and lectures. Conducted in French.
- 352:411/511 17th Century French Literature I. 3 credits. Prerequisite, 303 or 307 or permission. The literary movements of the classical period and their background.
- to
- 352:411/511 17th Century French Literature I. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. The literary movements of the classical period and their background. Malherbe and his literary doctrine. The early novel: Honore d'Urfe, Scarron, Furetiere. The theater of Corneille. Conducted in French.
- 352:412/512 17th Century French Literature II. 3 credits. Prerequisite, 303 or 307 or permission. Theater before Corneille, Corneille, Libertine movement, Pascal, Moliere.
- to
- 352:412/512 17th Century French Literature II. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Descartes, Pascal, the theater of Moliere, La Fontaine, Bossuet. Conducted in French.
- 352:413/513 17th Century French Literature III. 3 credits. Prerequisite, 303 or 307 or permission. La Fontaine, Bossuet, Racine, Boileau, La Rochefoucauld, La Bruyere, Fenelon.
- to
- 352:413/513 17th Century French Literature III. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. The theater of Racine, Boileau, Mme de Sevigne, La Bruyere, Mme de La Fayette, La Rochefaucauld, Fenelon. Conducted in French.
- 352:415/515 18th Century French Literature I. 3 credits. Prerequisite, 303 or 307 or permission. The legacy of Moliere and Racine; the beginning of the novel. Regnier, Le Sage, Marivaux, Abbe Prevost. The first assault: Bayle Fontenelle, Montesquieu.
- to
- 352:415/515 18th Century French Literature I. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. The legacy of Moliere and Racine; the beginning of the novel, Regnier, Le Sage, Marivaux, Abbe Prevost. The first assault on traditions: Bayle, Fontenelle, Montesquieu. Conducted in French.

CURRICULUM CHANGES, continued

- 352:416/516 18th Century French Literature II. 3 credits. Prerequisite, 303 or 307 or permission. Buffon, Diderot, and the Encyclopedists, Voltaire, the salons.
to
- 352:416/516 18th Century French Literature II. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Buffon, Diderot and the Encyclopedists, Voltaire, the salons. Conducted in French.
- 352:417/517 18th Century French Literature III. 3 credits. Prerequisite, 303 or 307 or permission. Rousseau, Beaumarchais, Choderlos de Laclos, literature of the Revolution.
to
- 352:417/517 18th Century French Literature III. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Rousseau, Beaumarchais, Choderlos de Laclos, literature of the Revolution. Conducted in French.
- 352:435/535 20th Century French Novel I. 3 credits. Prerequisite, 303 or 307 or permission. Proust, Gide, Martin du Gard, Romain, Duhamel and others.
to
- 352:435/535 20th Century French Novel I. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Proust, Gide, Martin du Gard, Romain, Duhamel and others. Conducted in French.
- 352:436/536 20th Century French Novel II. 3 credits. Prerequisite, 303 or 307 or permission. Rodiquet, Mauriac, Bernanos, Giono, Maurois and others.
to
- 352:436/536 20th Century French Novel II. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Rodiquet, Mauriac, Bernanos, Giono, Maurois and others.
- 352:437/537 20th Century French Novel III. 3 credits. Prerequisite, 303 or 307 or permission. Malraux, Saint-Exupery, Existentialism and new trends.
to
- 352:437/537 20th Century French Novel III. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Malraux, Saint-Exupery, Existentialism and new trends. Conducted in French.
- 352:491-492-493 Individual Reading in French. 1-3 credits each. Prerequisite, permission.
to
- 352:491-492-493 Individual Research in French Literature. 1-3 credits each. Prerequisite, consent of Instructor. Offered in accordance with student's needs.

CURRICULUM CHANGES, continued

- 352:603-604-605 Romance and Applied French Linguistics. 3 credits each. Studies in Romance Linguistics with particular emphasis on linguistic developments and methodology in French; application of essential linguistic principles in learning and teaching French.
- to
- 352:603-604-605 Romance and Applied Linguistics. 3 credits each. History of the French language from 842 to the present, syntactical analysis of French texts. Third quarter deals with the application of linguistic research to the teaching of French in secondary schools or in college.
- 352:607-608-609 Selected Topics in the Movement of French Ideas. 3 credits each. Ideas characteristic of various periods in French literature. The first quarter will focus on writers before 1750. Second and third quarter topics will be selected from 1750 to the present time. A formal report demonstrating the ability to use essential research techniques will be required in this course.
- to
- 352:607-608-609 Selected Topics in the Movement of Ideas in French Literature. 3 credits each. Ideas characteristic of various periods in French literature. The first quarter will focus on writers before 1750. Second and third quarter topics will be selected from 1750 to the present time. A formal report demonstrating the ability to use essential research techniques will be required.
- 352:431/531 Romanticism in French Literature. 3 credits. Prerequisite, 303 or 307 or permission. Lamartine, Hugo, Vigny, Musset, Nerval and others.
- to
- 352:419/519 19th Century French Literature I. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. French literature of the Romantic period: Chateaubriand, Madame de Stael, Stendhal, Balzac, Lamartine, Hugo, Musset, Vigny. Conducted in French.
- 352:432/532 The French Novel of the 19th Century. 3 credits. Prerequisite, 303 or 307 or permission. Stendhal, Balzac, Flaubert, Zola, Maupassant and others.
- to
- 352:420/520 19th Century French Literature II. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Realism and Parnassianism, Scribe, Gautier, Leconte de Lisle, Heredia, Flaubert. Conducted in French.
- 352:433/533 Parnassianism and Symbolism. 3 credits. Prerequisite, 303 or 307 or permission. Verlaine, Rimbaud, Mallarme, Lautreamont and others.
- to
- 352:421/521 19th Century French Literature III. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Naturalism and symbolism in prose and poetry. Verlaine, Rimbaud, Mallarme, Lautreamont, Laforgue, Becque, Maeterlinck, Zola and the naturalistic writers. Conducted in French.

CURRICULUM CHANGES, continued

- 352:439/539 20th Century French Theater and Poetry I. 3 credits. Prerequisite, 303 or 307 or permission. Apollinaire, Peguy, Claudel, Valery, Tarry, Romain, Salacrou.
- to
- 352:427/527 20th Century French Theater and Poetry I. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Apollinaire, Peguy, Claudel, Valery, Tarry, Romain, Salacrou. Conducted in French.
- 352:440/540 20th Century French Theater and Poetry II. 3 credits. Prerequisite, 303 or 307 or permission. Breton and surrealism, Eluard, Aragon, Supervielle, Cocteau, Giraudoux, Lenormand, Anouilh, and Montherlant.
- to
- 352:428/528 20th Century French Theater and Poetry II. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Breton and surrealism, Eluard, Aragon, Supervielle, Cocteau, Giraudoux, Lenormand, Anouilh, and Montherlant.
- 352:441/541 20th Century French Theater and Poetry III. 3 credits. Prerequisite, 303 or 307 or permission. Saint-John Perse, Michaux, Prevert, Char, Sartre, Camus, Beckett and Ionesco.
- to
- 352:429/529 20th Century French Theater and Poetry III. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Saint-John Perse, Michaux, Prevert, Char, Sartre, Camus, Beckett and Ionesco. Conducted in French.
- 325:615-616-617 Individual Reading and Research Seminar. 1-3 credits each. Special studies and methods of research.
- to
- 352:651-652-653 Individual Reading and Research Seminar. 1-3 credits each. Prerequisite, consent of Instructor. Private study and research in specific areas, with considerable reading of French texts in the area concerned, plus written reports in French and/or an intensive term paper.
- 352:611-612-613 Contemporary French Culture as Expressed in Literature. 3 credits each. An anthropological approach to culture emphasizing social and civic institutions, education, value systems, national characteristics, and historical perspectives. A study of major themes and patterns of French culture as they are consciously and unconsciously expressed in nineteenth and twentieth century literature.
- to
- 352:619-620-621 French Culture as Expressed in Literature. 3 credits each. An anthropological approach to French culture emphasizing social and civic institutions, education, value systems, national characteristics, and historical perspectives. A study of major themes and patterns of French culture as they are expressed in the mainstream of French literature.

CURRICULUM CHANGES, continued

352:401	<u>French Phonetics.</u> 1 credit. Prerequisite, 203 or equivalent. Intensive drill in pronunciation with correction and improvement of student's accent, emphasis on articulation and intonation by use of phonograph records and individual tape recordings made by the student.
352:401	to <u>French Phonetics.</u> 3 credits. Prerequisite, 203 or equivalent. Intensive drill in pronunciation with correction and improvement of student's accent, emphasis on articulation, intonation and rhythm.
358:605	<u>Seminar in Hispanic Linguistics.</u> 5 credits.
358:605-606	to <u>Seminar in Hispanic Linguistics.</u> 3 credits each.

Change the description of the Spanish undergraduate major only from:

1. The General Studies.
 2. Completion of 36 credits above the second year (200) level including at least 15 hours in 300 and 400 numbered language skill courses and at least 15 hours in literature and/or culture and/or linguistics courses.
 3. Certification Requirements: Students to be certified in foreign language teaching must complete at least six of the required credits in language skills during their senior year.
- to
1. The General Studies.
 2. Completion of 36 credits above the second year (203) level.

Add:	352:207-208-209	<u>Intermediate French I, II, III Reading Option.</u> 3 credits each. Sequential. Prerequisite, 103 or equivalent. Reading and translation of texts dealing with contrasting French and American customs, values, and attitudes. A placement test is required of every student who did not complete 103 or the equivalent.
	352:211/311	<u>Individual Summer Study Abroad.</u> 3 credits. Prerequisite, 202 or equivalent and consent of Instructor. Individual Summer Study Abroad projects under this code number may be recognized as equivalent to 352:203, or to one quarter of <u>French Composition and Conversation</u> or to one quarter of <u>French Culture and Civilization</u> .
	352:250	<u>Masterpieces of the Twentieth Century French Novel in Translation.</u> 3 credits. No prerequisite. Reading and discussion of the works of Proust, Gide, Saint-Exupery, Malraux, Sartre, Camus, Sarraute. May not be taken for credit toward the major in French.
	352:251	<u>Masterpieces of Twentieth Century French Theater in Translation.</u> 3 credits. No prerequisite. Reading and discussion of the works of Giraudoux, Anouilh, Montherlant, Sartre, Camus, Ionesco, Beckett, de Ghelderode. May not be taken for credit toward the major in French.

CURRICULUM CHANGES, continued

- 352:450 Explication de textes. 3 credits. Prerequisite, 303 or 307 or consent of Instructor. Study of the traditional French method of literary analysis based on passages of representative authors from selected periods of French literary history.
- 353:207-208-209 Intermediate German I, II, III Reading Options. 3 credits each. Sequential. Prerequisite, 103 or equivalent and permission. Reading of German texts in culture and civilization, discussion in English, translation and grammatical analysis where appropriate. Not open to majors.
- 353:406-407-408 German Culture and Civilization. 3 credits each. Prerequisite, 303 307 or equivalent. Particular emphasis on the customs, traditions, literary trends, and artistic tendencies that constitute Germany's contribution to Western Civilization.
- 355:207-208-209 Intermediate Italian I, II, III Reading Option. 3 credits each. Sequential. Prerequisite, 103 or equivalent. The readings will cover various aspects of Italian culture through the centuries, with particular emphasis on history, literature, art, and the contemporary Italian way of life as compared with the American one. Review of grammar to the extent necessary for an accurate understanding of the texts.
- 355:250 Genius of Italian Literature in Translation. 3 credits. No prerequisite. Reading and discussion of works of Dante, Petrarca, Boccaccio, Ariosto, Macchiavelli, Cellini, Tasso, Bruno, Pirandello, De Filippo.
- 357:207-208-209 Intermediate Russian I, II, III Reading Option. 3 credits each. Sequential. Prerequisite, 103 or equivalent. Reading of texts in Russian dealing with the culture of Russian-speaking people. Discussion of the content of these texts in English along with a review of grammar to the extent necessary for an accurate understanding of the texts. Not open to majors.
- 358:207-208-209 Intermediate Spanish I, II, III Reading Option. 3 credits each. Sequential. Prerequisite, 103 or equivalent. By permission only. Reading of texts in Spanish dealing with the culture of Spanish-speaking people. Discussion of the content of these texts in English along with a review of grammar to the extent necessary for an accurate understanding of the texts. Not open to majors.
- 358:211/311 Spanish-Spanish American Cultural Experience. 1-3 credits. Prerequisite, faculty permission. A student's residence and/or independent study in a Spanish speaking country which results in demonstrable assimilation of the country's culture may earn a maximum of three hours of credit. The student's success in attaining prescribed levels of cultural knowledge and insights and the overall educational value of the student's experience of living abroad will be measured and evaluated by the faculty.

CURRICULUM CHANGES, continued

Department of Political Science

Change: Paragraph (B) of "Additional Requirements" for the Master of Arts Degree in Political Science to read:

"B. Each student will be required to take 370:640 and either 370:503 or 370:600. In addition, each student must take one course or seminar in each of the three subfields of Comparative Politics, American Politics, and International Politics."

370:323 East Asian Politics. 4 credits.

to

370:323 Politics of China and Japan. 4 credits. Prerequisite, 200. An examination of the governmental structures and political processes of China and Japan.

370:380 Urban and Regional Politics. 3 credits.

to

370:380 Metropolitan Politics. 5 credits.

Drop: 370:695 Scope and Methods in Political Science. 5 credits.

Add: 370:375 The Federal Bureaucracy. 5 credits. Prerequisite, 370:100 or 370:150. Study of political conflict and cooperation in the executive branch, with emphasis on bureaucratic influence in policy-making. Specific attention will be paid to problems of Presidential and Congressional control, internal organization and decision-making, public relations, and state-federal relations.

Department of Polymer Science

Change: General Bulletin description to show no language requirement. Corrected version to read as follows:

Requirements for the Master of Science Degree in Polymer Science:

A minimum of 36 credits in appropriate courses in Biology, Chemistry, Mathematics, Physics, Polymer Science, and Engineering, as prescribed by the student's advisory committee. The research project (enrollment in 394:691) and resulting thesis provide the nine additional credits required for the degree. Attendance at and participation in seminar-type discussions scheduled by the department are required.

Department of Psychology

Change: 375:790 Dissertation Research. 2-20 credits.

to

375:790 Dissertation Research. 2-20 credits. Required minimum - 20 credits. Minimum 20 credits, maximum subject to departmental approval - open to properly qualified students. Supervised research on a topic deemed suitable by the dissertation committee.

CURRICULUM CHANGES, continued

Department of Urban Studies

- Add: 398:650-651 Selected Topics in Urban Planning. 4 credits each. Prerequisite, by permission. A comprehensive analysis on the micro and macro level of selected topics in specific areas of Urban Planning Topics may include urban design, housing or other areas related to planning.
- 398:652-653 Selected Topics in Urban Development. 4 credits each. Prerequisite, by permission. An analysis of selected topics in the processes and forms of the development of cities. Selected topics will be drawn from the economic, political, social and cultural development of cities and will concentrate on one or more urban institutions.
- 398:654-655 Selected Topics in Urban Policy and Administration. 4 credits each. Prerequisite, by permission. A consideration of issues surrounding specific urban policy. Selected topics may include public welfare, intergovernmental financial aid, or other appropriate policy issues.

COLLEGE OF ENGINEERINGDepartment of Chemical Engineering

- Add: 420:794 Advanced Seminar in Chemical Engineering. 1-5 credits. Prerequisite, permission of Department Head. Advanced projects, readings and other studies in various areas of chemical engineering. Intended for students seeking the Ph.D. in Engineering degree. May be repeated up to a maximum of 9 credits.

Department of Civil Engineering

- Add: 430:794 Advanced Seminar in Civil Engineering. 1-5 credits. Prerequisite, of Department Head. Advanced projects, readings and other studies in various areas of civil engineering. Intended for students seeking the Ph.D. in Engineering degree. May be repeated up to a maximum of 9 credits.

Department of Electrical Engineering

- Change: 440:234 Circuits II. 3 credits (3-0). Delete "Corequisite, 445:331".
- 440:321 Physical Electronics L. 3 credits (3-0).
to
- 440:421 Physical Electronics I. 3 credits (3-0).
- 440:446 Communication Theory I. 3 credits (3-0). Prerequisite, 445 or consent of Instructor.
to
- 440:446 Communication Theory I. 3 credits (3-0). Prerequisite, 445 and permission.

CURRICULUM CHANGES, continued

- 440:461 Computer Circuitry I. 3 credits (3-0).
 to
440:461 Computer Circuitry I. 4 credits (3-1).
- 440:681 Steady State Analysis of Power Systems. 3 credits (3-0). Pre-
 requisite, 481/581.
 to
440:681 Steady State Analysis of Power Systems. 3 credits (3-0). Pre-
 requisite, 680.
- 440:682 Transient Analysis of Power Systems. 3 credits (3-0). Prere-
 quisite, 481/581.
 to
440:682 Transient Analysis of Power Systems. 3 credits (3-0). Prere-
 quisite, 680.
- 440:630 Linear Circuit Analysis. 3 credits (3-0). Prerequisite, 438/538.
 Use of pole-zero and matrix methods in circuit analysis.
 to
440:630 Linear Circuit Analysis. 3 credits (3-0). Prerequisite, graduate
 standing. Generalized operational methods, time domain analysis,
 state variable methods and matrix techniques applied in circuit
 analysis.
- 440:631 Network Synthesis I. 3 credits (3-0). Prerequisite, 538.
 to
440:631 Network Synthesis I. 3 credits (3-0). Prerequisite, 630.
- 440:646 Critical Aspects of Measurements. 3 credits (3-0). Prerequisite,
 538 or permission.
 to
440:646 Critical Aspects of Measurements. 3 credits (3-0). Prerequisite,
 630.
- 440:647 Statistical Communication I. 3 credits (3-0). Prerequisite, 445 or
 676 or permission of Instructor.
 to
440:647 Statistical Communication I. 3 credits (3-0). Prerequisite, 445 or
 643 or permission.
- 440:654 Advanced Electromagnetic Fields. 3 credits (3-0). Prerequisite,
 453/553.
 to
440:654 Advanced Electromagnetic Fields. 3 credits (3-0). Prerequisite,
 653.
- 440:656 Advanced Antenna Theory. 3 credits (3-0). Prerequisite, 553 or
 equivalent.
 to
440:656 Advanced Antenna Theory. 3 credits (3-0). Prerequisite, 653.

CURRICULUM CHANGES, continued

- 440:675 Non-Linear Control Theory. 3 credits (3-0). Prerequisite, 604.
to
- 440:675 Non-Linear Control Theory. 3 credits (3-0). Prerequisite, 674.
- 440:776 Optimal Control I. 3 credits (3-0). Prerequisite, 674, 675.
to
- 440:776 Optimal Control I. 3 credits (3-0). Prerequisite, 674.
- 440:771 Discrete Control Systems. 3 credits (3-0). Prerequisite, 674.
to
- 440:671 Discrete Control Systems. 3 credits (3-0). Prerequisite, 674 and
473/573 or permission.
- 440:772 Systems Analysis. 3 credits (3-0). Prerequisite, 676
to
- 440:672 Systems Analysis. 3 credits (3-0). Prerequisite, 643.
- 445:160 Computer Science I. 3 credits (3-0).
to
- 445:206 Fortran Programming for Scientists and Engineers. 3 credits (3-0).
- 445:202 Cobol Programming. 3 credits (3-0). Prerequisite, 110:211 or
equivalent.
to
- 445:202 Cobol Programming. 3 credits (3-0). Prerequisite, Business major
or permission.
- 445:220 Analog Computers. 3 credits (2-1). Prerequisite, 440:233 or 331.
Corequisite, 345:236.
to
- 445:320 Analog Computers. 3 credits (2-1). Prerequisite, 440:233, and
345:236 or 440:331. (No corequisite)
- 445:260 Computer Science II. 3 credits (3-0).
to
- 445:306 Introduction to Assembly Language Programming. 3 credits (3-0).
Prerequisite, 206. Introduction to programming on machine and as-
sembly language levels. Symbolic coding and assembly systems.
Macros, Debugging Procedures.
- 445:301 Computer Fundamentals. 3 credits (3-0).
to
- 445:201 Introductory Fortran Programming. 3 credits (3-0).
- 445:360 Computer Science III. 3 credits (3-0).
to
- 445:407 Introduction to Systems Programming. 3 credits (3-0). Prerequisite,
306. Introduction to machine organization, operating systems, job
control language, loaders, and assemblers.

CURRICULUM CHANGES, continued

	445:331	<u>Computer Methods in Science and Engineering.</u> 3 credits (3-0). to
	445:461	<u>Computer Methods in Science and Engineering.</u> 3 credits (3-0).
	445:631	<u>System Simulation on Digital Computers.</u> 3 credits (3-0). Pre-requisite, 236, some computer programming and permission. to
	445:631	<u>System Simulation on Digital Computers.</u> 3 credits (3-0). Pre-requisites, 345:236, some computer programming and permission.
	445:660	<u>Computer Application I.</u> 3 credits (3-0). Prerequisite, 160 and 345:236. to
	445:660	<u>Computer Application I.</u> 3 credits (3-0). Prerequisite, 206 and 345:236.
Drop:	440:538	<u>Circuits VI.</u> 3 credits (3-0).
	440:443/543	<u>Data Analysis.</u> 3 credits (3-0).
	440:553	<u>Electromagnetic Fields III.</u> 3 credits (3-0).
	440:561	<u>Computer Circuitry I.</u> 3 credits (3-0).
	440:481/581	<u>Symmetrical Components II.</u> 3 credits (3-0).
	440:486/586	<u>Advanced Electrical Machinery.</u> 3 credits (3-0).
Add:	440:382	<u>Introduction to Electric Power.</u> 3 credits (2-1). Prerequisite, 233 and permission of Instructor. Sources of energy; steam and hydro-electric generating stations and auxiliaries; transmission of electric power; power systems protection; lightning phenomenon; power distribution. The course involves visits to generating stations, substations, and manufacturing plants in Ohio, Pennsylvania, and New York.
	440:426	<u>Introduction to Lasers.</u> 3 credits. Prerequisite, 336, 352. Introduction to the basic concepts of maser (laser) action; emission processes and their roles in laser action; types of lasers; presentation of generalized operating criteria.
	440:444	<u>Communication Systems Analysis.</u> 3 credits (3-0). Prerequisite, 351, 367. Communications systems and equipment; noise, modulation; antennas and propagation; repeater, telemetry and navigational systems and equipment.
	440:448	<u>Radar System Engineering.</u> 3 credits (3-0). Prerequisite, 352, 359, 366. Introduction to the basic concepts of radar and the underlying principles; followed by discussion of the general problems involved in the implementation of those principles; specific types of radar systems.
	440:487	<u>Electric Energy System Theory I.</u> 3 credits (3-0). Prerequisite, 480, 371. Corequisite, 337, or permission. Fundamental concepts of electric power systems and definitions for energy conversion devices therein; system models, load flow analysis, and basic operational features; computer solutions.

CURRICULUM CHANGES, continued

- 440:488 Electric Energy System Theory II. 3 credits (3-0). Prerequisite, 487. Energy systems under abnormal conditions; optimum dispatch and control; faults; stability theory; computer solutions.
- 440:643 Signal and Data Analysis. 3 credits (3-0). Prerequisite, 341 or by consent of Instructor. Analysis, interpretation, and smoothing of engineering data through application of statistical methods. Introduction to probability concepts.
- 440:653 Electromagnetic Fields. 3 credits (3-0). Prerequisite, graduate standing. Introduction to advanced electromagnetic concepts at the graduate level.
- 440:680 Symmetrical Components II. 3 credits (3-0). Prerequisite, 480/580. Simultaneous faults on symmetrical power systems. Positive, negative, and zero sequence impedance calculations of apparatus and lines.
- 440:686 Advanced Electrical Machinery. 3 credits (3-0). Prerequisite, 484. Advanced topics relative to reactances and transient performance of electrical machinery.
- 445:432 Introduction to System Simulation. 3 credits (3-0). Prerequisite, 331. Problem formulation, modeling, solution techniques, analysis and interpretation of results; statistical techniques, simulation languages; applications.
- 445:794 Advanced Seminar in Computer Science. 1, 2, 3 credits. Prerequisite, permission of department head. Advanced level coverage of various topics. Intended for students seeking the Ph. D. in Engineering. May be taken more than once.

Department of Mechanical Engineering

- Add: 460:794 Advanced Seminar in Mechanical Engineering. 1-6 credits. Prerequisite, permission of Department Head. Advanced projects and studies in various areas of mechanical engineering. Intended for students seeking the Ph. D. in Engineering degree. May be repeated up to a maximum of 9 credits.

COLLEGE OF EDUCATION

- Drop: 520:265 and 266 Comprehensive Musicianship for Elementary Classroom Teachers I and II. 3 credits each.
- 520:631 Elementary School Administration. 3 credits.
- 530:620 Secondary School Administration. 3 credits.
- 570:810 Field Experience for the Superintendent. 3 credits.
- 570:811 Field Experience for Supervisors. 3 credits.

CURRICULUM CHANGES, continued

Add:	520:365	<u>Comprehensive Musicianship for Elementary Classroom Teachers I.</u> 3 credits. Designed to afford prospective classroom teachers the opportunity to develop their individual capacity for musical expression and the technique for teaching elementary musical concepts. *
	520:366	<u>Comprehensive Musicianship for Elementary Classroom Teachers II.</u> 3 credits. Prerequisite, 365. A continuation of 365 in the integration development of individual musical expression and teaching techniques. *
	570:620	<u>Secondary School Administration.</u> 3 credits. Prerequisite, 570:601. Problems, procedures and principles of organization and administration in secondary schools. *
	570:621	<u>Field Experience for the Secondary School Administrator.</u> 1-3 credits (may be repeated for a total of 3 credits). On the job experience in a public school system working with administrators and/or supervisors. *
	570:631	<u>Elementary School Administration.</u> 3 credits. Prerequisite, 570:601. Problems, procedures and principles of organization, administration and supervision in elementary schools. *
	570:641	<u>Field Experience for the Superintendent.</u> 3 credits. Prerequisite, completion of most course work in program requirements. Designed to help students who are preparing for the superintendency to gain experience in those task areas which are in the direct responsibility of the superintendent. Students work directly in a central office position under the direction of an experienced administrator. Their tasks will constitute administrative exercises cooperatively developed by the university, the supervising administrator and the student. *
	570:651	<u>Field Experience for Supervisors.</u> 3 credits. Prerequisite, completion of all course work except research problem. Designed to help students test and develop understandings and skills in supervision. Students will participate in selected task areas which reflect supervisory responsibilities. The tasks will be developed cooperatively by the appropriate school administrator, college advisor, and student. *
	570:661	<u>Field Experience for the Elementary Administrator.</u> 1-3 credits (may be repeated for a total of 3 credits). On the job experience in a public school system working with administrators and/or supervisors. *

*Effective Summer Session I, 1973.

COLLEGE OF BUSINESS ADMINISTRATIONDepartment of Finance

Drop:	640:386	<u>International Finance.</u> 5 credits.
Add:	640:400	<u>Investing in Real Estate.</u> 5 credits. Prerequisite, 640:371. Real Estate: A study in real estate decision-making and analyses of real estate problems. Examines the environment and variables of the associated decision-making process, its background, the specialists on decision-making, with an emphasis on the purchase and financing decisions.

CURRICULUM CHANGES, continued

Change: The Bulletin description on MBA requirements should be changed to the following:

1. Required of all MBA students:

620:610	<u>Accounting Management and Control</u>	5 credits
640:650	<u>Administering Costs and Prices</u>	5 credits
640:655	<u>Government and Business</u>	5 credits
640:674	<u>Financial Management and Policy</u>	5 credits
650:640	<u>Quantitative Methods in Operations Management</u>	4 credits
650:663	<u>Industrial Relations</u>	3 credits
650:668	<u>Administrative Behavior and Methods</u>	3 credits
650:669	<u>The Leadership Role in Organization</u>	3 credits
660:660	<u>Marketing Management and Policy</u>	4 credits
		<u>37 credits</u>

2. Additional requirements for the various MBA concentrations:

A. Required of MBA students concentrating in Accounting:

620:637	<u>Advanced Accounting Theory</u>	5 credits
620:698	<u>Seminar in Accounting</u>	5 credits
	Approved Electives	5 credits

B. Required of MBA students concentrating in Finance:

640:698	<u>Seminar in Finance</u>	5 credits
	Approved Electives	10 credits

C. Required of MBA students concentrating in Management:

650:670	<u>Organizational Theory and Policy Formulation</u>	3 credits
650:698	<u>Seminar in Management</u>	5 credits
	Approved Electives	7 credits

D. Required of MBA students concentrating in Marketing:

660:699	<u>Seminar in Marketing</u>	4 credits
	Approved	11 credits

E. Required of MBA students concentrating in International Business:

660:629	<u>International Business Enterprise</u>	4 credits
660:689	<u>Seminar in International Business</u>	4 credits
	Approved Electives	7 credits

Prior to graduation, the student concentrating in International Business must demonstrate a reading and conversational proficiency in one language other than English by one of the following methods:

- a. Certification by Modern Languages Department of The University of Akron.
- b. Presentation of earned college credits in such a language, averaging "C" or better, through two academic years (four semesters or six quarters).

CURRICULUM CHANGES, continued

COLLEGE OF FINE AND APPLIED ARTS

Change: Revised Item 1. of Degree Requirements

Requirements for Baccalaureate Degrees

1. Electives included in the 192 credits of total work required for the degree may consist of any courses offered for credit in the University's four-year degree programs, provided that the prerequisites as set forth in this Bulletin are met, and further provided that not more than two credits of physical education activities, twelve of applied music, or six of music organizations are included. (Credit limitations on applied music and music organizations do not apply to the Bachelor of Music degree.) While credits from another institution or college may be accepted, their application toward graduation will depend upon the nature of the student's intended program of study.

Department of Art

Add: 710:499 Honors in Art. 2-5 credits (may be repeated for a total of 12 credits). To be used for research into the honors program established by the student and his advisor(s).

Honors Program

710:403, 404, 405 History of Art Seminar. 3 credits each (may be repeated for a total of 12 credits). Prerequisite, permission of Head of Department. A restricted field of study to be selected.

To be used for the completion of a written honors research project.

710:440 Studio Problems. 2-5 credits (may be repeated for a total of 12 credits). Prerequisite, senior standing or permission. Investigation in depth of aesthetic and technical problems within a student-selected area of specialization. Course may be elected several times with content indicated by letter: A. Printmaking, B. Sculpture, C. Painting-Drawing, D. Design (Emphasis in Interior Design, Crafts, or Ceramics), E. Communication Graphics.

To be used for the completion of an honors studio project.

710:499 Honors in Art. 2-5 credits (may be repeated for a total of 12 credits). To be used for research into the honors program established by the student and his advisor(s).

Program Requirements:

As a participant in the honors program, the student must complete a minimum of eighteen credits of honors work, to be divided in such a way that not more than twelve credits are received in either course work (710:499) or research project (710:440 or 710:403, 404, 405). Thus, the maximum number of credits possible would be 24.

The student must complete some written or studio project, and earn an average grade of B or better in all honors work attempted.

CURRICULUM CHANGES, continued

Department of Home Economics

Change:	740:123	<u>Clothing Construction.</u> 4 credits. to
	740:123	<u>Clothing Construction.</u> 3 credits.
	740:201	<u>Modern Family.</u> 5 credits. to
	740:201	<u>Relational Patterns in Marriage and Family.</u> 5 credits. Study of interaction in various family life styles with emphasis on changing roles, developmental tasks, family life cycles and socio-economic and cultural influence upon the individual and family.
	740:262	<u>Home Management.</u> 3 credits. to
	740:362	<u>Home Management.</u> 3 credits.
	740:305	<u>Tailoring.</u> 4 credits. to
	740:305	<u>Tailoring.</u> 3 credits. Prerequisite, 740:304
	740:306	<u>Flat Pattern.</u> 4 credits. to
	740:306	<u>Flat Pattern.</u> 3 credits. Prerequisite, 740:305.
	740:401/501	<u>Family Life Patterns in the Culturally Deprived Home.</u> 3 credits. to
	740:401/501	<u>Family Life Patterns in the Economically Deprived Home.</u> 3 credits. A visually saturated study of family life orientation and life style patterns among the economically deprived with an emphasis on the impact of socio-economic and psychological deprivation on family members throughout the family life cycles.
Drop:	740:143	<u>Food and Nutrition.</u> 4 credits.
	740:407	<u>Seminar in Clothing and Textiles.</u> 3 credits.
Add:	740:304	<u>Advanced Clothing.</u> 3 credits. Prerequisite, 740:123. Advanced theory and methodology of garment construction with emphasis on custom dressmaking techniques, new fabrics. Analysis of special construction techniques and alteration problems for patterns and ready-to-wear.
	740:485	<u>Seminar in Home Economics.</u> 2-5 credits (may be repeated for a total of 10 credits). Prerequisite, permission. Exploration and evaluation of current developments, research trends and implications in specified areas of home economics. Intensive investigation of problematic areas as related to changing role of the profession and changing society. Problematic concern will be announced and described as offered.

CURRICULUM CHANGES, continued

Department of Music

- Change: 750:371 Analytical Techniques in Music. 3 credits.
to
750:371 Analytical Techniques I. 3 credits. Prerequisites, 750:251, 252, and 253. Techniques for the analysis of musical scores from all eras of western music history, with major emphasis placed upon works of the Baroque, Classical and Romantic periods. Analytical techniques involve the study of the musical parameters of pitch, duration, timbre and intensity as well as an analysis of form and texture and a knowledge of the harmonic language of a musical score.
- Drop: 750:372 History and Pedagogy of Theory in Music. 3 credits.
750:373 Twentieth Century Music: History and Style. 3 credits.
- Add: 750:374 Analytical Techniques II. 3 credits. Prerequisite, 750:371.
Analytical Techniques II is a continuation of 750:371.
- 750:471 Counterpoint. 3 credits. Prerequisite, permission of the Instructor. Designed to give the student of theory-composition the necessary knowledge and skills for understanding the contrapuntal practices and procedures of various style periods. Music for analysis will focus upon the vocal counterpoint of the Renaissance, the instrumental counterpoint of the late Baroque, and contrapuntal practice in the nineteenth and twentieth centuries. Major composers from each period will be represented.
- 750:472 Advanced Orchestration. 3 credits. Prerequisite, 750:454. The study of techniques of orchestration and orchestral style as found in major works from the classical orchestra of Haydn and Mozart through the modern orchestra of Stravinsky, Bartok, Berg, and Schoenberg.

Department of Speech and Theatre Arts

- Change: 780:344 Public Discussion and Group Procedures. 3 credits.
to
780:344 Public Discussion. 4 credits.
- 780:454/554 Group Processes and Conference Leadership. 3 credits.
to
780:454/554 Group Processes and Conference Leadership. 4 credits.
- 780:490/590 Rhetorical Criticism. 4 credits.
to
780:490/590 Introduction to Analysis of Public Discourse. 4 credits.
- 780:684 Studies in Communication Research. 3 credits.
to
780:684 Survey of Communication Theory. 3 credits.

CURRICULUM CHANGES, continued

	780:468/568	<u>Children's Theatre Workshop.</u> 4 credits.
		to
	780:468/568	<u>Children's Theatre Workshop.</u> 4 credits (may be repeated for a total of 8 credits).
	780:439	<u>Speech and Theatre Arts Practicum.</u> 1-12 credits.
		to
	780:439	<u>Speech and Theatre Arts Practicum.</u> 1-18 credits (may be repeated for a total of 18 credits).
	780:605	<u>Graduate Research in Speech and Theatre Arts.</u> 3 credits (may be repeated for a total of 6 credits).
		to
	780:605	<u>Graduate Research in Speech and Theatre Arts.</u> 3 credits (may be repeated for a total of 9 credits).
Drop:	780:243	<u>Parliamentary Procedure.</u> 2 credits.
	780:354	<u>Theories of Applied Semantics.</u> 3 credits.
	780:484	<u>Speech Communication Research II.</u> 3 credits.
	780:693	<u>Critical Studies in British Public Address.</u> 3 credits.
	780:381	<u>Broadcasting Media.</u> 4 credits.
Add:	780:410	<u>Organizational Communication.</u> 4 credits. An introduction to the communication problems inherent in a complex organization. Each student will (1) design a communication study of a complex organization, (2) implement this design through an actual organization and (3) report findings and draw conclusions about the communication structure of that organization.
	780:483	<u>Survey of Broadcast Station Departments.</u> 4 credits. Prerequisites, 780:282 and 283 or permission. This course is designed to give the senior student an understanding of the several departments in a radio/television station; how they function, how they relate to one another, and how each contributes to program development.
	780:601	<u>Introduction to Quantitative Research in Speech Communication.</u> 4 credits. Prerequisite, 345:571. Corequisite, 345:572. This course is designed to introduce graduate students in the Theatre and the Communication Arts to the application of empirical and statistical methods to their field of study. The course presents basic principles of design and execution in quantitative studies of the variables pertinent to aesthetic and public discourse.
	780:606	<u>Communication Problems in the Basic Speech Course.</u> 1 credit. This course is designed to train graduate students in the methods and materials of the introductory speech course. Required of all teaching graduate assistants.
	780:610	<u>Seminar in Communication Problems.</u> 3 credits (may be repeated for a total of 6 credits). This course examines major areas of concern in communication theory and practice. Instruction emphasizes concentrated research in organizational communication, psychology of the audience, and cross-cultural communication.

CURRICULUM CHANGES, continued

COLLEGE OF NURSING

Change:	820:471	<u>Seminar in Nursing.</u> 8 credits. Prerequisites, 820:321-322-323, 331-332-333, 341 and 451.
		to
	820:471	<u>Seminar in Nursing.</u> 8 credits. Prerequisites, 820:321-322-323, 331-332-333.

Requirements for enrollment in the sophomore year (third paragraph) as presented in the 1971-72 University Bulletin, page no. 114, revised as follows:

Acceptance for enrollment in the sophomore course 820:273 General Nursing in the fall quarter of the sophomore year, students in the track of nursing must receive written approval from the Dean of the College of Nursing; complete a minimum of forty-eight (48) credit hours with a cumulative 2.0 (C) quality point ratio; and maintain a 2.0 (C) quality point ratio or higher in the courses prerequisite to 820:273 General Nursing.

COMMUNITY AND TECHNICAL COLLEGEProposed 278: Physical Therapy Technology

<u>First Year</u>		<u>Second Year</u>		
<u>First Quarter</u>		<u>Crs.</u>	<u>First Quarter</u>	<u>Crs.</u>
202:118	<u>English</u>	4	202:240 <u>Human Relations</u>	4
310:147	<u>Anatomy & Physiology</u>	3	292:151 <u>Physics; Mechanics</u>	4
278:101	<u>Intro to Physical Therapy</u>	3	278:223 <u>Phys. Therapist Assist. Proc. III</u>	4
278:100	<u>Basic Proced. In Medical Assist.</u>	4	278:232 <u>Clin. Appl. II</u>	2
110:	<u>Physical Education</u>	1	Elective	2
		15		16
<u>Second Quarter</u>			<u>Second Quarter</u>	
202:120	<u>English</u>	3	202:242 <u>Amer. Urban Soc.</u>	4
202:131	<u>Math Analysis I</u>	3	292:152 <u>Physics; Electricity & Magnetism</u>	3
310:148	<u>Anatomy & Physiology</u>	3	278:224 <u>Phys. Therapist Assist. Proc. IV</u>	4
278:121	<u>Phys. Therapist Assist. Proc. I</u>	4	278:233 <u>Clin. Appl. III</u>	2
110:	<u>Physical Educ.</u>	1	278:240 <u>Pathological Cond.</u>	3
	Elective	2		
		16		16
<u>Third Quarter</u>			<u>Third Quarter</u>	
310:149	<u>Anatomy & Physiology</u>	3	278:225 <u>Phys. Therapist Assist. Proc. V</u>	4
278:122	<u>Phys. Therapist Assist. Proc. II</u>	4	278:234 <u>Clin. Applic. IV</u>	6
202:132	<u>Math Analysis II</u>	4	Electives	6
278:131	<u>Clinical Appl. I.</u>	2		
555:319	<u>Community Hygiene</u>	4		
		17		16

TOTAL CREDITS - 96

Recommended Electives: 226:278
254:150

Techniques of Community Work
Beginning Typewriting

CURRICULUM CHANGES, continued

Add:	278:100	<u>Basic Procedures In Medical Assisting.</u> 4 credits (3-1). Techniques basic to all areas of medical assisting. Emergency treatment of burns, bleeding injuries, fractures, loss of consciousness, cessation of heartbeat and breathing. Techniques of bandaging, aseptic procedures and isolation. Transfer of injured or ill patients and their proper positioning. Monitoring of vital signs.
	278:101	<u>Introduction to Physical Therapy.</u> 3 credits (3-0). History of Physical Therapy. 3 credits (3-0). History of Physical Therapy and survey of treatment procedures. Role and rationale for the Physical Therapist Assistant. Legal and ethical responsibilities.
	278:121	<u>Physical Therapist Assisting Procedures I.</u> 4 credits (3-1). Prerequisite, 100, 101. Beginning skills in Physical Therapy. Preparation for treatment. Major emphasis on medical massage. Range of motion exercises and use of the tilt table.
	278:122	<u>Physical Therapist Assisting Procedures II.</u> 4 credits (3-1). Prerequisite, 121, continuation of 278:121. Therapeutic application of heat. This includes moist heat, hydrotherapy and radiant heat.
	278:131	<u>Clinical Application I.</u> 2 credits (0-2). Corequisite, 122. Application of learned skills to patients in an affiliated hospital.
	278:223	<u>Physical Therapist Assisting Procedures III.</u> 4 credits (3-1). Prerequisite, 131, continuation of 278:121 and 122. Continuation of the therapeutic application of heat. Cold application. Peripheral vascular pump. Lung (postural) drainage.
	278:224	<u>Physical Therapist Assisting Procedures IV.</u> 4 credits (3-1). Prerequisite, 223. Assisted ambulation. Utilization of orthotics, prosthetics, and ambulation aids. Introduction to exercise theory and gait. Activities of daily living.
	278:225	<u>Physical Therapist Assisting Procedures V.</u> 4 credits (3-1). Prerequisite, 224. Traction, specific exercise routines, situational problems. Clerical procedures. Introduction to the Physical Therapists' evaluative techniques.
	278:232	<u>Clinical Application II.</u> 2 credits (0-2). Corequisite, 223; prerequisite, 131. Application of learned skills to patients in an affiliated hospital.
	278:233	<u>Clinical Application III.</u> 2 credits (0-2). Corequisite; 224 and 240; prerequisite, 232. Application of learned skills to patients in an affiliated hospital.
	278:234	<u>Clinical Application IV.</u> 6 credits (0-6). Corequisite, 225; prerequisite, 233 and 240. Application of learned skills to patients in an affiliated hospital.

CURRICULUM CHANGES, continued

278:240 Pathological Conditions. 3 credits (3-0). Corequisite, 224 and 233. Most frequent diagnosis of patients receiving physical therapy. Central and peripheral nervous system diseases. Genetic traits leading to disease. Degenerative and skin diseases. Burns, fractures, lung and heart disease.

ACADEMIC CENTERSAfro-American Studies Program

Add 1010:401 General Seminar in Afro-American Studies. 4 credits. Prerequisite, 340:220 or permission. The exploration and intensive examination of a variety of issues related to role and minority group relations which normally stand outside the compass of any one subject matter area.

Environmental Studies

Change: 310:183 Man and the Environment. 3 credits.
to

1030:201 Man and the Environment. 3 credits.

Add: 1030:401 Seminar in Environmental Studies. 3 credits. The Seminar will cover a specific environmental topic or topics from an interdisciplinary viewpoint each quarter. The topics selected will be of current interest and will be studied from varying viewpoints. The Environmental Studies Director will coordinate the course and resource persons will be drawn from the University and the surrounding community.

Certificate Program in Environmental StudiesRecommendation:

Effective with the beginning of the next academic year, 1973-74, a Certificate in Environmental Studies be established.

Program Description

I - Entrance requirements:

To qualify for the Certificate Program, a student must be in good academic standing with his major department and submit to the director a written request for admission to the program. The request will outline the student's reasons and goals for enrolling in the program.

II - Course requirements:

The undergraduate student will take a minimum of six courses from a list approved by the Committee on Environmental Studies. Two of these courses will be 1030:201 and 1030:401.

The student will be required to select courses from areas other than his major since the purpose of the program is to broaden his background. It is expected that he will select courses from at least two disciplines.

CURRICULUM CHANGES, continued

The student's plan of study for this certificate will be developed in consultation with his Environmental Studies Advisor and if the advisor is other than the Environmental Studies Director, will be approved by the Director.

An interdisciplinary research paper or project is required of all students in the program. The paper or project will be undertaken in conjunction with the Environmental Seminar.

Courses for the Environmental Studies Certificate

310:271	<u>General Ecology</u>	4 credits
310:421	<u>Environmental Conservation</u>	4 credits
310:425	<u>Population Ecology</u>	4 credits
310:427	<u>Limnology</u>	4 credits
310:428	<u>Applied Aquatic Ecology</u>	4 credits
335:415	<u>Geography of Water Resources</u>	3 credits
335:314	<u>Climatology</u>	3 credits
335:418	<u>Geography of Vegetation and Soils</u>	3 credits
335:336	<u>Urban Land Use Analysis</u>	3 credits
335:435	<u>Geography of Recreational Resources</u>	3 credits
337:434	<u>Ground Water Hydrology</u>	4 credits
337:200	<u>Geology and the Environment</u>	3 credits
337:465	<u>Urban Geology</u>	4 credits
375:450	<u>Environmental Psychology</u>	4 credits
385:320	<u>Population</u>	4 credits
385:321	<u>Population Trends and Demographic Analysis</u>	4 credits
385:435	<u>Sociology of Urbanization</u>	4 credits
420:463	<u>Air Pollution Control</u>	3 credits
420:464	<u>Water Pollution Control</u>	3 credits
430:321	<u>Environmental Engineering I</u>	3 credits
430:322	<u>Environmental Engineering II</u>	3 credits
430:425	<u>Environmental Engineering Lab</u>	3 credits
430:426	<u>Environmental Engineering Design</u>	3 credits
580:439	<u>Workshop in Physical Science</u>	1-4 credits
1030:201	<u>Man and the Environment</u>	3 credits
1030:401	<u>Seminar in Environmental Studies</u>	3 credits

Center for Peace Studies

Add: 1060:301* Value Concepts on Peace and War. 4 credits. An interdisciplinary study of attitudes, concepts, and realities regarding war and peace issues.

This is a required course.

*Effective spring quarter 1973.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, December 7, 1972

Reports from Academic Policies and Curriculum Committee distributed to the University Council December 7, 1972 for future consideration.

Requirements for Baccalaureate and Associate Degrees

A candidate for the baccalaureate or the associate degree must:

1. File an application for graduation with the Registrar
 - a. For June Commencement, on or before January 15.
 - b. For December Commencement, on or before July 15.
2. Place an order with the University Bookstore for the cap and gown, within the date approved by the University Marshal.
3. Participate in Commencement exercises. Degree candidates who wish to be graduated "In Absentia" must apply through the Registrar's Office and pay the appropriate fee.
4. Earn a minimum 2.000 quality point ratio as computed by the Registrar.
 - a. For all collegiate work attempted*, including work taken at other accredited institutions; and
 - b. For all work attempted at The University of Akron.
5. Earn a minimum 2.000** quality point ratio as computed by the appropriate college and/or major department
 - a. For all work attempted in the major field, including work taken at other accredited institutions; and
 - b. For all work attempted in the major field at The University of Akron
6. Meet all degree requirements which are in force at the time a transfer is made to a degree granting college. If the student should transfer to another major, then the requirements shall be those in effect at the time of the transfer. For a student enrolled in an associate degree program in the Community and Technical College, the requirements shall be those in effect upon entrance into the program.
7. Be approved for graduation by the appropriate college faculty, University Council and Board of Trustees.

*For exception refer to article on Academic Reassessment.

**The College of Education requires a minimum 2.500 quality point ratio in the major field.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 12/7/72, continued

Reports from Academic Policies and Curriculum Committee distributed to the University Council December 7, 1972 for future consideration, continued

8. Complete the requirements for a degree in not more than five calendar years from the date of transfer, as defined below. In the event the student fails to complete the degree requirements within five calendar years from the date of transfer, the University reserves the right to make changes in the number of credits and/or courses required for a degree.

The date of transfer for a student in a baccalaureate program will be the date that the student is accepted by the degree granting college. For a student enrolled in an associate degree program in the Community and Technical College, the date of transfer refers to the date of entrance into the program.

9. Spend the last year in residence (earning a minimum of 48 credits in the baccalaureate degree total or 24 credits in the associate degree total) at The University of Akron unless excused in writing by the Dean of the College in which the student is enrolled.
10. Discharge all other individual obligations to The University of Akron.

Requirements for Additional Baccalaureate and Associate Degrees

A candidate for an additional baccalaureate or associate degree must:

1. Meet all the requirements given in the section Requirements for Baccalaureate and Associate Degrees.
2. Earn a minimum of
 - a. 48 credits which have not counted toward the first baccalaureate degree.
 - b. 24 credits which have not counted toward the first associate degree.
3. Earn the above credits in residence.

To better accomplish its objective, the University reserves the right to alter, amend, or revoke any rule or regulation. The policy of the University is to give advance notice of such change, whenever feasible.

Unless the change in a rule or regulation specified otherwise, it shall become effective immediately with respect to each student who subsequently enters the University, whatever the date of his matriculation.

Without limiting the generality of its power to alter, amend, or revoke rules and regulations, the University reserves the right to make changes in degree requirements of student enrolled prior to the change by:

1. Altering the number of credits and/or courses required in a major field of study.
2. Deleting courses.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 12/7/72, continued

Reports from Academic Policies and Curriculum Committee distributed to the University Council December 7, 1972 for future consideration, continuedRequirements for Additional Baccalaureate and Associate Degrees, continued

3. Amending courses by increasing or decreasing the credits of specific courses, or by varying the content of specific courses.
4. Offering substitute courses in the same or in cognate fields.

The Dean of a College, in consultation with the Department or Division Head of the student's major field of study, may grant waivers in writing, in the event a change in rules affecting degree requirements operates with undue hardship upon a student enrolled before the change was effective. The action of the Dean of the College in granting or refusing a waiver may be reviewed by the Vice President for Academic Affairs on his own motion, or at the request of the Dean of the College of the student affected or at the request of the student affected.

Advising of General College and Community and Technical College Students

All day students, including transfers into the General and Community and Technical Colleges, respectively, should be advised by the Division of Advising and Counseling at least through the freshman year (45 credits). At any time after completing 45 credits, a student wishing to pursue a baccalaureate degree and who has selected a major field may apply for transfer to the appropriate baccalaureate degree granting college. Such a transfer preferably should occur not later than the third quarter of the sophomore year.

Report of Akron Representative on Faculty Advisory Committee to the Chancellor of the Ohio Board of Regents—Dr. Ali Fatemi.

The last meeting of the Faculty Advisory Committee was held in Columbus on Tuesday, November 14, 1972. The group did not meet with the Acting Chancellor. The following statement on Desirable Qualifications for the Chancellor was approved and sent to the Search Committee through Mr. Coulter:

Desirable Qualifications for the Chancellor
Ohio Board of Regents

I. General Requirements

The Chancellor should be able to provide effective leadership within a complex state university system comprising diverse types of institutions with varying purposes and structures. He should have skill in diplomacy to resolve conflicts and disagreements between the various state government agencies and among the different universities and colleges.

The Chancellor should be an effective and articulate spokesman for state-supported higher education. He must have a well defined concept of publicly supported higher education and he must be persuasive and convincing to widely disparate groups of people.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 12/7/72, continued

Report of Akron Representative on Faculty Advisory Committee to the Chancellor of the Ohio Board of Regents—Dr. Ali Fatemi, continued

He must be particularly persuasive in working with the Governor and his cabinet, with the State Legislature and its key committees, with the Presidents of various state institutions, and with the public, students and other consumers of higher education in Ohio.

The Chancellor should possess the personal characteristics necessary for success in such a sensitive and important office; namely, integrity, courage, decisiveness, good health, energy and capacity for work. He should be openminded and should have demonstrated innovation and imagination in his work in higher education. He should be an effective public speaker.

II. Evidence for Assessing Qualifications

It would be highly desirable if the candidate possessed the doctoral degree and had a background in higher education which included fulltime teaching and research.

The Chancellor must also have had successful administrative experience, preferably as a president or a vice president of a large publicly supported college or university.

His physical condition should give reasonable assurance of a capacity of at least eight years of work with a high energy requirement. The candidate's race, sex, religion, geographical origin, or political persuasion should not be factors in his selection.

It is unlikely that any one person would possess all of the desired personal qualifications and experiences. The person selected should have the best overall "balance".

Submitted to the Ohio Board of Regents by the Faculty Advisory Committee to the Chancellor of the Ohio Board of Regents.
November 14, 1972

* * * * *

Faculty Advisory Committee will meet with the Chancellor again on Tuesday, December 12, 1972 in Columbus at which time we expect some reactions from the Board of Regents to our communications.

Two important items on the agenda of December 12 meeting with the Acting Chancellor are:

1. The Budget.
2. Governor Gilligan's reported suggestion that the individual Boards of Trustees be abolished and all 12 public institutions of higher education in the state come under a single Board of Trustees.

Your reactions and instructions on both of these items are appreciated. In particular your personal reaction as a faculty member to the idea of a single state-wide Board will be of great help to me in my attempt to express a campus feeling on this to the Acting Chancellor and colleagues from other institutions.

P.S. My new campus telephone extension is 375-7667.

PROJECTS APPROVED BY THE FACULTY RESEARCH COMMITTEE 1972-73
(as of December 7, 1972)

	<u>Amount</u>
Barbara Armstrong "A study of selected techniques for educating mothers of disadvantaged children in skills necessary for the stimulation of optimal child development."	\$ 200
A. Frederic Banda "An empirical study of the capital investment decision-making process in Hungary."	500
Arthur Burford and Robert Corbett "Petrographic and structural relations of parts of Cooper Mountain, Metrona County, Wyoming."	190
Vincent Cassidy "American-European pre-Columbian contact: sites and sources."	300
Harry Chu "Determination of the energy overlap and the energy gap in a semi-metal and their dependence on magnetic field."	545
Barbara Clements "The Biography of A. M. Kollontai."	250
Earl Curry, Jr. "A comparative analysis of Article II of the Uniform Probate Code and the Law of Ohio."	250
Alex Darbes "The effects of intrauterine stress on avoidance learning in the mouse."	414
Helmar Dollwet "The generation of an anesthetic in a redox coupled system to relieve arthritic pain."	234
James Egan "More certain apprehension: the varieties of style in Milton's prose."	300
T. Henry Forsyth "Composite polymeric films for use in the artificial kidney."	650
John Frola "The influence of auxin, gibberollic acid, and cytokimin upon the shoot apical meristem organization of <i>Podophyllum peltatum</i> L."	270
C. Frank Griffin "NMR in the quadrupole regime."	543
Emile Grunberg and Efthimios Pournarakis "The effect of the growth of service industries on the price level."	100

FACULTY RESEARCH PROJECTS (12/7/72), continued

Richard Haude	\$ 745
"Motivational factors in visual exploration by monkeys."	
William Hendon	400
"A cost benefit analysis of maintenance policies in British and American greenbelt cities."	
Peter Henriksen	675
"Determination of electronic structure of metals and semi-metals from measurements of the electric tunnel effect."	
Sebastian Kanakkanatt	300
"Schistosomiasis Control - Field Study."	
Joseph Latona	300
"Effectiveness of manpower development and training act programs in the State of Ohio."	
David Louscher	600
"L. Mendel Rivers and the Armed Services Committee."	
Joseph Mayhan and Chun-Fu Chen	200
"A study of the transmission characteristics of thin periodically varying media."	
Richard Mostardi	391
"The effects of air pollutants on adolescent cardio-pulmonary systems."	
Jerome Mushkat	455
"The reconstruction of the New York Democratic Party, 1861-1872."	
Daniel Nelson	450
"Frederick W. Taylor and the rise of scientific management."	
Harry Pinnick	800
"Magnetic susceptibility measurements of organometallic compounds."	
Margaret Poloma	450
"Attitudes toward and use of family planning services by lower class Akron women."	
Jonathan Rakich	250
"Development and test validation of an instrument to measure perceived job autonomy."	
G. W. Trivoli	150
"Influence of independent shareholder proposals on corporate responsibility and policy."	
Ernst von Meerwall	535
"Low temperature nuclear magnetic resonance (NMR) study of rare earth noble intermetallic compounds."	

\$11,410

Ester Ward
UP for Academic Affairs