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Faculty Senate Chronicle May 1, 1976

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File

the university of akron
Chronicle

a report to the faculty of
the university of akron



1975-76, No. 8 (22 pages)

May 1, 1976

COMMENCEMENT AND COMMISSIONING

The 104th annual June Commencement will be held at Blossom Center on Sunday afternoon, June 13, 1976, at 2:30 p.m. Dr. Wilson Riles, Superintendent of Public Instruction and Director of Education for the State of California, will address the graduates and receive an honorary degree.

The 23rd annual Joint Army and Air Force Commissioning Exercises will take place on Saturday morning, June 12, at 11 a.m. in John S. Knight Auditorium. General Walter T. Kerwin, Jr., Vice Chief of Staff, U.S. Army, will speak and commission the new Second Lieutenants, and be awarded an honorary degree.

The third annual Alumni Awards for Outstanding Teaching on campus will be presented at the traditional Alumni Banquet to be held the week before Commencement, this year on Saturday evening, June 5, at 6 p.m. in the Student Center.

A "Hooding Ceremony" for the J.D. candidates in the School of Law has been arranged for Saturday, June 12, at 2 p.m. in Edwin J. Thomas Performing Arts Hall, when Senator Robert A. Taft, Jr., will be the main speaker. The Law graduates will receive their degrees at Blossom Center the following day.

FACULTY RECOGNITION LUNCHEON

The annual Faculty Recognition Luncheon, honoring those who retire this year, will be held in the Student Center on May Day, Friday, May 21, 1976, at 12:30 p.m. All faculty are invited to attend this friendly and informal occasion, which this year will honor Dr. John Bachmann, Mr. Robert Berry, Mr. Vincent Biondo, Dr. C. A. Christophe, Dr. Gerald Corsaro, Miss Mary Grace Harrington, and Dr. and Mrs. Robert Thackaberry. Reservations may be sent to Mr. Richard Henry in the Community and Technical College by May 14. Dr. C. F. Poston is chairman.

OTHER UNIVERSITY DATES

- | | |
|-------------------------|--|
| May 4, 11,
18 and 25 | E, R and D Center sponsors Faculty Self-Renewal Seminar, lead by Dr. George Knepper, Carroll Hall 219, 3-5 p.m. |
| May 6, 13
and 20 | E, R and D Center sponsors Faculty Mini-course on "Developing Course Objectives", lead by Dr. Isabel Pfeiffer, Carroll Hall 219, 1-2:30 p.m. |
| May 10 | Lecture by Robert Woodward on Town and Gown Series, Thomas Hall, 8:15 p.m. |
| May 14-15 | Ohio Chamber Ballet presents new ballet and repertory, Thomas Hall, 8:15 p.m. |
| May 20 | Regular Meeting of University Council, Leigh Hall 307, 3 p.m. |

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W. K. KELLOGG FOUNDATION PROGRAM PARTICIPANTS

The first 24 participants, Class I, began their 9-week course on April 9, 1976 in the W. K. Kellogg Foundation Program for the Development of Team Leadership at an Urban University.

The following comprise the first group: Mr. George W. Ball, Executive Director of University Relations and Development; Mr. Donald Bowles, Assistant to the Vice President for Planning; Mr. Robert Briechle, Manager, Academic Systems and Programming in the Computer Center; Mr. Dan Buie, Liaison Coordinator, Counseling and Advising; Dr. Michael Farona, Professor of Chemistry; Mr. Thomas Getzinger, University Auditor; Dr. Paul Hayes, Professor of Education and Head of Department of Educational Administration; Mr. Jay Hershey, Director, Residence Halls; Dr. Elaine Lasky, Associate Professor of Speech; Dr. Joseph Lestingi, Associate Professor of Civil Engineering; Dr. Joy Lindbeck, Associate Professor of Education; Dr. George Makar, Associate Professor and Chairman, Division of Business and Office Technology; Dr. Thomas Miles, Coordinator of Instructional Media; Mr. John Miller, Director of Archival Services and Instructor in Bibliography; Mr. James Nolte, Assistant Professor of Commerce; Mr. James Oswald, Director of Publications; Mr. James Prodan, Assistant Professor of Music; Mrs. Connie L. Stear, Assistant Director of Admissions; Mr. Stuart Terrass, Assistant to the Director of Institutional Research and Academic Personnel; Dr. Donald Thorn, Professor of Electrical Engineering and Head of Department of Electrical Engineering; Mr. John Wiandt, Assistant Controller; Dr. Richard Williams, Associate Professor of Electrical Engineering; Mr. John Wilson, Director of Black Cultural Center; and Dr. Walter Yoder, Assistant Professor of Education.

Class II, which will begin its program on October 1, 1976, is constituted as follows: Dr. A. Al-Rubaiy, Assistant Professor of Education; Dr. Barbara Armstrong, Associate Professor of Home Economics; Mrs. Karen Calvert, Editor, University Publications; Dr. Caesar Carrino, Dean of Evening College and Summer Sessions; Dr. David Dolan, Assistant Dean, Community and Technical College; Dr. Bernard Esporite, Assistant Professor of Education and Head of Department of Elementary Education; Miss Rebecca Ganyard, Advisor of Students; Mr. Russel Giersch, Director of Physical Plant; Mrs. Marlene Hathaway, Assistant to the Dean, Buchtel College of Arts and Sciences; Mrs. Faith Helmick, Assistant to the Director of Institutional Research and Academic Personnel; Mr. David Goshen, Assistant to the Dean of the General College; Miss Miriam Joliat, Head of Acquisitions, Bierce Library; Dr. James King, Professor of Education; Mr. Martin Kohn, Program Associate, Department of Special Programs; Mr. Michael Klein, Senior Academic Programmer/Analyst, Computer Center; Dr. Jim Jackson, Assistant Professor of Geology; Mr. John E. Jones, Assistant Director of Admissions; Dr. Ian R. MacGregor, Vice President for Planning; Dr. Eugene Maio, Associate Professor of Modern Languages; Mrs. Shirley Mitchell, Counselor, Testing and Counseling Bureau; Dr. Howard Slaughter, Professor of Speech and Theatre Arts; Dr. Harvey Sterns, Assistant Professor of Psychology; Mr. Frederick Sturm, Assistant to the Dean, Community and Technical College; Dr. Michael Sugarman, Assistant Professor of Education; Mr. Frank Thomas, Director of Computer Services; Mrs. Anna Voorhees, Assistant Librarian for Technical Services; and Dr. Joseph Walton, Assistant Dean of Graduate Studies

Dr. David DeShon, of Western Michigan University, is a consultant to the Project here and will participate in many of the discussions and studies as a leader. Mr. Foster Buchtel, as the Project Director, coordinates the weekly programs.

STANDING COMMITTEES FOR 1976-77

The Procedural Committee of University Council invites all faculty members to inform the Vice President and Provost by June 7 of any standing committee on which they would be interested in serving. The Procedural Committee will consider these assignments after Commencement. Announcement of membership will be made in advance of the fall 1976 quarter.

MINUTES OF MEETING OF UNIVERSITY COUNCIL, April 15, 1976

The regular meeting of the University Council was called to order by the Chairman, Vice President Noel Leathers, at 3:07 p.m. on Thursday, April 15, 1976, in Leigh Hall 307.

Forty-four of the 65 members of the Council were present. Those who were absent with notice were Dr. M. d'Amico, Mr. J. Edminister, Dr. D. J. Guzzetta, Dean R. Hansford, Dr. W. Hendon, Dr. R. Mravetz, Mr. J. Nolte, Mr. R. Shedlarz and Dr. J. Watt. Others absent were Mrs. P. Bomar, Mr. P. Dougherty, Mr. J. Finan, Mr. D. Grady, Mr. K. Gwyn, Mr. R. Massaro, Mrs. D. Molnar, Mr. M. Pernice, Dean S. Samad, Dr. R. Scavuzzo, Dr. J. Sullivan and Dr. T. Sumner.

Dr. Leathers asked for consideration of the minutes of the special meeting of March 11, 1976 and of the regular meeting of March 18, 1976 as printed in The University of Akron Chronicle of April 1, 1976. Dr. Gerlach referred to the next to last paragraph on page 10, the fourth line. He felt that the several "minor revisions" in the first three pages of the proposal, "Policy and Procedural Guidelines Regarding Faculty Load" (circulated by the Faculty Rights and Responsibilities Committee, which had been approved by Council, should be incorporated in the minutes. He also wished to add the words, "as amended", to the second line at the top of page 11 (Appendix to March 11 minutes), to read, "of University Council and as amended and approved by University Council, March 11, 1976". The Secretary also noted that a prerequisite (345:145) had been omitted from the course description of 385:304; and that a new course 385:443 Research Internship had been omitted (both listed on AS-76-7). The details will be added to the list of curricular changes in the May 1976 Chronicle. The minutes and Appendix were all approved as amended.

Since President Guzzetta was out of town, Dr. Leathers reported on several matters on his behalf. He said that the Educational Policy Committee of the Board of Trustees had met on April 14 for three hours to discuss the Council's proposed changes in the Faculty Manual. Although there were some strong disagreements among members of the Committee on several items in the Manual, the Committee had approved the revised version of the Faculty Manual, with some reservations, and will submit it on April 22 for action by the whole Board, and hopefully its final adoption. There had been some question about its being appropriate to include certain statements of policy such as Grievance Procedures, Student Rights, etc., in this document, which the faculty had added. Some other reservations pertained to the Search Committees, the use of "Chairman" instead of "Head", and some aspects of the revised pages 7 and 8. The Provost informed Council that the faculty contracts for 1976-77 had been printed and would carry a beginning date of September 1. There will be ten monthly salary payments, the first being issued at the end of September. He said that Vice President Duff had spent a day in Columbus reviewing the details with the State Auditor, and this policy would be in effect for the next year. The Faculty Advisory Committee had also gone to the colleges for their reaction and suggestions, and the September first date was the best solution from many angles. There has also been some discussion about changing the calendar to an early semester system, and there is a strong possibility of a nearby state institution adopting such a calendar.

In response to a query, Dr. Leathers thought that the new Faculty Manual would be official that date, if adopted by the Trustees on April 22, 1976, and effective July 1, 1976 for all new contracts.

The Chairman of Council, in the absence of some members of the Procedural Committee, said that the Committee had met on April 5 to determine the agenda for today's meeting.

On behalf of the Academic Policies, Curriculum and Calendar Committee, Dr. Poston referred to the summary of recommendations circulated to Council. He moved that Council approve the Certificate Program in Cartographic Specialization in Buchtel College of Arts and Sciences. The motion was seconded and carried.

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 4/15/76, continued

Dr. Poston then read the statement which had been refined by the Academic Policies Committee after Council had referred it back for further study in a previous meeting. Dr. Poston moved its adoption. The motion was seconded. In answer to Dr. Gerlach's question, Dr. Poston said that it would not affect the Honors Program since that is for undergraduates. The motion was then put to a vote and carried. The statement now reads, as approved:

"Undergraduates who are eligible to elect graduate courses must not delay the fulfillment of baccalaureate requirements in order to take graduate courses. The maximum number of graduate credits that may be elected by an undergraduate and applied toward a graduate degree is 12."

Dr. Poston read the following recommendation from the Academic Policies Committee regarding a procedure for offering new Continuing Education courses:

"The Dean of Continuing Education is to review all proposed Continuing Education course descriptions, and is to submit the course proposal to the Office of the Vice President and Provost for final approval."

He moved its adoption. The motion was seconded.

Dr. Gerlach inquired why courses would be submitted only to the Vice President and why University Council would not have the opportunity to review them.

Dr. Poston replied that historically noncredit offerings were not taken to Council.

Dr. Jackson volunteered some background on the situation, explaining that some noncredit courses had titles similar to credit courses and these could be misleading to the public. Some nonspecialists had taught "specialists'" courses. He thought that the Academic Policies Committee should review and be the mechanism for circulating all such noncredit courses, and that such offerings should automatically be referred to the faculty.

Dr. Beyer informed the Council that the Academic Policies Subcommittee had spent considerable time in developing a new procedure which had been instituted in the last six months. Changes had been made, new titles had been substituted, and some courses had been dropped. He said that the new procedures were working well, and provisions made for reexamination of the steps, etc., and he wanted it to continue in this positive way.

Mr. Jamison supported Dr. Jackson as he felt the public judges the University on some of these courses, and he felt they should go to the Academic Policies Committee.

Dean Rogers reminded the Council that this noncredit program has been operated successfully for over 20 years, and The University of Akron enjoys the reputation of having the largest and best such program in Ohio. In fact, some nearby institutions copied both the courses and their advertising, which may have led to some confusion in the eyes of the public, because of mixing credit and noncredit courses in their ads. He recognized that there could be some unsatisfactory courses (even as there are some unsatisfactory credit ones) and that they have been dropped. He cited the different philosophy and reasons for noncredit courses and the right of a University to present differing points of view. There are advisory committees and many fine part-time faculty, and people registering in these programs often are encouraged to go on to credit work. Time is also sometimes a factor often in developing new types of presentations to fill a need which might not wait for circulation among the full-time faculty.

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 4/15/76, continued

Dr. Jackson opined that the state might be moving toward subvention for noncredit courses and that there should be reasonable review procedures. He moved that the statement read by Dr. Poston be amended by the addition, after the words "the course proposal", of the phrase, "to the Academic Policies, Curriculum and Calendar Committee for their information and then". The motion was seconded.

Dr. Rogers said that part of the vitality of the Department of Special Programs is the opportunity to try out new concepts, and some 40 new presentations average each quarter. He said the subvention was only for those two-year associate credit programs, and that many of these now earning subvention are active courses in the two-year Associate degree programs which were taken over by the Community and Technical College after successful introduction in Special Programs. Last year 1,000 students earned credit in these particular areas which had formerly been part of the Special Programs. He says that many other courses which constitute the quarter presentations are hobby courses, and if Council wished to review them, it could do it with the Vice President.

Dr. Carrino could see no reason for Council spending the time in this review as it had no function related to Council's responsibilities. Dr. Leathers said that any objections could be relayed to him, and he felt only the course titles were necessary for review, not any course outlines.

Dr. Gerlach thought that if the Academic Policies Committee was to review, he should amend Dr. Jackson's proposed amendment to substitute the word "review" for "information". The motion to amend the pending amendment was seconded.

Dr. Poston said that the Academic Policies Committee acted as agent for Council, and that he considered this whole referral too cumbersome for Council. Dr. Leathers reminded Council that there were University Committees which perform functions and merely report these functions to Council.

The motion to amend the pending amendment was put to a vote and failed.

Following the call for the question, the motion to amend was put to a vote and carried.

The amended statement was put to a vote and carried and now reads:

"The Dean of Continuing Education is to review all proposed Continuing Education course descriptions, and is to submit the course proposal to the Academic Policies, Curriculum and Calendar Committee for their information and then to the Office of the Vice President and Provost for final approval."

Mrs. Clinefelter reported that the Faculty Rights and Responsibilities Committee had met briefly and resolved Case No. 1976-3 by conciliation.

Mr. Jamison stated that the Library and Learning Resources Committee had had to postpone its meeting to April 26.

The Research (Faculty Projects) Committee, according to Dean Griffin, will meet on April 26 to review the final proposals for grants for the 1975-76 academic year.

Dean Hansford was out of town, but had sent word that there was no report from the Student Affairs Committee.

Dr. Merrix said there was nothing to relate from the Faculty Advisory Committee to the Chancellor of the Ohio Board of Regents.

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 4/15/76, continued

The next item on the agenda was "Old Business", to continue the consideration of the report from last month submitted by the Faculty Rights and Responsibilities Committee on "Policy and Procedural Guidelines Regarding Faculty Load". Dr. Leathers at this point distributed copies of the official load policy which had been circulated to the faculty last September.

Dr. Merrix, because the faculty would not have had time now to go over the official policy, moved to postpone the further consideration of the "Old Business" item until the May meeting, and that it be on that agenda under "Old Business". The motion was seconded and carried.

Dr. Gerlach, under "New Business", said that the faculty of Buchtel College of Arts and Sciences had met April 13 and had expressed its concern that the transfer of the Social Work program to the College of Fine and Applied Arts had been made without involvement of Buchtel College or the University Council. The College had passed the following motion: "The Faculty of Buchtel College regrets and objects to the manner in which the separation of the two social workers from the Department of Sociology was made and calls upon the Administration to act in the future so as to strengthen the principles of collegiality. Changes in the substantive composition and organization of the Faculty of Buchtel College into departments or other units should be made with the approval of the Faculty".

Dr. Gerlach then moved that the Academic Policies, Curriculum and Calendar Committee inquire into this matter, report its findings to the May meeting of Council, and make a recommendation of policy in order to clarify the roles of the colleges and University Council in the determination of such rearrangements of academic units of the University. The motion was seconded.

Dr. Schultz asked the rationale for the change. Dr. Leathers responded that the national Council on Social Work Education had visited the campus last year and had raised some serious questions about the structure and administration of the Social Work program and made some recommendations which must be carried out to maintain accreditation. Discussions subsequently were held with members of the department and other faculty groups involved. A survey was conducted by Dr. Lively (former Graduate Dean and Head of the Department of Sociology) at the request of the Provost and he worked with Dean Oetjen. The members of the Department of Sociology had discussed the matter and voted for the move, nearly unanimously. Other meetings with faculty and administrators were held with Dr. Watt. This same procedure had been followed two years ago with the transfer of the Journalism program from the Department of English to the Department of Speech and Theatre Arts.

Dr. Merrix deplored the fact that Buchtel College itself had not been consulted about the subsequent loss of two faculty members, and warned other colleges that it might happen to them. He wondered why a new department was not created.

Dr. Poston pointed out that the main concern should not be the loss of two faculty members, but the probable loss of academic accreditation, and consequent deprivation for students.

Dr. Barresi informed the Council that the Department of Sociology did vote, and the transfer is now an accepted fact. It was not a unanimous vote, nor completely satisfactory in its resolution of the problem. But because of the academic concerns it was a question which should not be the province of a small group to make the ultimate decision. He wished to correct a statement, however, that the program had been accredited. It has not, and it appeared it would not be accredited without appropriate action.

Dr. Leathers thanked Dr. Barresi for his comments.

MINUTES OF MEETING OF UNIVERSITY COUNCIL, 4/15/76, continued

Dr. Gwinn asked why this proposed change had not been circulated to Council when courses are. Dr. Leathers explained that not all courses are circulated.

Dr. Hart opined that more and more decisions were made without following proper procedures.

On request, Dr. Gerlach reread his motion, which was put to a vote and carried.

The Secretary read a notice from Dean Samad that the School of Law had added a course, 0920:657 Seminar in Pension and Profit Sharing, which would be offered in September 1976 and which was required only to be reported to Council. It will appear in detail in the Appendix to these minutes.

Dr. Leathers expressed appreciation to the members of Council for their service this academic year, since the new Council will take office in May.

The meeting was adjourned at 4:15 p.m.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, April 15, 1976

Report of the Faculty Rights and Responsibilities Committee

Policy and Procedural Guidelines
Regarding Faculty Load
February 19, 1976

The University Council reviewed the statement through II.B. on March 18, 1976, and revised it to read as follows:

I. Preamble

The concept of "load credit" represents an attempt to provide a viable method of quantifying certain kinds of activity which the University expects from each faculty member on full-time appointment. A "load policy" should identify:

- A. Which activities will be assigned "load credit."
- B. Which activities will not be assigned "load credit" because they are part of larger categories for which load credit is assigned, or because the activities are not directly attributable to the faculty member's professional activity assignment at the University.

(Rationale: If loads are to be assigned on the basis of a set of "work rules" or a "load policy", then every activity that is of value to a department, division, college, or to the University should carry some "load credit." If an activity is of no value, then no credit should be assigned for that activity and no member of the faculty should be expected to participate in the activity.)

- C. The criteria and procedures to be used for assigning load credit.

In each department individual faculty loads will be determined by the department head (or his equivalent):

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

Report on Policy and Procedural Guidelines Regarding Faculty Load, continued

1. in consultation with the faculty member,
2. in accordance with established and well-recognized professional relationships, and
3. in harmony with criteria concerning workload of recognized programmatic accrediting associations of which a school or college is a member or an applicant for membership.

It is recognized that many and varied differences exist between the colleges and departments of this University and that these differences preclude the possibility that a single set of rigid rules can justly and equally apply to all. It is also recognized, however, that properly designed guidelines should make it easier to strive for fairness and equity among individuals, departments and colleges. The accompanying guidelines are so intended. In many cases these guidelines represent clarifications and specific applications of policies and procedures issued and/or practiced in prior years and they supersede all such prior policies.

(Rationale: Up to the present time, the load policies of this University have been based almost entirely upon the professional relationships between faculty and department heads and deans. With a few exceptions this basic principle has worked exceptionally well and should be retained as the fundamental basis for determination of faculty loads.

It is understandable that certain instances of abuse and that the ever-increasing demand for justification of faculty activities at upper levels of administration and legislation should lead to clarification and codification of load policies. Continued abuse of stated guidelines can and should be handled on an individual basis by the Vice President and Provost acting through the appropriate dean and department head. In "accounting" for faculty activities, the major effort should be to demonstrate to directors, regents, and legislators who may be far removed from teaching and research that effective policies already exist.)

II. Guidelines for Assigning Load Credit

A. Standard Load

The standard load for all full-time faculty on 9-month contracts is 36 load credits per academic year and shall include credit for teaching, administrative responsibility, research, advising students, instructional support and other University-related responsibilities. For full-time faculty on 12-month contracts, the standard load is 36 load credits per academic year and 9 in the summer. The following policies provide direction for assigning load credit to the activities of each faculty member.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

Report on Policy and Procedural Guidelines Regarding Faculty Load, continued

B. Teaching in General

The basic unit for measuring teaching load is the "load credit" which represents one 50-minute period of classroom activity per week for one quarter. Load credit assigned for laboratory activities, discussion sections, etc., will be determined by agreement among the faculty members involved, the department head, and the dean. The following factors will be considered when attempts are made to assign load credit for these activities.

1. Extent of involvement of faculty.
2. Extent of involvement of graduate assistants.
3. Time needed to set up laboratories, etc.

Although the number of students enrolled in a class will usually [except as noted in 4) below] have no direct effect on load credit, the following procedures shall be followed in establishing class size and determining load credit in unusual circumstances.

- 1) Deans and department heads after consultation with the involved faculty members will establish academically sound minimum and maximum limits on the size of each class. Except in unusual circumstances as determined by the Dean, minimum and maximum limits during the summer and evenings will be comparable to those in the regular school year.
 - 2) If a class meets minimum size the faculty member will receive full load credit according to the regular guidelines for the type of course: lecture, laboratory, etc.
 - 3) If a regularly scheduled class fails to meet minimum size, the department head and Dean in consultation with the faculty member may agree to cancel the class and reschedule the faculty member for some other appropriate activity. The class should be cancelled in sufficient time to allow adequate preparation for alternative activities. If the class is not cancelled, the faculty member shall receive full load credit according to the regular guidelines for the type of course.
 - 4) When a class exceeds the maximum size for which it is programmed, the class shall either be split or the faculty member shall be provided with some appropriate kind of extra assistance (e.g., graduate assistant to help grade papers, extra secretarial help, etc.) or reasonable and appropriate additional load credit.
 - 5) Deans and department heads will be responsible for maintaining equity among faculty in the assignment of large and small classes, insofar as faculty qualifications will allow.
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APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

CURRICULUM CHANGES

Correction to Curriculum Changes printed on p. 16 of the Chronicle of April 1, 1976:

BUCHTEL COLLEGE OF ARTS AND SCIENCES

[AS-76-7]

- | | | |
|------------------|---------|--|
| Add prerequisite | 385:304 | <u>Methods of Social Research I.</u> 4 credits. Prerequisites, 385:100, and 345:140, 145, 150, 155 or permission. |
| to read | | |
| Add course | 385:443 | <u>Research Internship.</u> 3-6 credits. Prerequisite, 385:304, 305, 320 and 442 with a 3.0 average and a 3.0 average in Sociology, and permission. Individual placement in selected community organization for supervised experience in all phases of a social research project. Includes experience in research design, data collection and analysis, report writing, and policy recommendations. Student must register intent and receive permission to take the course with the instructor during the quarter prior to enrollment. This course may be repeated for credit. |

Addition of new course by School of Law:

SCHOOL OF LAW

Pursuant to prior University Council authorization (Minutes, February 19, 1970, page 12, Faculty Bulletin, March 5, 1970 issue), I certify that the following course addition has been duly adopted by the Faculty of the School of Law at its March 9, 1976 meeting, to be effective with the 1976-77 academic year and thereafter, and is submitted for filing with the University Council Minutes.

Stanley A. Samad, Dean

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|-----|----------|---|
| Add | 0920:657 | <u>Seminar in Pension and Profit Sharing.</u> 3 credits. Recommended prerequisites, 0920:672 and 0920:688. A study of employee benefit plans and arrangements dealing with qualified pension and profit-sharing plans under Section 401(a) of the Internal Revenue Code, plan for self-employed and professional corporations and associations and nonqualified contracts involving individual employees. (Completion of 0920:672 and 0920:688 highly recommended.) |
|-----|----------|---|

The following curriculum changes, in accordance with the Curricula Change Process adopted by University Council on December 12, 1974, have had final approval by the Vice President and Provost, or through specific vote by University Council, all effective September 1976 (unless otherwise noted):

BUCHTEL COLLEGE OF ARTS AND SCIENCES

Department of English

[AS-76-10]

- | | | |
|------|---------|-------------------------------------|
| Drop | 330:350 | <u>Creative Writing.</u> 3 credits. |
|------|---------|-------------------------------------|

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

BUCHTEL COLLEGE OF ARTS AND SCIENCES, continued

Department of English, continued

Add	330:351	<u>Advanced Poetry Writing.</u> 3 credits. Prerequisite, 330:251 or permission. Advanced practice in writing poems, with an emphasis on shaping works for publication. Class limit is 15 students.
	330:352	<u>Advanced Fiction Writing.</u> 3 credits. Prerequisite, 330:252 or permission. Advanced practice in writing short stories, with an emphasis on shaping works for publication. Class limit is 15 students.
	330:353	<u>Advanced Script Writing.</u> 3 credits. Prerequisite, 330:253 or permission. Advanced practice in writing scripts for stage, television and motion pictures, with an emphasis on shaping works for publication and performance. Class limit is 15 students.

Department of Geography

[AS-76-22]

Add	335:480/580	<u>Thematic Cartography.</u> 4 credits. Prerequisite, 335:380 or permission. A laboratory study of basic principles and techniques used in thematic mapping. Stresses the use of map symbols to indicate certain characteristics of geographical information. The symbols may be employed to show qualitative differences (differences in kind) of a certain category of information and may also indicate quantitative differences in the information (differences in amounts).
	335:489/589	<u>Automated Computer Mapping.</u> 4 credits. Prerequisite, 335:380 or permission. A laboratory study of computer-assisted map compilation and execution; emphasis is placed upon the integration of computer graphic and cartographic skills and techniques for those students with no prior experience in computer use. Laboratory problems adapted to specialized interests of students.

[AS-76-26] Certificate Program in Cartographic Specialization

This specialized program of professional and scientific education is intended to enhance cartographic training in data handling, analysis, and graphic communication of simple and complex geographic data and information. The program is not limited to geography majors, and is designed to introduce automated and traditional cartographic skills to students in a wide spectrum of disciplines.

The University of Akron through its Laboratory for Cartographic and Spatial Analysis housed in the Department of Geography offers training opportunities for specialized study in the rapidly changing and significant area of cartography as a method of graphic communication. The program is designed to include flexibility to meet the varied backgrounds and interests of the individual student.

In addition to cartographic courses in the Department of Geography many courses useful to such a specialized program are found in other departments. The curriculum leading to a certificate in Cartographic Specialization is designed to permit the student to combine interesting and useful

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

BUCHTEL COLLEGE OF ARTS AND SCIENCES, continued

Department of Geography, continued

elements of art, science and technology. Cartography has a very long and rich history and while it is eminently practical, it has a strong component of theory. For this reason a student may elect to take cartographic courses simply because they are focused on an interesting and exciting liberal arts subject. Other students choose cartography courses with the thought of increasing their potential of finding a position subsequent to their graduation. There is a well documented need for persons trained in cartographic awareness and skills in business, industry and government, as well as the academic community.

Program Requirements:

Requirements for candidacy and course requirements in the certificate program are proposed by the faculty of the Department of Geography in accordance with the educational policies of The University of Akron. The requirements are:

- I. Completion of Core Courses.
- II. Completion of Elective Courses.
- III. Internship in an agency, firm or office engaged in related graphic and cartographic work; or an Internship in the University's Laboratory for Cartographic and Spatial Analysis.
- IV. Successful completion of an Oral Defense of Student's Cartographic Work—judged by Department Committee.

Core Course Requirements for the Certificate

All participants are required to complete successfully at least five of the following basic courses:

		<u>Credits</u>
335:240	<u>Maps and Map Reading.</u>	4
335:380	<u>Cartography</u>	4
335:444	<u>Map Compilation and Reproduction</u>	3
335:447	<u>Remote Sensing of the Environment</u>	5
335:448	<u>Statistical Mapping</u>	3
335:480	<u>Thematic Cartography</u>	4
335:489	<u>Automatic Computer Mapping</u>	4

Elective Courses

In addition to the five core courses, each student's program, with regards to the student's background and career interests and subject to the approval of the Program's Director, is to include at least ten credit hours taken from the following professional, technical and research offerings. In consultation with the Program's Director, elective courses will be selected from the current University offerings from the list below. Similar courses completed at other universities, up to five years prior to admission to candidacy, may be approved by the Director.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

BUCHTEL COLLEGE OF ARTS AND SCIENCES, continued

Department of Geography, continued

The intent of the elective requirements is to facilitate the development of a diverse cartographic skill and prospective which is significant and useful for a person who will be or is already engaged in work with duties such as data systems management, urban planning and environmental impact studies. To be truly effective and comprehensive in his or her chosen career, the program candidate must have academic acquaintance with a variety of professional and technical approaches which can be used for graphic communication in order to cope with social, economic, political, geographical, physical design, and governmental problems. Selection of courses which duplicate or continue topical interests already well established in a particular student's background will be discouraged.

		<u>Credits</u>
<u>Civil Engineering</u>		
430:231	<u>Surveying I.</u>	3
430:232	<u>Surveying II.</u>	3
<u>Mechanical Engineering</u>		
460:125	<u>Engineering Graphics I.</u>	3
460:126	<u>Engineering Graphics II.</u>	2
<u>Art</u>		
710:131	<u>Drawing I.</u>	5
710:191	<u>Design.</u>	3
710:284	<u>Introduction to Graphic Design.</u>	5
<u>Computer Science</u>		
445:201	<u>Introductory Fortran Programming.</u>	3
<u>Education</u>		
515:410	<u>Audio-Visual Education.</u>	3
<u>Business</u>		
620:355	<u>Introduction to Electronic Data Processing.</u>	5
<u>Commercial Art (C&T)</u>		
710:131	<u>Drawing I.</u>	5
224:140	<u>Typography and Lettering.</u>	3
224:222-223	<u>Photography (sequential)</u>	3 (each)
<u>Data Processing (C&T)</u>		
244:120	<u>Introduction to Information Processing.</u>	3
244:299	<u>Special Topics in Data Processing.</u>	1-4
<u>Instrumentation Technology (C&T)</u>		
290:120	<u>Instrumentation Drafting.</u>	2
<u>Mechanical Technology (C&T)</u>		
292:121	<u>Technical Drawing I.</u>	3
<u>Surveying and Construction Technology (C&T)</u>		
298:224	<u>Land Surveying</u>	4
<u>Geology</u>		
337:313	<u>Field Methods in Geology.</u>	3

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

BUCHTEL COLLEGE OF ARTS AND SCIENCES, continued

Department of Geography, continued

Final Examination and Defense of Cartographic Works

After the completion of all course work associated with the program, each student will arrange a time for an oral defense of samples of his/her cartography. The examination would be conducted by two members of the Department and one from the elective area. The student will be asked questions on their specific projects and any topics covered in the course work completed specifically for the program. The examinations will be conducted rigorously in order to maintain a high quality in the program. One week before the scheduled examination, the student will submit samples of what he/she considers to be his/her best cartographic work. The works must be judged acceptable by the examination committee and reduced photographic copies will be kept for permanent record in the Laboratory's file. After passing the oral examination and the acceptance of the samples of cartography, the student is considered to have completed the program.

Quality of Student Work

A minimum grade of "C" is required in all elective courses taken as part of the certificate program. In the five core courses an average grade of "B" is required.

Certificate Awards

The certificate will be awarded by The University of Akron upon successful completion of the program's requirements and a baccalaureate degree.

Department of Mathematics and Statistics [effective Summer Session I, 1976]
[AS-76-29]

Drop	345:425-426/ 525-526	<u>Theory of Functions of a Complex Variable I, II.</u> 3 credits each.
	345:434/534	<u>Vector Analysis.</u> 3 credits.
	345:435/535	<u>Tensor Analysis.</u> 3 credits.
	345:237	<u>Differential Equations II.</u> 3 credits.
	345:420/520	<u>Advanced Calculus I.</u> 3 credits.
	345:422-423/ 522-523	<u>Applied Advanced Calculus II, III.</u> 3 credits each.
	345:482-483/ 582-583	<u>Introduction to Real Analysis II, III.</u> 3 credits each.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

BUCHTEL COLLEGE OF ARTS AND SCIENCES, continued

Department of Mathematics and Statistics, continued

Add	345:415/515	<u>Combinatorics and Graph Theory.</u> 3 credits. Prerequisite, 345:233 or permission of instructor. An introduction to a working knowledge of the basic ideas and techniques of counting the number of ways of arranging given objects in a prescribed way; structure and properties of systems satisfying certain prescribed conditions with applications to the social, behavioral and physical sciences, statistics, and operations research; properties of graphs and their use in the analysis of the structure of systems involving binary relations.
	345:425/525	<u>Complex Variable.</u> 4 credits. Prerequisite, 345:235. Complex numbers, elementary functions of a complex variable, mappings and geometry of elementary functions, differentiation, integration, series, residues, poles, conformal mappings and applications in engineering and the sciences.
	345:434-435/ 534-535	<u>Vector and Tensor Analysis I, II.</u> 3 credits each. Sequential. Prerequisite, 345:235. Vector algebra with applications to analytic geometry; differential and integral calculus of scalar-vector, vector-scalar, and vector-vector functions; integral theorems; coordinate transformations; cartesian, contravariant, covariant vectors and tensors; fundamental operations with tensors; differentiation of tensors; applications.
	345:437/537	<u>Intermediate Differential Equations.</u> 3 credits. Prerequisite, 345:236. The analysis and solution of systems of ordinary differential equations, both linear and nonlinear. Topics include stability theory, perturbation methods, asymptotic methods, and applications from the physical and social sciences.
	345:439/539	<u>Mathematical Models.</u> 3 credits. Prerequisite, 236 or permission of instructor. The formulation and analysis of mathematical models in the social and physical sciences. An analysis is made of both deterministic and stochastic models. Topics include Markov processes, linear programming, game theory, graph theory, and queing theory.
	345:481-482- 483/581- 582-583	<u>Advanced Calculus I, II, III.</u> 3 credits each. Prerequisite, 345:236. An introduction to the real number system, sequences and series, point set theory, continuity, differentiation, integration, partial derivatives, multiple integration, maxima and minima, convergence and uniform convergence, power series, improper integrals, transformations, line and surface integrals.
	347:668	<u>Multivariate Statistical Methods.</u> 3 credits. Prerequisite, 347:653 or 347:473. Basic concepts and methods of multivariate techniques, including distance concept, Hotelling T^2 , multivariate analysis of variance, linear contrasts among vectors of treatment means, multivariate factorial experiments, nested and repeat-measure designs, Bonferroni X^2 tests, multivariate regression and correlation, linear discriminant analysis, canonical correlation, applications to problems in applied fields.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

BUCHTEL COLLEGE OF ARTS AND SCIENCES, continued

Department of Mathematics and Statistics, continued

Change in Title	345:236	<u>Differential Equations I</u> , 4 credits. to <u>Differential Equations</u> .
Change in Pre-requisites	345:301	<u>History of Mathematics</u> , 3 credits. to read: Prerequisite, 233 or permission of instructor.
	345:401/501	<u>Theory of Numbers</u> , 3 credits. to read: Prerequisite, 233.
	345:424/524	<u>Topics in Applied Mathematics</u> , 3 credits. to read: Prerequisite, 483 or permission of instructor.
	345:441/541	<u>Non-Euclidean Geometry</u> , 3 credits. to read: Prerequisite, 233.
	345:611-612-613	<u>Algebraic Theories I, II, III</u> , 3 credits each. to read: Sequential; prerequisites, 311-312, 406/506 and 410/510 or consent of instructor.
	345:614-615-616	<u>Topology I, II, III</u> , 3 credits each. to read: Sequential; prerequisite, 483.
	345:621-622-623	<u>Functions of a Real Variable I, II, III</u> , 3 credits each. to read Sequential; prerequisite, 483.
	345:625-626-627	<u>Analytic Function Theory I, II, III</u> , 3 credits each. to read: Sequential; prerequisite, 483.
	345:642	<u>Differential Geometry</u> , 3 credits. to read: Prerequisite, 483.
	347:651-652-653	<u>Mathematical Statistics I, II, III</u> , 3 credits each. to read: Sequential; prerequisite, 345:483.
Change in Course Description	345:401/501	<u>Theory of Numbers</u> , 3 credits. Prerequisite, 233. Development of the euclidean algorithm, congruences, primitive roots and indices, quadratic residues, number-theoretic functions and the distribution of primes.
	345:441/541	<u>Non-Euclidean Geometry</u> , 3 credits. Prerequisite, 233. The development of hyperbolic geometry by investigating the historical axiomatic treatment of euclidean geometry.
	345:611-612-613	<u>Algebraic Theories I, II, III</u> , 3 credits each. Sequential; prerequisites, 311-312, 406/506 and 410/510 or consent of instructor. Review of the fundamental structures of algebra (groups, rings, fields, vector spaces); The Jordan-Holder and Sylow theorems, modules over principal ideal domains, the classical groups, Galois Theory, lattices, and Boolean algebra.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

BUCHTEL COLLEGE OF ARTS AND SCIENCES, continued

Department of Mathematics and Statistics, continued

Change in Course Description	347:473-474/ 573-574	<u>Experimental Design I, II.</u> 3 credits each. Sequential; prerequisites, 452 or 472. Fundamental principles of analysis of variance, crossed and nested designs, multiple comparisons, power considerations, factorial designs, crossed and nested factors, principles of confounding, randomized blocks, latin squares, fractional factorial designs, analysis of covariance, applications to problems in applied fields.
	347:667	<u>Statistical Computer Applications.</u> 3 credits. Prerequisites, 345:236 and one course in statistics. Translation of statistical procedures into computer languages, iterative procedures, recursion formulas, generating data, Monte Carlo techniques, use of statistical packages.
	347:671-672- 673	<u>Advanced Behavioral Statistics I, II, III.</u> 3 credits each. Sequential; prerequisite, college level algebra (or equivalent). Descriptive statistics, probability, statistical distributions, hypothesis testing, point and interval estimation, nonparametric statistics, regression and correlation, multiple regression, fundamental principles of designs, factorial experiments, individual comparisons, nested designs, repeat-measure designs, randomized blocks, analysis of covariance, applications to problems in applied fields. Laboratory. Not open to mathematics or statistics majors.

Department of Physics
[AS-76-32]

Add	365:138	<u>Properties of Light Laboratory.</u> 1 credit. Prerequisite or corequisite, 365:137 or permission. An introductory laboratory, which deals qualitatively and quantitatively with the properties of light and the interaction of light with material objects. Experiments considered include: light sources, intensity and luminosity, reflection, transmission and refraction, dispersion, lenses and optical instruments, polarization, scattering and absorption of light, interference, diffraction, and perception. One two-hour laboratory period each week.
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COLLEGE OF ENGINEERING

Department of Civil Engineering
[EN-76-1]

Change Credits, Description to	430:351	<u>Transportation Engineering.</u> 4 credits (4-0). Prerequisite, junior standing. Transportation and government; multimodal transportation systems, planning requirements and techniques, introduction to traffic engineering; introduction to design of highways, railroads, airports and harbors.
	430:352	<u>Highway Design.</u> 3 credits (3-0). Prerequisite, 351. A step by step study of the practice of modern highway design, highway construction techniques and practices. [Course becomes an elective]

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

COLLEGE OF ENGINEERING, continued

Department of Civil Engineering, continued

Change Title, Description	430:463	to	<u>Highway Planning.</u> 3 credits (3-0) <u>Transportation Planning.</u> 3 credits (3-0). Prerequisite, 351. Theory and techniques for development, analysis, and evaluation of alternative transportation systems plans. Development of tools and professional techniques to solve transportation problems with em- phasis on urban areas.
Change Title, Prerequisite	430:421	to	<u>Environmental Engineering III.</u> 4 credits (4-0) <u>Environmental Engineering.</u> 4 credits (4-0). Prerequisite, 343.
Change Description to	430:350		<u>Urban Planning.</u> 3 credits (3-0). Historical developments in urban planning; urban planning techniques and patterns; comprehensive master planning studies; planning regulations; design problems; class projects; class project presentations.
	430:405/505		<u>Advanced Mechanics of Materials I.</u> 3 credits (3-0). Prerequisite, 306. Three-dimensional stress, basic theory of elasticity, theories of failure, shear center, unsymmetrical bending, curved beams, beams on elastic foundations, circular plates.
	430:406/506		<u>Advanced Mechanics of Materials II.</u> 3 credits (3-0). Prerequisite, 306. Rectangular plates (Navier, finite differences), membrane theory of shell analysis, torsion of noncircular sections, general Castigliano theorem, buckling of columns and beam-columns.
	430:491		<u>C. E. Systems Design.</u> 3 credits (3-0). Prerequisite, senior standing. Systems approach to engineering problems. Basic financial tools. Basic statistics and optimization. Mathematical programming and operations research methods. Project planning and scheduling methods. Decision analysis. Simulation. Project management and control. Specification preparation, estimating and bidding.
Change Pre- requisites to	430:311		<u>Soil Mechanics.</u> 4 credits (3-1). Prerequisite, 202 or permission.
	430:380		<u>Engineering Materials Laboratory.</u> 1 credit (0-1). Prerequisite, 202.
	430:401-402		<u>Steel Design I and II.</u> 3 credits each (3-0). Prerequisite, 306.
	430:403-404		<u>Reinforced Concrete Design I and II.</u> 3 credits each (3-0). Pre- requisite, 306.
	430:451		<u>Introduction to Matrix Analysis of Structures.</u> 3 credits (3-0). Prerequisites, 306 and 445:206.
	430:452		<u>Introduction to Structural Vibrations.</u> 3 credits (3-0). Prerequisite, 306.
	430:482		<u>Hydraulics Laboratory.</u> 1 credit (0-1). Prerequisite, 341.

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

COLLEGE OF ENGINEERING, continued

Department of Civil Engineering, continued

Add	<u>Design Option and Construction Option</u>	
	<u>Design</u>	<u>Construction</u>
<u>General College Courses</u>		
110:111-112	<u>English Composition</u>	8
110:108	<u>Effective Speaking</u>	4
110:215	<u>Types of Literature</u>	4
110:	<u>Physical Education</u>	2
110:	<u>Social Science Requirement</u>	9
110:317-318-319	<u>Western Cultural Traditions</u>	12
110:3--	<u>Eastern Civilizations</u>	3
		42
<u>Natural Science Courses</u>		
315:111-112	<u>Introductory Chemistry for Engineers</u>	6
337:101	<u>Introductory Physical Geology</u>	5
345:118	<u>Pre-Calculus Mathematics</u>	4
345:231-232-233-234-235	<u>Analytic Geometry—Calculus I, II, III, IV, V</u>	20
345:236	<u>Differential Equations</u>	4
365:291-292-293	<u>Elementary Classical Physics I, II, III</u>	12
		51
<u>Engineering Courses</u>		
420:305	<u>Materials Science</u>	3
430:130	<u>Engineering Design</u>	2
430:201	<u>Statics</u>	4
430:202	<u>Introduction to Mechanics of Solids</u>	4
430:230	<u>Surveying</u>	5
430:306	<u>Theory of Structures</u>	4
430:311	<u>Soil Mechanics</u>	4
430:312	<u>Foundations</u>	4
430:341	<u>Hydraulic Engineering</u>	4
430:342	<u>Water Resources</u>	3
430:343	<u>Water Supply and Wastewater Disposal</u>	4
430:350	<u>Urban Planning</u>	3
430:351	<u>Transportation Engineering</u>	4
430:380	<u>Engineering Materials Laboratory</u>	1
430:401	<u>Steel Design I</u>	3
430:403	<u>Reinforced Concrete Design I</u>	3
430:424	<u>Water-Wastewater Laboratory</u>	1
430:471	<u>Construction Administration</u>	3
430:472	<u>Construction Engineering</u>	—
430:473	<u>Construction Materials</u>	—
430:482	<u>Hydraulics Laboratory</u>	1
430:491	<u>C. E. Systems Design</u>	3
440:331	<u>Circuit Fundamentals</u>	3
440:381	<u>Electrical Machinery Fundamentals</u>	—

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

COLLEGE OF ENGINEERING, continued

Department of Civil Engineering, continued

<u>Engineering Courses</u> continued		<u>Design</u>	<u>Construction</u>
445:206	<u>Fortran Programming for Scientists and Engineers</u>	3	3
460:125	<u>Engineering Graphics I</u>	3	3
460:305	<u>Thermal Science</u>	3	-
460:310	<u>Fluid Mechanics</u>	4	4
460:322	<u>Dynamics</u>	4	4
430:	<u>Civil Engineering Electives</u>	12	-
	<u>Engineering Electives</u>	-	9
<u>Business Courses</u>			
620:221-222	<u>Principles of Accounting</u>	-	8
620:290	<u>Cost Accounting</u>	-	4
640:321-322	<u>Business Law I, II</u>	-	9
640:371	<u>Business Finance</u>	-	5
650:350	<u>Personnel Management</u>	-	3
<u>Electives</u>		16**	9**
<u>Summary</u>			
General Courses		42	42
Natural Science Courses		51	51
Engineering Courses		95	73
Business Courses		0	29
Elective Courses		16**	9**
Total		204	204

**9 credits of ROTC may be applied to electives

Department of Electrical Engineering

Change [EN-76-5]	Requirements for the Bachelor of Science in Electrical Engineering to be changed as follows:		
Add to Re- quirement	430:201	<u>Statics.</u> 4 credits	
	460:322	<u>Dynamics.</u> 4 credits	
	or		
	430:202	<u>Mechanics of Solids.</u> 4 credits.	
Delete from Requirement	430:304-305	<u>Mechanics I, II.</u> 8 credits. [This change to be effective for all students who have not completed the original Mechanics requirement by the end of spring quarter 1976.]	

APPENDIX TO MINUTES OF UNIVERSITY COUNCIL, 4/15/76, continued

COLLEGE OF ENGINEERING, continued

Department of Electrical Engineering, continued

Change	440:371	<u>Feedback Control I.</u> 3 credits (3-0).
[EN-76-6] to	440:371	<u>Control Systems I.</u> 3 credits (3-0)
	440:473/573	<u>Feedback Control III.</u> 3 credits (3-0).
to	440:473/573	<u>Control Systems III.</u> 3 credits (3-0).
	440:372	<u>Feedback Control II.</u> 3 credits (2-1).
to	440:372	<u>Control Systems II.</u> 3 credits (3-0).
and	440:374	<u>Control Systems II Laboratory.</u> (0-1). Prerequisite, 440:371.
Add	440:373	<u>Control Systems I Laboratory.</u> (0-1). Corequisite, 440:371. Experiments include analog simulation, computation and basic servo mechanism.

Department of Mechanical Engineering

[EN-76-4]

Change Requirements for the Bachelor of Science in Mechanical Engineering to be changed as follows:

Add to Requirement	365:291-292-293	<u>Elementary Classical Physics I, II, III.</u> 4 credits each.
Delete from Requirement	365:231-232-233	<u>Concepts of Physics I, II, III.</u> 4 credits each.

COMMUNITY AND TECHNICAL COLLEGE

[CT-76-6]

Add	242:275	<u>Real Estate Project.</u> 3 credits. Prerequisites, 245, 255, 265. A course to provide the Real Estate student the opportunity to demonstrate knowledge about real estate as a product and a profession. The student must demonstrate a knowledge of the physical, locational, economic and legal characteristics of real estate and is required to take a piece of real property through the brokerage process and document findings in a written report.
Change	The above course is to be added as a requirement of the Real Estate Option in the Commerce Program in the Community and Technical College.	

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

PROJECTS APPROVED BY THE FACULTY RESEARCH COMMITTEE 1975-76

April 26, 1976

Drs. Roger Bain and Paul Franks	\$ 1,600
"Diagenesis of carbonate materials, St. Croix. Hornblende tracer and carbonate sediment dispersal, St. Croix."	
Professor Nate Cardarelli	750
"Evaluation of potential controlled release cercariacides and schistosomicides"	
Dr. Stephen Darling	700
"The synthesis of alkadiene- and alkene- phosphorus synthons"	
Dr. Robert Deitchman	1,100
"Effect of crowding and estrous on complexity preference"	
Professor Earl Ertman	270
"Documentation of the Egyptian collection, Fogg Art Museum, Harvard University"	
Dr. John Gwinn	1,500
"Isolation and characterization of the hemolymph glycoproteins involved in the molting process in crayfish"	
Dr. Vern Harnapp	340
"An assessment in Gulf coast Mexico of rangeland using Landsat I and Skylab satellite imagery"	
Dr. William G. Kofron	1,100
"Alkaloid synthesis"	
Dr. William McGucken	332
"The Society for Freedom in Science, 1940-1947"	
Dr. Samuel A. Mueller	750
"The Civil Religion and the Bicentennial"	
Dr. Jerome Mushkat	280
"The reconstruction of the New York Democratic party, 1861-1874"	
Dr. Donald Ott	500
"The study of cyclosis in the coenocytic cells of the genus Vaucheria (algae)"	
Dr. Gerald Pyle	750
"Continued research in spatial aspects of human health problems"	
Dr. James Richardson	400
"A history of politics and public policy in Cleveland, Ohio"	
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TOTAL	\$10,372