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The University of Akron Faculty Senate Chronicle

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## Faculty Senate Chronicle April 25, 1991

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1990-91

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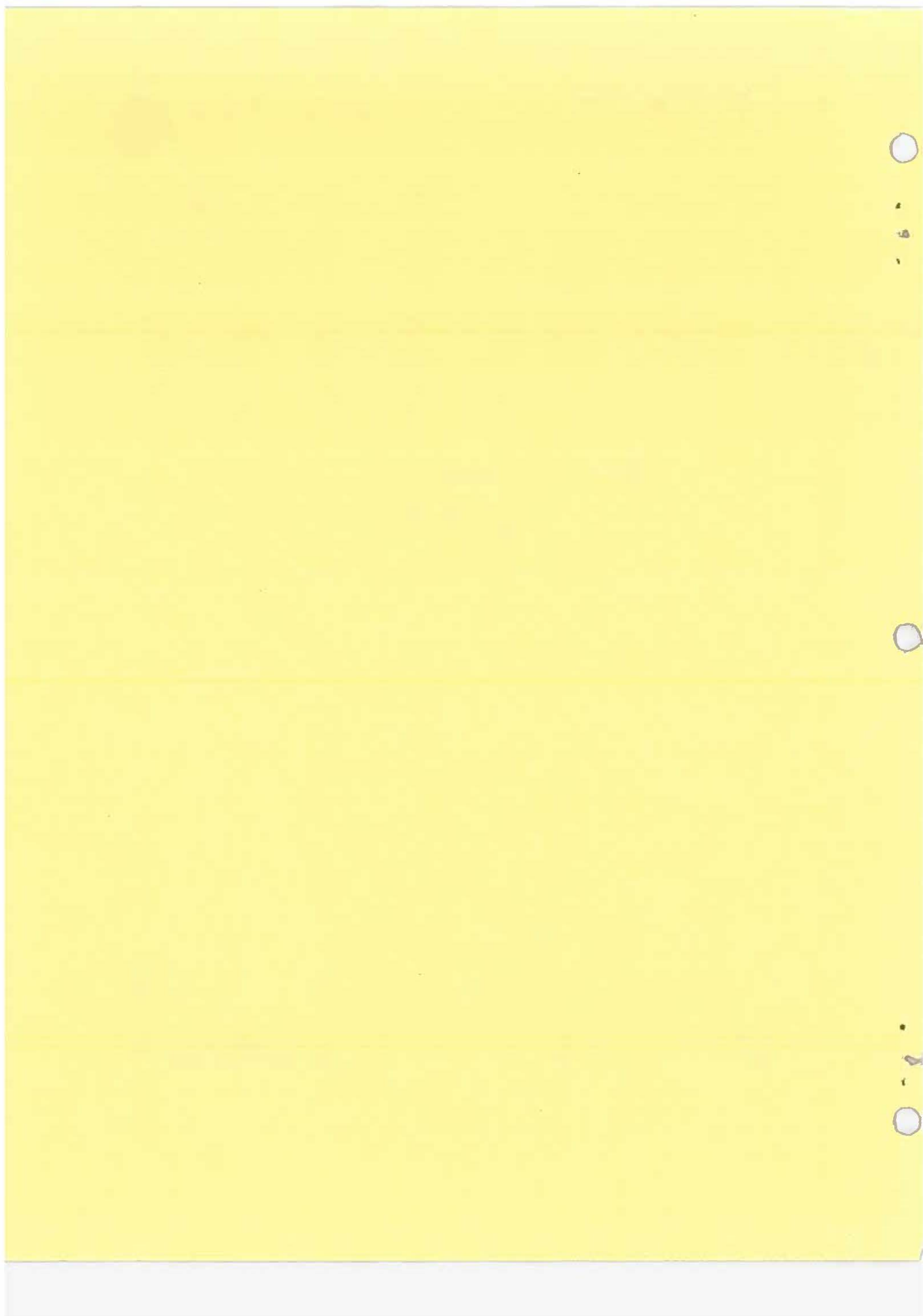
SUPPLEMENT TO THE UNIVERSITY OF AKRON CHRONICLE

DATED APRIL 25, 1991

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Any comments concerning the contents of The University of Akron Chronicle may be directed to the Office of the Senior Vice President and Provost.



## CURRICULUM CHANGES

The following curriculum changes, in accordance with the Curricula Change process adopted by University Council on December 12, 1974, have had final approval by the Senior Vice President and Provost, or through specific vote by University Council, all effective September 1991 (unless otherwise noted).

### COLLEGE OF ARTS AND SCIENCES

#### AS-91-2

##### Department of Geography

Revise Master of Arts and Master of Science Programs in Geography as follows:

ADD as a requirement: Completion of two seminars (total of 6 credits) from 3350:600, 601, or 602.

General Bulletin description should appear as follows:

Completion of minimum of 30 credits, of which 16 must be in geography courses. A minimum of 12 credits (exclusive of thesis) must be at the 600 level. The 30 credits must include the following:

3350:581	Geographic Research Methods	3 credits
3350:583	Spatial Analysis	3 credits
3350:687	History of Geographic Thought	3 credits

Of the 30 credits required for the program, all students must complete at least two seminars (total of 6 credits) from 3350:600, 601, or 602 Seminar (3 credits each).

Thesis (M.A. only) - eight credits.

Statistics (M.S. only) - eight credits.

Successful completion of a comprehensive examination administered by the departmental committee.

The student who has undergraduate deficiencies in cartography, geographic research techniques and spatial analysis will be expected to remedy these by taking appropriate courses with the advice of the head of the department.

Courses taken outside the department must be approved by the department prior to enrollment.



-91-3

## Department of Classics

Revise Bachelor of Arts in Classics as follows:

3200: CLASSICS

3200: Classics; 3210: Greek; 3220: Latin

Bachelor of Arts

Classics

The General Studies

At least 39 departmental credits including the following:

3200:189	Mythology	3 credits
3200:313	Archaeology of Greece	3 credits
3200:314	Archaeology of Rome	3 credits
3200:361	Literature of Greece	3 credits
3200:362	Literature of Rome	3 credits

Two of the following courses:

3400:304	The Ancient Near East	3 credits
3400:305	Greece	3 credits
3400:306	Rome	3 credits
3400:307	The Eastern Roman Empire (324-1453)	3 credits
3400:438	Bronze Age and Archaic Greece	3 credits
3400:439	Classical and Hellenistic Greece	3 credits
3400:440	The Roman Republic	3 credits
3400:441	The Roman Empire	3 credits

## Electives in Classics

Language credits (a minimum of 4 semesters of either Greek or Latin - 12 credits) must be above the 200 level in order to be included in the 39 credits. In the case of a Latin major, three credits must be taken during the senior year.

The student wishing to be certified for public school teaching with Latin as the principal teaching field must complete the state requirements in that language. In addition, the required credits in a second academic teaching field must be completed. See "Teaching Fields," College of Education, Section 4 of this Bulletin.

Classical Civilization

The General Studies and the second year of a foreign language.

At least 36 departmental credits including the following:

3200:189	Mythology	3 credits
3200:313	Archaeology of Greece	3 credits
3200:314	Archaeology of Rome	3 credits
3200:361	Literature of Greece	3 credits
3200:362	Literature of Rome	3 credits

One of the following courses:

3400:304	The Ancient Near East	3 credits
3400:307	The Eastern Roman Empire (324-1453)	3 credits

One of the following groups of courses:

## (A)

3400:305	Greece	3 credits
3400:440	The Roman Republic	3 credits
3400:441	The Roman Empire	3 credits

## (B)

3400:306	Rome	3 credits
3400:438	Bronze Age and Archaic	3 credits
3400:439	Classical and Hellenistic Greece or an approved substitute	3 credits

Electives in Classics, Ancient Philosophy, or Cultural Anthropology 9 credits

It is strongly recommended that a major in Classical Civilization fulfill the foreign language requirement by taking two years of Greek or Latin.

AS-91-4

## Department of Economics

Revise Bachelor of Arts in Economics as follows:

Add	3470:460	Statistical Methods. 4 credits. Prerequisite: 3450:145 or 3450:149 or equivalent. Applications of statistical methods to the social sciences including descriptive statistics, probability distributions, statistical inference (parametric, nonparametric), categorical data analysis, linear regression, correlation. Computer applications. May not be used to meet Mathematical Sciences degree requirements.
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**Non-thesis Option:**

A minimum of 36 credits is required, of which 24 must be at the 600 level and 24 must in literature or literary theory (exclusive of individual reading).

**Required Courses for Both Options:**

3300:506	Chaucer*	3 credits
3300:570	History of the English Language	3 credits
	OR	
3300:670	Modern Linguistics*	3 credits
3300:615	Shakespearean Drama*	3 credits
3300:691	Bibliography and Literary Research	3 credits

\*Unless the student has passed a comparable course at the undergraduate level with a grade of "B" or better.

**Alternate Track in Composition**

The Alternate in Composition is intended for students interested in the teaching of English in secondary schools and in the teaching of writing and literature at the two-year and four-year colleges. The degree is also appropriate for those planning to enter a doctoral program in composition and rhetoric. The program does not lead to state certification in teaching; students who desire certification should consult the Department of Secondary Education for state certification requirements to teach in the public schools.

**Thesis Option:**

A minimum of 33 credits is required (27 credits of coursework and 6 hours of thesis). Of the 27 credits of coursework, 18 must be in composition studies (including courses in composition, linguistics, and theoretic) and 9 credits in literature or literary theory (exclusive of individual reading). Of the 27 credits of coursework, 15 must be at the 600 level.

**Non-thesis Option:**

A minimum of 36 credits is required, only 6 of which may be individual reading. At least 24 credits required in composition studies (including courses in composition, linguistics, and rhetoric) and 9 credits in literature or literary theory (exclusive of individual reading). Of the 36 credits of coursework, 21 must be at the 600 level.



## Required Courses for Both Options:

3300:576	Theory and Teaching of Basic Composition	3 credits
3300:670	Modern Linguistics	3 credits
3300:673	Theories of Composition	3 credits

## Other Available Courses for Both Options:

## Composition and Rhetoric:

3300:575	Theory and Rhetoric	3 credits
3300:674	Research Methodologies in Composition	3 credits
3300:679	Scholarly Writing	3 credits
3300:689	Reading Theory	3 credits

## Linguistics

3300:570	History of the English Language	3 credits
3300:571	U.S. Dialects: Black and White	3 credits
3300:589	Grammatical Structures of Modern English	3 credits
3300:589	Sociolinguistics	3 credits
3300:689	Contextual Linguistics	3 credits

## Literature and Literary Theory

Any approved department offering at the 500 or 600 level.

## Graduate Foreign Language Requirement for All Master's Degrees in English

The language requirement for the M.A. in English and the M.A. in English: Alternate Track in Composition is as follows:

Demonstration of reading proficiency in a foreign language appropriate to English studies. Completion of one junior- or senior-level course in a foreign language (with a grade of "B" or better) will exempt the student from examination, provided the course was taken no more than five years before the student began graduate work.

Note: 3300:600 Teaching College Composition Practicum (1100:111 for 2 credits and 1100:112 for 2 credits) are required for Teaching Assistants. They do not count toward the degree requirements.

AS-91-6

## Department of Mathematical Sciences

ADD Actual Science Option to the Baccalaureate Degree in Statistics.

Add the following new courses:

Add	3470:471/571	Actuarial Science I. 3 credits. Prerequisite: 3450:216 3450:222 or equivalent. Study of various statistical, financial, and mathematical calculations used to determine insurance premiums related to contingent risks based on individual risk model frameworks.
	3470:472/572	Actuarial Science II. 3 credits. Prerequisite: 3470:471/571. Continuation of Actuarial Science I. Study of multiple life functions, multiple decrement models, valuation theory for pension plans, insurance models including expenses, nonforfeiture benefits and dividends.
	3470:469/569	Reliability Models. 3 credits. Prerequisite: 3470:461/561. Selected topics in reliability modeling including parametric and nonparametric models, competing modes of failure, censored data and accelerated life model

General Bulletin description as follows:

## BACCALAUREATE DEGREE IN STATISTICS

Bachelor of Arts  
Bachelor of Science

The General Studies and the second year of a foreign language

Core curriculum:

3450:221,2,3	Analytic Geometry and Calculus I, II, III	12 credits
3450:312	Linear Algebra	3 credits
3470:451,452	Theoretical Statistics I, II	6 credits
3470:461,462	Applied Statistics I, II	

Option I Mathematical Statistics

Other required courses:

3450:421	Advanced Calculus I	3 credits
3450:422	Advanced Calculus II	3 credits
Electives --	approved 300/400 level statistical courses	5 credits



**Option II Applied Statistics**

Other required courses:

3470:415	mathematical Concepts for Stat	4 credits
3470:480	Statistical Computer Applications	3 credits
3470:495	Statistical Consulting	2 credits
Electives -- approved 300/400 level statistical courses		2 credits

For the Bachelor of Science degree in Option I or II: complete 18 credits of course work outside the major and beyond the General Studies in a suitable area of concentration as approved by the department.

For the Bachelor of Arts degree in Option I or II: complete 18 credits of humanities or social sciences beyond the General Studies. The 18 credits are to be from more than one department.

Electives -- 20 credits.

**Option III Actuarial Sciences (Bachelor of Science only)**

Other required courses:

3450:138	Mathematics of Finance	1 credit
3470:415	Mathematical Concepts for Stat	4 credits
	OR	
3450:421, 422	Advanced Calculus	6 credits
3470:471, 472	Actuarial Science I, II	6 credits

Two of the following:

3450:427	Numerical Analysis	3 credits
3450:428	Numerical Linear Algebra	3 credits
3450:436	Mathematical Models	3 credits
3470:469	Reliability Models	3 credits
6500:421	Operations Research	3 credits

The recommended area of concentration for the Actuarial Sciences degree:

3250:244	Intro to Economic Analysis	3 credits
6200:201, 202	Accounting I, II	8 credits
6400:318	Risk Management and Insurance	3 credits
6400:371	Business Finance	3 credits

Electives -- 13 to 15 credits of approved courses.

AS-91-7

## Department of Political Science

Revise the Bachelor of Arts in Political Science. Under Political Science Electives c  
p. 71 of the General Bulletin, make the following change:

**From:** Political Science Electives 9 credits  
(Electives must include one 400-level course other than one used to meet th  
American politics requirement.)

**To:** Political Science Electives 6 credits  
(Elective must include two 400-level courses. May include 400-level cours  
used to meet American Politics requirement.)

Revise the Certificate in Applied Politics.

Drop	3700:402/502	Politics and the Media.	3 credits
	3700:472/572	American Interest Groups.	3 credits.

## Program Requirement Changes:

**To: Core Courses:**

3700:440/540	Public Opinion and Political Behavior	4 credits
3700:470/570	Campaign Management	3 credits
3700:471/571	Campaign Finance	3 credits
3700:473/573	American Political Parties	3 credits
3700:395/695	Internship	3 credits (minimum)

**Electives:** In addition to the core courses, students must complete two of  
the following elective courses:

*3700:392/690	Special Topics (Applied Politics focus)	3 credits
*3700:397/697	Independent Study	3 credits
3700:402/502	Politics and the Media	3 credits
3700:472/572	American Interest Groups	3 credits
*3700:6xx	One American Politics graduate seminar	3 credits

\*Student must have prior approval of the Bliss Institute Director.

Students must maintain at least a B (3.0) average in the certificate course work.

## Program Credits Hour Change

Total Required Core Credit Hours: TO 16

Total Elective Credit Hours: TO 6

Total Required Credit Hours: TO 22



Revise Political Science Minor in Pre-Law as follows:

Add            3700:361            Politics of the Criminal Justice System. 3 credits.

Revise the Bachelor of Arts in Political Science, the Bachelor of Science in Political Science/Criminal Justice, and the Bachelor of Science in Political Science/Public Policy Management. The following reflects the change in the Statement of Policies:

#### Statement of Policies - Admissions

For students enrolled at The University of Akron and for students wishing to transfer directly to Buchtel College of Arts and Sciences from other institutions, the following criteria must be satisfied for admission to the Department of Political Science:

The student must be admissible to Buchtel College of Arts and Sciences.

A minimum grade point average of 2.20 must be met in all University work, including transfer credits.

A minimum grade point average of 2.20 must be met in all work in political science, including transfer credits.

#### Retention

Students in the political science programs must maintain a minimum grade point average of 2.20 overall and a minimum of 2.20 grade point average in Political Science courses in order to remain in the program. A student who fails to maintain the 2.20 cumulative average will be placed on academic probation. Failure to raise the average after one semester or one 10 week summer session will result in dismissal from the program. The student may not apply for readmission for at least one semester.

No course may be repeated for a grade change more than once.

#### Graduation

A political science major must earn a cumulative 2.20 grade point average in political science and overall to graduate with such a declared major.

Grade of C- or below obtained in any course at other institutions will not apply toward a political science degree at The University of Akron.

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Change the following course as follows:

Prerequi- site Descrip- tion	3700:395 <u>Internship in Government and Politics.</u> 2-9 credits. TO Prerequisite: Three courses in political science at The University of Akron, 2.20 average in political science, and permission of instructor. Supervised individual placement with political office holders, party groups, governmental agencies, law firms, and other organizations providing professional-level work.
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AS-91-8

## Department of Political Science

Revise the Bachelor Science in Political Science/Criminal Justice as follows:

## New Courses:

Add	3700:361	<u>Politics of the Criminal Justice System.</u> 3 credits. Prerequisite: none. Examines the impact of the political process and political institutions on criminal law and policy.
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## Existing Courses:

3700:201	<u>Introduction to Political Research.</u> 3 credits
3700:480	<u>Policy Problems: Criminal Justice.</u> 3 credits.

## Course Deletions:

Drop	3700:210	State and Local Government and Politics. 3 credits
	3700:341	American Congress. 3 credits.
	3700:360	Judicial Process. 3 credits.
	3700:461	Supreme Court and Constitutional Law. 3 credits
	3700:480	Policy Problems: [Aging or Poverty or other non-Criminal Just focus]. 3 credits.

AS-91-9

## Department of Mathematical Sciences

Revise the Bachelor of Science in Computer Science as follows:

Add the following new course:

Add	3450:208	<u>Introduction to Discrete Mathematics.</u> 4 credits. Prerequisites: 3450:145 or 3450:149. A foundation course in Discrete Mathematics with applications. Topics include Sets, Number Systems, Boolean Algebra, Logic, Relations, Functions, Recursion, Matrices, Induction, Graphs, and Trees.
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Add the following existing courses:

3460:430	<u>Theory of Programming Languages.</u> 3 credits.
3460:465	<u>Computer Organization.</u> 3 credits.
3460:___	<u>Computer Science Elective.</u> 3 credits.

## Delete from the program:

Drop	3450:115	Linear Programming. 1 credit.
	3450:223	Analytic Geometry and Calculus III. 4 credits.
	3450:312	Linear Algebra. 3 credits.
	OR	
	3450:428	Numerical Linear Algebra. 3 credits.
	3450:427	Introduction to Numerical Analysis. 3 credits.
	3460:420	Structured Programming. 3 credits.

## Make the following course changes:

Title	3460:209	<u>Computer Programming I.</u> 3 credits. <u>T0</u>
Prerequisite		<u>Introduction to Computer Science.</u> 3 credits.
		Prerequisites: 3450:145 or 149.
Title	3460:210	<u>Computer Programming II.</u> 3 credits. <u>T0</u>
Prerequisite		<u>Computer Science II.</u> 3 credits.
Description		Prerequisites: 3450:208 and 209. Dynamic memory allocation methods, elementary data structures, internal representations, and associated algorithms. Topics include lists, stacks, queues, trees, and sorting methods.
	3460:316	<u>Introduction to Data Structures.</u> 3 credits. <u>T0</u>
		Prerequisites: 3460:210 and 3450:221 or 3450:215. A continuation of topics in 3460:210. Topics include: graphs and graph algorithms, external sorting, hashing, advanced tree and file structures.

## Revise the Minor in Computer Science as follows:

Add	3450:208	<u>Discrete Mathematics.</u> 4 credits.
Drop	3450:216	Concepts of Calculus II. 4 credits
	OR	
	3450:222	Analytic Geometry - Calculus II. 4 credits.
Title	3460:209	<u>Computer Programming I.</u> 3 credits. <u>T0</u>
Prerequisite		<u>Introduction to Computer Science.</u> 3 credits.
		Prerequisites: 3450:145 or 149.
Title	3460:210	<u>Computer Programming II.</u> 3 credits. <u>T0</u>
Prerequisite		<u>Computer Science II.</u> 3 credits.
Description		Prerequisites: 3450:208 and 209. Dynamic memory allocation methods, elementary data structures, internal representations, and associated algorithms. Topics include lists, stacks, queues, trees, and sorting methods.



Revise the Certificate in Computer Science as follows:

Add	3450:208	<u>Discrete Mathematics</u> . 4 credits.
Drop	3450:216 OR 3450:222	Concepts of Calculus II. 4 credits Analytic Geometry - Calculus II. 4 credits.
Title	3460:209	<u>Computer Programming I</u> . 3 credits. <u>TO</u>
Prerequisite		<u>Introduction to Computer Science</u> . 3 credits. Prerequisites: 3450:145 or 149.
Title	3460:210	<u>Computer Programming II</u> . 3 credits. <u>TO</u>
Prerequisite		<u>Computer Science II</u> . 3 credits. Prerequisites: 3450:208 and 209. Dynamic memory allocation methods, elementary data structures, internal representations, and associated algorithms. Topics include lists, stacks, queues, trees, and sorting methods.
Description		

#### AS-91-20

Department of History

Revise the Doctoral Program in History as follows:

Add the following requirement to the doctoral program in History:

**Students in the doctoral program will be expected to enroll in exclusively graduate courses whenever possible. Courses at the 500-level in the student's major or dissertation fields will not be counted toward the degree, and only 9 hours of 500-level courses in the student's secondary fields will be counted.**

Add the following option to the "Manual For Doctoral Students", Section 1.a.  
Formulation of the Student's Program of Study:

**The student will also select a third field. He or she may choose it from the above list, or may choose another field supportable by the resources of the department. Such a field may be defined by geography, chronology, or topic, but in any case should be sufficiently broad to embody a substantial body of historical literature and/or a diverse and important body of historically significant issues. Examples of such fields are the following:**

**The Twentieth Century (chronological)  
History of Christianity (topical)  
History of Russia (geographical))**

**Delete from the program the requirement that all doctoral students have experience in college teaching. In its place, the Graduate Committee of the Department of History will review each student's program of study and will suggest specific sorts of training on an individual basis according to the student's interests and needs.**



-91-23

## Department of Psychology

Add 3750:760 Organizational Change and Transformation. 4 credits.  
Prerequisites: 3750:610 or permission of instructor.  
 Survey of theories and introduction to practical methods of organizational change and transformation used to increase organizational effectiveness and improve employee quality of work life.

-91-24

## Department of Psychology

**Program Title Change:** From: Joint Program in Counseling and Psychology  
 To: Collaborative Program in Counseling Psychology

Descrip- 3750:707 Supervision in Counseling Psychology I. 3 credits.  
 tion Prerequisite: Doctoral standing or instructor's permission.  
TO Instruction and experience in supervising a graduate student in counseling.

3750/5600:710 Theories of Counseling and Psychotherapy. 4 credits.  
Prerequisite: 3750:630. TO Major systems of individual psychotherapy explored within a philosophy of science framework: Freudian, behavioral, Rogerian, cognitive and other. Includes research, contemporary problems and ethics.

3750:715 Research Design in Counseling I. 3 credits. Prerequisite: Doctoral standing or instructor's permission. TO Study of research designs, evaluation procedures, and review of current research.

Title 3750:713 Advanced Seminar in Counseling. 4 credits. TO  
 Descrip- Advanced Seminar in Counseling Psychology. 4 credits.  
 tion Prerequisite: Doctoral standing or instructor's permission.  
 Examination of major issues in the field such as the counselor as a professional and as a person, and issues, problems and trends in counseling.

-91-27

## Department of Classics

Descrip- 3200:401,2/501,2 Egyptology I and II. 3 credits each.  
 tion Prerequisite: permission of instructor. TO The history and antiquities of Ancient Egypt.

3200:404,5/504,5 Assyriology. 3 credits each. Prerequisite: permission of instructor. TO The Akkadian language or other ancient Near Eastern cuneiform languages.

3220:497,8/597,8 Latin Reading and Research. 3 credits  
Prerequisite: permission of instructor. TO Either prose composition, philology, Latin, epigraphy, numismatics, or another appropriate topic.



AS-91-28

## Department of Mathematical Sciences

Descrip- tion	3450:222	<u>Analytic Geometry-Calculus II.</u> 4 credits. <u>Prerequisite:</u> 221. <u>TO</u> Derivatives of exponential, logarithmic, trigonometric, inverse trigonometric, hyperbolic and inverse hyperbolic functions; methods of integration; sequences, series, moments, centroids, indeterminate forms, polar coordinates.
	3450:223	<u>Analytic Geometry-Calculus III.</u> 4 credits. <u>Prerequisite:</u> 222. <u>TO</u> Vector algebra, cylindrical, spherical coordinates, vector-valued functions, curvature; functions of several variables, limit, continuity, partial derivatives, differentials, directional derivatives, maxima, minima, multiplier integrals, Divergence Theorem.
Prerequi- site	3450:312	<u>Linear Algebra.</u> 3 credits. <u>TO</u> <u>Prerequisite:</u> 3450:223 or permission of instructor.
Add	3470:250	<u>Introductory Probability.</u> 2 credits. <u>Prerequisite:</u> 3450:145 or equivalent. Basic concepts of probability, random variables and their distributions, special discrete probability models, discrete event stochastic processes.

## COLLEGE OF BUSINESS ADMINISTRATION

BA-91-2

## Department of Marketing

Number	6600:630	<u>International Marketing Policies.</u> 3 credits. <u>TO</u>
Prerequi- site	6800:630	<u>International Marketing Policies.</u> 3 credits. <u>Prerequisite:</u> 6600:620 and 6800:605 or permission of instructor.
Number	6600:690	<u>Seminar in International Business.</u> 3 credits. <u>TO</u>
Prerequi- site	6800:690	<u>Seminar in International Business.</u> 3 credits. <u>Prerequisite:</u> 6800:605 and a total of 15 Phase II graduate credits or permission of instructor.
Descrip- tion		Advanced course covering several major issues in international business.

BA-91-4

## Department of Finance

Number	6400:320	<u>Legal Environment of Business.</u> 4 credits. <u>TO</u>
Title	6400:220	<u>Legal and Social Environment of Business.</u> 4 credits.
Descrip- tion		Explores the legal and social environment in which modern business must function. The legal system, public and private law, and contemporary social issues are addressed.



-91-5

## Department of Finance

Prerequisite	6400:633	<u>Management of Depository Financial Institutions.</u> 3 credits. <u>TO</u> Prerequisite: 6400:602 and 6500:602.
	6400:645	<u>Investment Analysis.</u> 3 credits. <u>TO</u> Prerequisite: 6400:602 and 6500:602 or permission of instructor.
	6400:674	<u>Financial Management and Policy.</u> 3 credits. <u>TO</u> Prerequisite: 6400:602 and 6500:602.

## COLLEGE OF EDUCATION

-91-6

## Department of Counseling &amp; Special Education

## Program Title Change:

FROM:	Joint Program in Counseling Psychology
TO:	Collaborative Program in Counseling Psychology

-91-8

## College of Education Core Courses (Effective Fall, 1992)

## Delete from the program and University offering:

Drop	5100:310	Educational Media and Technology. 3 credits.
	5100:450	Problems in Education. 3 credits.
	5100:350	Educational Measurements and Evaluation. 3 credits.
	5100:250	Human Development and Learning. 3 credits.
	5100:150	Introductional to Professional Education. 3 credits.

## Add the following new courses:

Add	5050:210	<u>Characteristics of Learners.</u> 3 credits. Prerequisite: completion of College of Education Preadmission Requirements. Corequisite: 5050:211. Describe cognitive, psychosocial, physical, language, and moral development of learners Pre-K through adult. Identifies learner needs, roles of teachers and schools in fostering optimal development.
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- 5050:211      Teaching and Learning Strategies. 3 credits. Prerequisite: completion of College of Education Preadmission Requirements. Corequisite: 5050:210. From course content and activities, students will recognize, select, and practice various instructional models. Students will acquire and apply appropriate learning and motivational strategies.
- 5050:310      Instructional Design. 3 credits. Prerequisites: 5050:210; 5050:211. Corequisite: 5050:311. Design and teach lessons using instructional models, strategies, and resources for students with different characteristics and design appropriate assessments to measure content mastery.
- 5050:311      Instructional Resources. 3 credits. Prerequisites: 5050:210; 5050:211. Corequisite: 5050:310. Examines existing and developing media, technological, human and environmental resources as they relate to learning. Includes identifying, locating, evaluating, using, designing, and preparing educational resources.
- 5050:320      Diversity in Learners. 3 credits. Prerequisites: 5050:210; 5050:211. Students learn to appreciate the common core culture, the diversity in the student population and the democratic ideal of equal access to educational opportunity.
- 5050:330      Classroom Management. 3 credits. Prerequisites: 5050:210; 5050:211. Content regarding effective organization of the classroom as well as procedures and models for mediation of student behaviors will be presented.
- 5050:410      Professional Issues in Education. 3 credits. Prerequisites: 5050:310; 5050:311; 5050:320; 5050:330. Coursework applying social and philosophical foundations of education to current and historical issues in education with attention to roles and responsibilities of contemporary teachers.

ED-91-9

Department of Elementary Education  
(Effective Fall 1992 with specific courses becoming effective as specified.)

Revise the Elementary Education program as follows:

Delete from the program:

- |       |          |                                                         |
|-------|----------|---------------------------------------------------------|
| Drop: | 5200:286 | Children's Literature. 3 credits.                       |
|       | 5200:336 | Teaching of Elementary School Mathematics I. 3 credits. |



## Delete from the program and University offering:

Drop:	5200:100	Student Participation: Observation. 1 credit.
	5200:141	Handicrafts in the Elementary School. 1 credit. (Effective Fall 1993)
	5200:225	Elementary Field Experience I. 2 credits. (Effective Fall 1994)
	5200:321	Art for the Grades. 3 credits. (Effective Fall 1996)
	5200:335	Teaching the Language Arts. 4 credits (Effective Fall 1996)
	5200:337	Teaching of Reading. 3 credits. (Effective Fall 1996)
	5200:339	Principles of Diagnostic Teaching of Reading. 3 credits.
	5200:343	Science for the Elementary Grades - Lab. 1 credit.
	5200:346	Teaching Elementary School Mathematics - Lab. 1 credit.
	5200:347	teaching of Reading - Lab. 1 credit.
	5200:348	Teaching of Social Studies - Lab. 1 credit.
	5200:349	Principles of Diagnostic Teaching of Reading - Lab. 1 credit
	5200:350	Multicultural Education Concepts, Programs, and Practices. 3 credits. (Effective Fall 1996)
	5200:356	Teaching Elementary School Mathematics II. 2 credits. (Effective Fall 1996)
	5200:425	Elementary Field Experience III. 2 credits. (Effective Fall 1997).

## Course Changes:

Prerequisite	5200:325	<u>Elementary Field Experience II. 2 credits. TO</u>
Description		<u>Corequisite: 5200:345.</u> Planned field experience emphasizing teaching of language literacy activities to groups of children in urban/suburban elementary classrooms. (Effective Fall 1994)
Title	5200:338	<u>The Teaching of Social Studies. 3 credits. TO</u>
Prerequisite		<u>The Teaching of Social Studies in the Elementary School.</u> 3 credits. Prerequisites: 5050:210; 3350:100, one History requirement from General Studies.



## Add the following existing courses:

Add	5200:333	<u>Science in the Elementary Grades.</u> 3 credits.
	5200:495	<u>Student Teaching.</u> 4-8 credits.
	5200:496	<u>Student Teaching.</u> 1-6 credits.
	5200:403	<u>Student Teaching Seminar.</u> 1 credit.

## Add the following new courses:

Add	5200:215	<u>The Child, The Family, and the School.</u> 2 credits. Prerequisite: 5050:210. Social, emotional, cognitive, physical, moral development of elementary and middle school children. Influence, interaction of home, family, peers, and school on the development of children. (Effective Fall 1991)
	5200:220	<u>Visual Arts Culture in the Elementary School.</u> 1 credit. Art education concepts, structures and knowledge base to provide curricular opportunities for education majors to develop as creative problem solvers in an elementary school setting. (Effective Fall 1993)
	5200:245	<u>Understanding Language Literacy.</u> 3 credits. Prerequisite: 5050:210. Children's language literacy learning is explored through an integrated instructional model focusing upon reading, writing, speaking, and listening development which incorporates use of children's literature. (Effective Fall 1993)
	5200:250	<u>Developing the Processes of Investigation.</u> 3 credits. Prerequisites: 5050:210; 5050:211. This course will enable students to identify and acquire those investigative and discovery processes and skills that are common in mathematics, science, and social studies. (Effective Fall 1993)
	5200:320	<u>Visual Arts Application in the Elementary School.</u> 3 credits. Prerequisite: 5200:220. Exploration of materials, methods, processes and visual techniques relating two and three-dimensional art experiences for the teacher of elementary children. (Effective Fall 1994)
	5200:342	<u>Teaching of Elementary Schools Mathematics.</u> 4 credits. Prerequisite: general college mathematics requirement. Trends in mathematics instruction in elementary schools. Procedures for the development of mathematical concepts and skills. (Effective Fall 1994)



- 5200:345      Teaching Language Literacy. 4 credits. Prerequisite: 5200:245. The teaching of language literacy is explored through an integrated instructional model. Strategies for teaching language literacy through literature will be presented. (Effective Fall 1994)
- 5200:445      Evaluating Language Literacy. 3 credits. Prerequisite: 5200:245; 5200:345. Assessment of student progress in language literacy will be explored. Formal and informal instruments indentifying progress in reading, writing, speaking, and listening are examined. (Effective Fall 1996)
- 5200:450      Integrated Curriculum Applications in the Elementary School. 3 credits. Prerequisite: 5200:333, 338, 342, 345. Course integrating the curricular content of previous methods courses into holistic curriculum units which are implemented in an elementary school settings. (Effective Fall 1995)

#### Additional Changes:

Elementary Education majors must take 5200:365 AND 5550:334 to be in accordance with Ohio Department of Education Certification requirements.

#### Program Credit Hour Change:

Total Program Credit Hours Required: TO 134 to 137 dependent on area of concentration

Total Required Credit Hours:                      TO 134 to 137 dependent on area of concentration

Total Elective Credit Hours:                      TO 0

-91-10

#### Department of Elementary Education

Revise the program in Kindergarten Validation as follows effective Fall 1992 unless otherwise specified:

#### Program Title Change

FROM:                      Kindergarten Validation

TO:                              Kindergarten Endorsement

Delete the following from the program and University offering:

Drop	5200:330	Early Elementary Education I. 3 credits.
	5200:331	Early Elementary Education II. 3 credits.
	5200:340	Early Elementary Education I - Lab. 1 credit.
	5200:341	Early Elementary Education II - Lab. 1 credit.

Add the following new courses:

Add	5200:330	<u>Kindergarte Policies, Issues and Trends.</u> 4 credits. Prerequisite: 7400:265. In-depth examination of policies issues, and trends influencing kindergarten children, their families, and the kindergarten educational process.
	5200:331	<u>Kindergarten Methods and Material.</u> 4 credits. Prerequisites: 5200:330; 7400:265. Scope and sequence of kindergarten curricula, with emphasis on developmentally appropriate methods and materials.

#### ED-91-11

Department of Elementary Education

Revise the program in Pre-Kindergarten Validation as follows:

Add the following existing courses:

Add	7400:280	<u>Creative Activities for Pre-Kindergarten Programs.</u> 4 credits.
	7400:270	<u>Theory and Guidance of Play.</u> 3 credits.
	5200:310	<u>Introduction to Early Childhood Education.</u> 3 credits.
	5200:315	<u>issues and Trends in Early Childhood Education.</u> 3 credits

Program Credit Hour Change:

Total Program Credit Hours Required:	<u>TO</u> 20
Total Required Credit Hours:	<u>TO</u> 20
Total Elective Credit Hours:	<u>TO</u> 0



1-91-12

## Elementary Education (Effective Fall 1992)

Revise the Pre-Kindergarten Certification as follows:

## Course Changes:

Title	5200:200	<u>Student Participation. 1 credit. TO</u>
Credit		<u>Pre-Kindergarten Participation I. 1 credit (30 field hours).</u>
Prerequisite		<u>Prerequisites: 7400:265; 2200:245.</u>
Description		Planned field experience in a pre-kindergarten infant/toddler classroom where students work with children age birth to 3 years both individually and in small groups.(Effective Fall 1991)
	5200:300	<u>Student Participation. 1 credit. TO</u>
		<u>Pre-Kindergarten Participation II. 1 credit (30 field hours).</u>
		<u>Prerequisites: 5200:200 and 5610:450 (co-requisite).</u>
		Planned field experience in pre-kindergarten early intervention program where student works with individual children, small and large groups. (Effective Fall 1991)
Credits	5200:310	<u>Introduction to Early Childhood Education. 3 credits. TO</u>
		<u>Introduction to Early Childhood Education. 3 credits (10 clinical hours).</u> (Effective Fall 1991)
	5200:315	<u>Issues and Trends in Early Childhood Education. 3 credits. TO</u>
		<u>Issues and Trends in Early Childhood Education. 3 credits (10 clinical hours).</u> (Effective Fall 1991)
Credits	5200:360	<u>Teaching in the Nursery Center. 2 credits. TO</u>
Prerequisite		<u>Teaching in the Nursery Center. 2 credits (10 clinical hours).</u>
		<u>Prerequisites: 5200:310; 7400:270; 7400:280; or permission of instructor. Corequisite: 5200:370.(Effective Fall 1991)</u>
	5200:370	<u>Nursery Center Laboratory. 2 credits. TO</u>
		<u>Nursery Center Laboratory.. 2 credits (53 clinical hours).</u>
		<u>Prerequisites: 5200:310; 7400:270; 7400:280; or permission of instructor. Corequisite: 5200:360. (Effective Fall 1991)</u>

Add the following new course:

Add	5200:355	<u>Language and Literacy in Early Childhood. 3 credits.</u>
		<u>Prerequisite: 7400:265. A framework for the development of literacy from birth to age 8. Factors influencing emerging literacy will be explored. Emphasis on young children's literature.</u>



Add the following existing courses:

Add	5050:210	<u>Characteristics of Learners.</u> 3 credits.
	7400:448	<u>Before and After School Child Care.</u> 2 credits.
	5550:336	<u>Motor Learning and Development for Early Childhood.</u> 2 credits.
	7400:303	<u>Children As Consumers.</u> 3 credits.
	5200:403	<u>Student Teaching Seminar.</u> 1 credit (15 clinical hours).

Delete the following from the program:

Drop	5200:286	Children's Literature. 3 credits.
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Delete from the program and University offerings:

Drop	5100:250	Human Development and Learning. 3 credits.
	520:350	Multicultural Education. 3 credits.

#### ED-91-13

Department of Secondary Education (Effective Fall 1992)

Revise the Secondary Education Program as follows:

Add the following new courses:

Add	5300:311	<u>Instructional Techniques in Secondary Education.</u> 5 credits Prerequisites: 5050:210; 5050:211; 5050:320; 5050:330. Corequisites: 5050:311; 5050:310. An investigation for prospective teachers of educational methods through examination of theories, study of teaching processes, preparation of instructional materials, and practical experience.
	5300:496	<u>Student Teaching Colloquium.</u> 1 credit. Prerequisite: 5300:311. Corequisite: 5300:495. Concurrent with student teaching; emphasis on applied decision making, group problem-solving, and commitment to lifelong learning.

Add the following existing courses:

Add	5300:375	Exploratory Experiences. 1 credit.
	5300:445	Microcomputer Applications. 2 credits.
	5300:495	Student Teaching in Secondary Education. 8 credits.



**Delete from the program:**

Drop	5300:325	Content Reading in Secondary Schools. 3 credits.
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**Delete from the program and University offerings:**

**Drop 5300:210 Principles of Secondary Education. 3 credits.**

**5300:275** Exploratory Experiences in Secondary Education. 1 credit.

5300:485 Classroom Dynamics. 2 credits.  
(Effective Fall 1993)

**Program Credit Hour Change:**

**Total Program Credit Hours Required: TO 137**

**Total Required Credit Hours: TO 137**

1-91-14

Department of Secondary Education

**Revise the Visual Arts 7-12 Certification as follows:**

Add the following new courses:

Add	5300:316	<u>Methods of Teaching Secondary Art.</u> 3 credits. Prerequisite: admission to Teacher Education Program, Art K-12 or 7-12. Explanation of art education concepts including heritage, aesthetics, criticism, and studio structure in secondary schools. Knowledge of adolescent art including curriculum needs and instructional methods.
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**Add the following existing courses:**

Choose one course from the following:

Add	7100:213	Introduction to Lithography. 3 credits
	OR	
	7100:214	Introduction to Screen Printing. 3 credits.
	OR	
	7100:215	Introduction To Relief Printing. 3 credits.
	7100:275	Introduction to Photography. 3 credits
	7100:184	Introduction to Graphic Design. 3 credits.

Choose one course from the following:

7100:222	Introduction to Sculpture. 3 credits
7100:266	Introduction to Metalsmithing. 3 credits.
7100:293	Introduction to Fiber Arts. 3 credits.

Delete from the program:

Drop	7100:144	Two-Dimensional Design. 3 credits.
	7100:185	Computer Graphics for Art I. 3 credits.
	5300:375	Exploratory Experience. 1 credits.

Program Credit Hour Change:

Total Program Credit Hours Required: TO 16

Total Required Credit Hours: TO 16

Revise the Visual Arts K-12 Certification as follows:

Add the following new courses:

Add	5300:316	<p><u>Methods of Teaching Secondary Art.</u> 3 credits.            Prerequisite: admission to Teacher Education Program, Art K-12 or 7-12. Explanation of art education concepts including heritage, aesthetics, criticism, and studio structure in secondary schools. Knowledge of adolescent art including curriculum needs and instructional methods.</p>
	5200:334	<p><u>Teaching Art in the Elementary School.</u> 3 credits.            Prerequisite: admission to Teacher Education Program, Art K-12. Visual Arts in Elementary Schools. Art Education concepts with studio orientation including history of art education, developmental stages, curriculum and organizational methods, evaluation and research, and practice participation.</p>
	5300:495	<p>Student Teaching Art K-12. 11 credits. Prerequisite: senior status and permission of instructor. Directed teaching under supervision of directing teacher and university supervisor.</p>

Change from elective to required:

7100:401	Nuseology. 1 credit.
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## Delete from the program:

Drop	7100:185	Computer Graphics for Art I. 3 credits.
	7100:184	Introduction to Graphic Design. 3 credits.
	5300:375	Exploratory Experience. 1 credit.
	5300:495	Student Teaching Art K-12. 8 credits.

## Program Credit Hour Change:

Total Program Credit Hours Required: T0 19Total Required Credit Hours: T0 19-91-15

## Department of Secondary Education

Revise the Business Education Certification program as follows:

Add the following new courses:

Add	5300:475/575	<u>Vocational Business Education</u> . 3 credits. Prerequisite: senior status or permission. Principles of program construction, organization, implementation, evaluation, improvement, and development of program guides for both intensive and cooperative vocational business education.
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Delete from the program and University offerings:

Drop	5300:476/576	Vocational Cooperative Office Education. 2 credits.
	5300:477/577	Intensive Vocational Education. 2 credits.

## Program Credit Hour Change:

Total Program Credit Hours Required: T0 137-140Total Required Credit Hours: T0 137-140-91-16

## Department of Technical and Vocation Education (Effective Fall 1992)

Revise the Bachelor of Science in Technical Education as follows:

Add the following new courses:

Add	5400:400/500	<u>The Postsecondary Occupational Learner</u> . 3 credits. Describes the postsecondary occupational learner; studies issues, factors, and strategies pertinent to successful facilitation of learning in a variety of postsecondary occupational learning environments.
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5400:420	<u>Instructional Technologies for Technical Education/Training.</u> 3 credits. This course will provide experiences in planning, preparing, producing, and evaluating instructional technologies used in a variety of postsecondary occupational education and training environments.
5400:431/531	<u>Curriculum Development for Technical Education Lab.</u> 1 credit. Prerequisite: admission to the Technical Education Program. Corequisite: 5400:430/530. The development of a curriculum for a technical postsecondary program.
5400:435/535	<u>Instructional Techniques in Technical Education.</u> 4 credits. Prerequisite: 5400:430/530. Selected topics of instructional techniques appropriate to postsecondary technical education. Emphasis is placed on instructional methods, techniques in the classroom, laboratory including tests, and measurements.

Delete from the program:

Drop	5100:250	Human Development and Learning. 3 credits.
	5100:450	Problems in Education. 2 credits.

Delete from the program and University offerings:

Drop	5400:421/521	Instructional Techniques in Technical Education. 4 credits.
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Course changes:

Title	5400:430/530	<u>Course Construction in Technical Education.</u> 2 credits. <u>TO Curriculum Development in Technical Education.</u> 2 credits.
Prerequisite		Prerequisite: admission into the Technical Education program. The procedure of breaking down an occupation to determine the curriculum for the laboratory and the classroom, and how to develop this content into an organized sequence of instructional units.
Description		

#### ED-91-17

Department of Physical and Health Education (Effective Fall 1992)

Revise the Physical Education program as follows:

Delete from the program:

Drop	5550:150	Concepts in Health and Fitness. 3 credits.
	5550:194	Sports Officiating. 2 credits.
	5550:300	Physiology of Exercise fo the Adult and Elderly. 2 credits.



5550:310	Theory and Techniques of Soccer. 1 credit.
5550:311	Theory and Techniques of Track and Field. 1 credit.
5550:312	Theory and Techniques of Basketball. 1 credit.
5550:313	Theory and Techniques of Baseball/Softball. 1 credit.
5550:314	Theory and Techniques of Swimming. 2 credits.
5550:315	Theory and Techniques of Tumbling and Gymnastics. 1 credit.
5550:320	Theory and Techniques of Volleyball. 1 credit.
5550:325	Theory and Techniques of Football. 1 credit.
5550:340	Care and Prevention of Athletic Injuries. 3 credits.
5550:395	Field Experience. 1-3 credits.
5550:430	Senior Honors Project: Physical Education. 1-6 credits.
5550:436/536	Adapted Physical Education Tasks for the Learning Disabled Child. 2 credits.
5550:441/541	Advanced Athletic Injury Management. 4 credits.
5550:442/542	Therapeutic Modalities and Equipment in Sports Medicine. 3 credits.
5550:460	Practicum in Physical Education. 3-6 credits.
5550:475	Seminar in Health and Physical Education. 3 credits.
5550:480	Special Topics: Physical Education. 1-4 credits.
5550:490,1,2,3/590,1,2,3	Workshop. 1-3 credits.
5550:494/594	Educational Institutions and Foundations. 1-4 credits.
5550:497	Independent Study. 1-2 credits.

Delete from program and University offerings:

Drop	5550:101	Fundamentals of Archery/Bowling. 1 credit.
	5550:102	Fundamentals of Badminton/Volleyball. 1 credit.
	5550:103	Fundamentals of Soccer/Field Hockey. 1 credit.
	5550:104	Fundaments of Track and Field. 1 credit.

5550:105	Recreational Activities. 1 credit.
5550:106	Recreational Activities for the Handicapped. 1 credit.
5550:115	Fundamentals of Wrestling/Rugby. 1 credit.
5550:120	Fundamentals of Basketball. 1 credits.
5550:140	Physical Education Activities I. 3 credit.
5550:141	Physical Education Activities II. 3 credits.
5550:155	Organization and Administration of Recreation. 2 credits.
5550:326	Theory and Techniques of Wrestling. 1 credit.
5550:351	Organization and Administration of Intramurals and Athletics. 3 credits.

## Course Changes:

Title Description	5550:193	<u>Methods of Teaching Physical Education. 2 credits. TO</u> <u>Orientation to Teaching Physical Education. 3 credits.</u> Investigation of teaching elementary, middle school, secondary physical education. Teacher concerns such as lesson planning are considered. Observations done in school settings. Three hours, lecture.
	5550:211	<u>First Aid. 2 credits. TO</u> <u>First Aid and CPR. 2 credits.</u> Based on American Red Cross standards for first aid and cardiopulmonary resuscitation. Instruction and skills practice for sudden illness/emergencies is provided. Two hours lecture.
	5550:336	<u>Physical Education Activities for Preschool Children. 2 credits.</u> <u>TO</u> <u>Motor Learning and Development for Early Childhood.</u> 2 credits. Physical fitness, fundamental motor skills, motor development and learning for early childhood birth to age eight. Creating an environment of motor experiences for young children.
Number Description	5550:202 5550:302	<u>Physiology of Exercise. 3 credits. TO</u> <u>Physiology of Exercise. 3 credits.</u> A course designed to study the physiological effects of exercise relative to physical education activities, athletics and athletic training. Two hours lecture, two hours laboratory.



5550:105	Recreational Activities. 1 credit.
5550:106	Recreational Activities for the Handicapped. 1 credit.
5550:115	Fundamentals of Wrestling/Rugby. 1 credit.
5550:120	Fundamentals of Basketball. 1 credits.
5550:140	Physical Education Activities I. 3 credit.
5550:141	Physical Education Activities II. 3 credits.
5550:155	Organization and Administration of Recreation. 2 credits.
5550:326	Theory and Techniques of Wrestling. 1 credit.
5550:351	Organization and Administration of Intramurals and Athletics. 3 credits.

## Course Changes:

Title Description	5550:193	<u>Methods of Teaching Physical Education. 2 credits. TO</u> <u>Orientation to Teaching Physical Education. 2 credits.</u> Investigation of teaching elementary, middle school, secondary physical education. Teacher concerns such as lesson planning are considered. Observations done in school settings. Three hours, lecture.
	5550:211	<u>First Aid. 2 credits. TO</u> <u>First Aid and CPR. 2 credits.</u> Based on American Red Cross standards for first aid and cardiopulmonary resuscitation. Instruction and skills practice for sudden illness/emergencies is provided. Two hours lecture.
	5550:336	<u>Physical Education Activities for Preschool Children. 2 credits.</u> <u>TO</u> <u>Motor Learning and Development for Early Childhood.</u> 2 credits. Physical fitness, fundamental motor skills, motor development and learning for early childhood birth to age eight. Creating an environment of motor experiences for young children.
Number Description	5550:202 5550:302	<u>Physiology of Exercise. 3 credits. TO</u> <u>Physiology of Exercise. 3 credits.</u> A course designed to study the physiological effects of exercise relative to physical education activities, athletics and athletic training. Two hours lecture, two hours laboratory.



Number	5550:350	<u>Organization and Administration Health and Physical Education.</u> 3 credits. <u>TO</u>
Title		
Description	5550:450	<u>Organization and Administration of Physical Education, Intramurals, and Athletics.</u> 3 credits. Investigation of procedures for conducting physical education, intramural, and athletic programs. Includes tournament designs, supplies and equipment, liability, curriculum, and general administration. Three hours lecture.

Add the following new courses:

Add	5550:102	<u>Physical Education Activities I: Fitness and Contemporary Activities.</u> 2 hours. Presentation of knowledge, fundamental skill development, and psychomotor skill analysis for the content areas of fitness and contemporary activities. One hour lecture, two hours lab.
	5550:195	<u>Concepts of Games and Play.</u> 2 credits. Concept analysis of games and play and application of these concepts to the teaching/learning process in physical education. Two hours lecture.
	5550:201	<u>Kinesiology.</u> 3 credits. Prerequisites: 3100:206, 3100:207. Application of basic principles of anatomy and mechanics to human movement. Three hours lecture with practical application and demonstrations.
	5550:202	<u>Diagnosis of Motor Skills.</u> 2 credits. Prerequisite: 5550:201. This course introduces physical education majors to the science of diagnosing motor skills. One hour lecture, two hours lab.
	5550:203	<u>Measurement and Evaluation in Physical Education.</u> 3 credits. Statistical procedures needed for analysis and interpretation of tests. Evaluation procedures, testing instruments, and techniques for administering tests are discussed and practiced. Three hours lecture.
	5550:204	<u>Physical Education Activities II: Soccer and Swimming.</u> 2 credits. Course presents knowledge, fundamental skill development, and psychomotor skill analyses for the content areas of soccer and swimming. One hour lecture, two hours lab.
	5550:205	<u>Physical Education Activities III: Basketball and Track/Field.</u> 2 credits. Course presents knowledge, fundamental skill development, and psychomotor skill analysis relative to areas of basketball and track and field. One hour lecture, two hours lab.



- 5550:235      Concepts of Motor Learning and Development. 3 credits. This course will introduce key motor learning concepts and analysis of developing fundamental motor skills. Three hours lecture.
- 5550:245      Adapted Physical Education. 3 credits. Identification of atypical movement among various exceptional individuals, with adapted physical education programming experience in a laboratory setting. Two hours lecture and two hours lab.
- 5550:306      Physical Education Activities IV: Badminton and Golf. 2 credits. Course presents knowledge, fundamental skill development, and psychomotor skill analysis for the content areas of badminton and golf. One hour lecture, two hours lab.
- 5550:307      Physical Education Activities V: Tennis and Volleyball. 2 credits. Course presents knowledge fundamental skill development, and psychomotor skill analysis for the content areas of tennis and volleyball. One hour lecture, two hour lab.
- 5550:308      Physical Education Activities VI: Dance and Tumbling. 2 credits. Course presents knowledge, fundamental skill development, and psychomotor skill analysis for the content areas of dance and tumbling. One hour lecture, two hours lab.
- 5550:334      Games and Rhythms for Elementary School Children. 3 credits. Emphasis is on acquisition and development of fundamental motor skills, rhythmic movements, and physical fitness among elementary school children. Two hours lecture, two hours lab.
- 5550:335      Movement Experience for Elementary Children. 3 credits. Prerequisites: 5550:130; 193; 235; 245. Course focuses on use of fundamental motor skill analysis to structure movement lesson planning and implementation for school settings. One hour lecture, two hours lab.
- 5550:345      Instructional Techniques in Elementary Physical Education. 3 credits. Prerequisites: 5550:130; 193; 195; 235; 335. Microteaching experience with the purpose being to improve pre-service instructional skills for effective teaching of elementary physical education. Two hours lecture, two hours lab.
- 5550:346      Instructional Techniques in Secondary Physical Education. 3 credits. Prerequisites: 5550:193; 102; 204-205; 306-307. Presentation of various teaching styles/skills/behaviors for effective teaching of secondary physical education via microteaching. Two hours lecture, two hours lab.



- 5550:452      Foundations of Physical Education. 3 credits. Overview of the emergence of physical education as a profession and the supporting role of underlying scholarly and scientific disciplines. Three hours lecture.
- 5550:494      Student Teaching Colloquium for Physical and Health Education. 2 credits. Prerequisites: core courses, program studies courses. Students meet during student teaching to discuss concerns about student teaching and analyze previous learning as it relates to their future as a professional educator.

ED-91-18

Department of Physical and Health Education (Effective Fall 1992)

Revise the Health Education K-12, 7-12 program as follows:

Add the following new courses:

- Add      2260:240      Chemical Dependency I. 3 credits. Prerequisite: 5570:101. This course provides an introduction to the field of drug misuse and abuse, pharmacology, basic helping and crisis intervention skills, motivations, and theories of treatment.
- 5570:204      Foundations in Health Education. 3 credits. Prerequisite: 5570:101. History and philosophy of health education as a discipline; professionalism and administration in health education are considered.
- 5570:323      Methods and Materials of Teaching Health Education. 3 credits. Prerequisites: 5570:101; 201; 320. Planning, organization, use of instructional resources and delivery of health education content and teaching processes (K-12). Three hours lecture.
- 5570:350      Measurement and Evaluation in Health Education. 3 credits. Prerequisites: 5570:101; 201; 202; 320; 321. Presentation of measurement inventories and evaluation techniques in health education. Testing instruments, administering tests and evaluation procedures are discussed and practiced. Three hours lecture.

Delete from the program:

- Drop      5570:201      Consumer Health, Weight Control and Exercise. 3 credits.
- 5570:532      Methods and Materials in Elementary School Health Education. 2 credits.
- 5570:323      Methods and Materials in Secondary School Health Education. 2 credits.



## Course changes:

Title	5550:495	<u>Student Teaching for Physical and Health Education.</u> 8 credits <u>TO</u> 10 credits.
Description:		Prerequisites: senior status, all major courses completed, 2.50 grade-point average in major. Supervised teaching experience in a public school for 15 weeks.
Title	5570:320	<u>Community Hygiene.</u> 2 credits. <u>TO</u>
Description		<u>Community Health.</u> 2 credits. Study of current public health problems. Organization and administration of various agencies and their role in the solution of community health problems. Two hours lecture.
Number	5570:200	<u>Current Topics in Health Education.</u> 3 credits. <u>TO</u>
Prerequisite	5570:332	<u>Current Topics in Health Education.</u> 3 credits.
Description		Prerequisites: 5570:101; 201; 320. Skills needed to do research, teach, and present current health education topics in a factual and comfortable manner in schools and community. Three hour lecture.

## Program Credit Hour Change:

Total Program Credit Hours Required: TO 53Total Required Credit Hours: TO 128Total Elective Credit Hours: TO 5-91-19

## Department of Counseling and Special Education

Revise the Developmentally Handicapped program as follows:

Delete from the program:

Drop	5610:403	Senior Seminar: Special Education. 2 credits. (Effective Fall 1993)
	5610:467/567	Classroom Behavior Management. 3 credits. (Effective Fall 1992)
	5610:480	Student Teaching: Developmentally Handicapped. 14 credits. (Effective Fall 1993)

Add the following new courses:

Add	5610:403	<u>Student Teaching Colloquium: Special Education.</u> 1 credit. Prerequisite: senior status in conjunction with student teaching. Corequisites: 5610:480 or 5610:481, or 5610:482, or 5610:483, or 5610:484, 5050:401. An examination of problems, issues, and practices encountered during the student teaching experience. (Effective Fall 1993)
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THE UNIVERSITY OF AKRON  
PROGRAM SUMMARY FORM D

Attachment 6

1. Proposed Action:

       New Program

  X   Revise Program

2. Program Title Change:

From: Physical Education 5550

To: Same

3. Effective Date: Fall Term 1991 Year

4. Rationale: (If more space is needed, attach additional sheet).

The proposed revised program reflects changes as it relates to Project 21 recommendations, State of Ohio standards, NCATE, AAHPERD, NASPE guidelines and current research practice. These changes will professionally prepare high-quality physical education teachers to teach in elementary and secondary education.

5. Resource Statement:

Resources are available in the present program for the revised program; however, one new faculty is needed for the existing as well as the new program.

6. Course Addition Summary: (include Number, Title, Credits and Course Form A)

New Courses:

5550:195 Concepts of Games and Play - 2 credit hours

5550:202 Diagnosis of Motor Skills - 2 credit hours

5550:203 Measurement and Evaluation in  
Physical Education - 3 credit hours

5550:452 Foundations of Physical Education - 3 credit hours

Existing Courses:

See Attachment I



7. Course Deletion Summary: (include Number, Title, Credits and Course Form B)

Delete from Program:

See Attachment I

Delete from Program and University Offering:

See Attachment I

8. Course Changes: (credits, prerequisites, etc.) (Attach Course Form C)

See Attachment I

9. Other Program Changes: (i.e., description, general requirements, etc.):

10. Program Credit Hour Change:

Physical Education (K-12)

Total Program Credit Hours Required:

From: 47 To: 62

Total Required Credit Hours:

From: 128 To: 128

Total Elective Credit Hours:

From N/A To: N/A

Physical Education (7-12)

Total Program Credit Hours Required:

From: 36 To: 37

Total Required Credit Hours:

From: 128 To: 128

Total Elective Credit Hours:

From N/A To: N/A

11. Effective Date: Fall Term 1991 Year

12. General Bulletin Description (follow Bulletin Format):

5550: Physical Education;\* 5560: Outdoor Education;\*\* and  
5570: Health Education\*

Undergraduate programs in the Department of Physical Education and Health Education lead to state certification in health and physical education (7-12 and K-12). There is also a school nurse certification program, as well as one in dance. State validation is also available in adapted physical education.

- 5610:467/567      Management Strategies in Special Education. 3 credits.  
Prerequisite: 5050:210; 5050:211; 5050:320; 5050:330;  
5610:440; and one of the following: 5610:441; 5610:443;  
5610:445; 5610:446. Content emphasizing the development o  
application strategies with a variety of behavior manageme  
models for mediation of behaviors with exceptional  
individuals. (Effective Fall 1992)
- 5610:480      Student Teaching: Developmentally Handicapped. 12 credit.  
Prerequisites: senior status; completion of program  
requirements; permission. Corequisites: 5610:403;  
5050:410. Two full-time, eight-week supervised teaching  
experiences in special education classes at the elementary  
and secondary levels. (Effective Fall 1993)

Program Credit Hour Change:

Total Program Credit Hours Required:	<u>T0</u>	128
Total Required Credit Hours:	<u>T0</u>	124
Total Elective Credit Hours:	<u>T0</u>	4

ED-91-20

Department of Counseling and Special Education (Effective Fall 1992)

Revise the program in Specific Learning Disabled as follows:

Delete from the program:

- |      |              |                                                                                    |
|------|--------------|------------------------------------------------------------------------------------|
| Drop | 5610:403     | Senior Seminar: Special Education. 2 credits.<br>(Effective Fall 1993)             |
|      | 5610:467/567 | Classroom Behavior Management. 3 credits.<br>(Effective Fall 1992)                 |
|      | 5610:481     | Student Teaching: Specific Learning Disabled. 14 credits.<br>(Effective Fall 1993) |

Add the following new courses:

- |     |          |                                                                                                                                                                                                                                                                                                                                                                    |
|-----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Add | 5610:403 | <u>Student Teaching Colloquium: Special Education.</u> 1 credits<br>Prerequisites: senior status in conjunction with student<br>teaching. Corequisites: 5610:480; or 5610:481; or<br>5610:482; or 5610:483; or 5610:484; 5050:401. An<br>examination of problems, issues, and practices encountered<br>during the student teaching experience.(Effective Fall 1993 |
|-----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



5610:467/567 Management Strategies in Special Education. 3 credits.  
Prerequisite: 5050:210; 5050:211; 5050:320; 5050:330;  
5610:440; and one of the following: 5610:441; 5610:443;  
5610:445; 5610:446. Content emphasizing the development of  
application strategies with a variety of behavior management  
models for mediation of behaviors with exceptional  
individuals. (Effective Fall 1992)

5610:481 Student Teaching: Specific Learning Disabled. 12 credits.  
Prerequisites: senior status; completion of program  
requirements; permission. Corequisites: 5610:403;  
5050:410. Two full-time, eight-week supervised teaching  
experiences in special education classes at the elementary  
and secondary levels. (Effective Fall 1993)

Program Credit Hour Change:

Total Program Credit Hours Required: TO 128

Total Required Credit Hours: TO 123

Total Elective Credit Hours: TO 5

-91-21

Department of Counseling and Special Education (Effective Fall 1992)

Revise the program in Severe Behavior Handicapped as follows:

Delete from the program:

Drop 5610:403 Senior Seminar: Special Education. 2 credits.  
(Effective Fall 1993)

5610:467/567 Classroom Behavior Management. 3 credits.  
(Effective Fall 1992)

5610:483 Student Teaching: Severe Behavior Handicapped. 14 credits.  
(Effective Fall 1993)

Add the following new courses:

Add 5610:403 Student Teaching Colloquium: Special Education. 1 credits.  
Prerequisites: senior status in conjunction with student  
teaching. Corequisites: 5610:480; or 5610:481; or  
5610:482; or 5610:483; or 5610:484; 5050:401. An  
examination of problems, issues, and practices encountered  
during the student teaching experience. (Effective Fall 1993)



- 5610:467/567 Management Strategies in Special Education. 3 credits.  
Prerequisite: 5050:210; 5050:211; 5050:320; 5050:330;  
5610:440; and one of the following: 5610:441; 5610:443;  
5610:445; 5610:446. Content emphasizing the development of  
application strategies with a variety of behavior management  
models for mediation of behaviors with exceptional  
individuals. (Effective Fall 1992)
- 5610:483 Student Teaching: Severe Behavior Handicapped. 12 credits  
Prerequisites: senior status; completion of program  
requirements; permission. Corequisites: 5610:403;  
5050:410. Two full-time, eight-week supervised teaching  
experiences in special education classes at the elementary  
and secondary levels. (Effective Fall 1993)

**Program Credit Hour Change:**

Total Program Credit Hours Required: TO 128-130  
Total Required Credit Hours: TO 126  
Total Elective Credit Hours: TO 2-4

ED-91-22

Department of Counseling and Special Education (Effective Fall 1992)

Revise the program in Orthopedically Handicapped as follows:

Delete from the program:

- |      |              |                                                                                               |
|------|--------------|-----------------------------------------------------------------------------------------------|
| Drop | 5610:401     | Senior Seminar: Special Education. 2 credits<br>(Effective Fall 1993)                         |
|      | 5610:457/557 | Special Education Programming: Orthopedically Handicapped<br>3 credits. (Effective Fall 1992) |
|      | 5610:458/558 | Interdisciplinary Programming in Special Education.<br>3 credits. (Effective Fall 1992)       |
|      | 5610:467/567 | Classroom Behavior Management. 3 credits.<br>(Effective Fall 1992)                            |
|      | 5610:482     | Student Teaching: Orthopedically Handicapped. 14 credits<br>(Effective Fall 1993)             |

Add the following new courses:

- |     |          |                                                                                                                                                                                                                                                                                                                                                                     |
|-----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Add | 5610:403 | <u>Student Teaching Colloquium: Special Education</u> . 1 credit.<br>Prerequisite: senior status in conjunction with student<br>teaching. Corequisite: 5610:480; or 5610:481; or 5610:482;<br>or 5610:483; or 5610:484; 5050:401. An examination of<br>problems, issues, and practices encountered during the<br>student teaching experience. (Effective Fall 1993) |
|-----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



- 5610:453/553 Special Education Programming: Severely Handicapped I. 3 credits. Prerequisites: 5610:441/541 or 5610:445/545, and 5610:465/565; 7700:481/697. Study of philosophical basis of instruction, assessment practices, family integration into service delivery, inter/transdisciplinary practices, IEP/IHP development, and program development for the severely handicapped. (Effective Fall 1992)
- 5610:454/554 Special Education Programming: Severely Handicapped II. 3 credits. Prerequisites: 5610:441/541 or 5610:445/545; 5610:453/553; 5610:456/565; and 7700:481/697. Advanced program design for teaching persons with severe handicaps. Focuses on program planning, evaluation of student progress, developing instructional materials, and planning for community transition. (Effective Fall 1992)
- 5610:467/567 Management Strategies in Special Education. 3 credits. Prerequisite: 5050:210; 5050:211; 5050:320; 5050:330; 5610:440; and one of the following: 5610:441; 5610:443; 5610:445; 5610:446. Content emphasizing the development of application strategies with a variety of behavior management models for mediation of behaviors with exceptional individuals. (Effective Fall 1992)
- 5610:482 Student Teaching: Orthopedically Handicapped. 12 credits. Prerequisites: senior status; completion of program requirements; permission. Corequisites: 5610:403; 5050:410. Two full-time, eight-week supervised teaching experiences in special education classes at the elementary and secondary levels. (Effective Fall 1993)

Program Credit Hour Change:

Total Program Credit Hours Required:	<u>T0</u>	133
Total Required Credit Hours:	<u>T0</u>	133
Total Elective Credit Hours:	<u>T0</u>	0

)-91-23

Department of Counseling and Special Education

Revise the Multihandicapped program as follows:

Delete from the program:

Drop	5610:403	Senior Seminar: Special Education. 2 credits. (Effective Fall 1993)
	5610:454/554	Special Education Programming: Multihandicapped. 4 credits. (Effective Fall 1992)



- 5610:458/558      Interdisciplinary Programming in Special Education.  
3 credits. (Effective Fall 1992)
- 5610:467/567      Classroom Behavior Management. 3 credits.  
(Effective Fall 1992)
- 5610:484           Student Teaching: Multihandicapped. 14 credits.  
(Effective Fall 1993)

Add the following new courses:

- |     |              |                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Add | 5610:403     | <u>Student Teaching Colloquium: Special Education.</u> 1 credit<br>Prerequisite: senior status in conjunction with student teaching. Corequisite: 5610:480; or 5610:481; or 5610:482 or 5610:483; or 5610:484; 5050:401. An examination of problems, issues, and practices encountered during the student teaching experience. (Effective Fall 1993)                                                      |
|     | 5610:453/553 | <u>Special Education Programming: Severely Handicapped I.</u><br>3 credits. Prerequisites: 5610:441/541 or 5610:445/545, and 5610:465/565; 7700:481/697. Study of philosophical basis of instruction, assessment practices, family integration into service delivery, inter/transdisciplinary practices, IEP/IHP development, and program development for the severely handicapped. (Effective Fall 1992) |
|     | 5610:454/554 | <u>Special Education Programming: Severely Handicapped II.</u><br>credits. Prerequisites: 5610:441/541 or 5610:445/545; 5610:453/553; 5610:456/565; and 7700:481/697. Advanced program design for teaching persons with severe handicaps. Focuses on program planning, evaluation of student progress, developing instructional materials, and planning for community transition. (Effective Fall 1992)   |
|     | 5610:467/567 | <u>Management Strategies in Special Education.</u> 3 credits.<br>Prerequisite: 5050:210; 5050:211; 5050:320; 5050:330; 5610:440; and one of the following: 5610:441; 5610:443; 5610:445; 5610:446. Content emphasizing the development of application strategies with a variety of behavior management models for mediation of behaviors with exceptional individuals. (Effective Fall 1992)              |
|     | 5610:484     | <u>Student Teaching: Multihandicapped.</u> 12 credits.<br>Prerequisites: senior status; completion of program requirements; permission. Corequisites: 5610:403; 5050:410. Two full-time, eight-week supervised teaching experiences in special education classes at the elementary and secondary levels. (Effective Fall 1993)                                                                            |



## Program Credit Hour Change:

Total Program Credit Hours Required: TO 131Total Required Credit Hours: TO 131Total Elective Credit Hours: TO 0-91-24

Department of Counseling and Special Education

Add 5600:756 Outcome Research in Marriage and Family Therapy. 3 credits. Prerequisite: 5600:667; 5100:640; 5100:741. This course will provide an in-depth examination of marriage and family therapy outcome research.

## COLLEGE OF ENGINEERING

-91-1

Department of Mechanical Engineering

Add 4600:711 Computational Fluid Dynamics II. 3 credits. Prerequisites: 4600:611 or permission of instructor. Development of advanced computational techniques for convection-dominated flows. Higher order explicit and implicit schemes including nonoscillatory front-capturing methods applied to benchmark problems.

-91-2

College of Engineering (all departments)

Revise admission requirements for the doctoral program in the College of Engineering as follows:

DOCTOR OF PHILOSOPHY IN ENGINEERING

The Doctor of Philosophy in Engineering is an interdisciplinary doctoral program offered on a collegiate basis.

ADMISSION REQUIREMENTS

In addition to the University's requirements for admission to the doctoral program, an applicant for the Doctor of Philosophy in Engineering must hold a bachelor's degree from a program that is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology at the time of graduation, or provide satisfactory evidence of an equivalent academic background to the dean of engineering and the appropriate department head.

If a student already holds a master's science degree, the applicant must provide satisfactory evidence of an equivalent engineering baccalaureate background to the dean of Engineering and the appropriate department head.



Applicants with a bachelor's or master's degree in a discipline other than engineering will be required to complete a specific, formal set of courses as specified by the appropriate department prior to admission to the doctoral program in engineering.

Each applicant must submit official undergraduate transcripts, undergraduate grade point average, at least two letters of recommendation, and official results of the verbal, quantitative, and analytical portions of the GRE. Personal statements or descriptions of post-baccalaureate experience that provide a rationale for the proposed graduate study may also be submitted.

An applicant with a bachelor's degree must have a cumulative grade point average of at least 3.0.

An applicant with a master's degree must have a cumulative graduate grade point average of at least 3.5.

Applicants whose native language is not English must have a TOEFL score of at least 55 and must submit their score on the Test of WRitten English (TWE).

A student not satisfying the requirements for FULL ADMISSION may be classified as PROVISIONAL ADMISSION or a DEFERRED ADMISSIONS.

#### DOCTORAL REQUIREMENTS

In addition to meeting the University's doctoral degree requirements, the student must

Pass a departmental Qualifying Examination. The purpose of the qualifying examination is to determine admissibility to the doctoral program and any technical weakness.

Identify an interdisciplinary field of major study, a minor field of study, dissertation director, and an Interdisciplinary Doctoral Committee.

Complete a formal plan of study that is acceptable to the Interdisciplinary Doctoral Committee. The plan of study must have at least 48 credits of course work, of which 42 credits must be at the 600 and 700 level. At least 24 of these course credits must be completed at The University of Akron. The minimum total credit hours for the doctoral program is 96 credit hours.

Satisfy the language requirement specified by the Interdisciplinary Doctoral Committee.

Pass a Candidacy Examination. The purpose of the candidacy examination is to test the student's ability to conduct independent research.

Present an acceptable Dissertation Proposal that describes the proposed research to the Interdisciplinary Doctoral Committee.

Present and defend the dissertation to the Interdisciplinary Doctoral Committee.



## Program Credit Hour Change:

Total Program Credit Hours Required: T0 96Total Required Course Credit Hours: T0 48Total Research Credit Hours: T0 48-91-4

## Department of Mechanical Engineering

Add 4600:165 Tools for Mechanical Engineering. 3 credits. Personal computer DOS system. Word processing. Spreadsheet. Computer aided drafting. Math calculating package. Mechanical graphics.

Drop 4600:160 Engineering Design: Mechanical Engineering. 2 credits.

4600:125 Engineering Graphics. 2 credits.

-91-7

## Department of Electrical Engineering

Prerequisite 4400:480/580 Symmetrical Components. 3 credits. T0  
Prerequisite: 4400:381.

-91-10

## Department of Electrical Engineering

Number 4400:483 Power Electronics Circuits and Components. 4 credits. T0  
Title 4400:483/583 Power Electronics I. 3 credits.  
Credits  
Prerequisite: 4400:381.  
Prerequisite

-91-12

## Department of Electrical Engineering

Prerequisite 4400:646 Digital Signal Processing. 3 credits. to  
site  
Description  
Prerequisite: 4400:333. Relations between continuous- and discrete-time Fourier expansions. Sampling, aliasing, sampling rate conversion. Operator concepts in signal processing, all-pass systems, FFT, digital filter design.

EN-91-13

Department of Electrical Engineering

Add 4400:647 Digital Spectral Analysis and Signal Modeling. 3 credits. Prerequisites: 646 or permission of instructor. Methods and theory of spectral analysis and signal modeling are investigated in detail. Applications of theory include speech processing, optimal filtering, biomedical systems, digital communications.

EN-91-14

Department of Electrical Engineering

Add 4400:687 Power Electronics II. 3 credits. Prerequisites: 483/583 or equivalent. Effects of the nonidealities of the power circuit components, magnetics, base and gate drives, thyristor commutation circuits, heat transfer and thermal issues. Analysis and design of advanced power circuits.

EN-91-15

Department of Civil Engineering

Title 4300:683 Plasticity and Viscoelasticity. 3 credits. TO Plasticity. 3 credits. Prerequisites: 682, 4600:622 or equivalent. Mathematical formulation of constitutive equations with focus on their use in structural analysis. Internal variables. Isotropic, kinematic hardening. Nonisothermal plasticity. Finite deformations. Anisotropy.

EN-91-16

Department of Civil Engineering

Title 4300:703 Application in Plasticity and Viscoelasticity. 3 credits. Viscoelasticity and Viscoplasticity. 3 credits. Prerequisite: 683. Formulation of constitutive relations for time dependent materials. Classical linear viscoelasticity. Internal variable representation of nonlinear, hereditary behavior. Creep and rate dependent plasticity. Continuum thermodynamics. Anisotropy.

EN-91-17

Department of Electrical Engineering

Add 4400:243 Signal Analysis. 3 credits. Prerequisite: 231, corequisite: 232; 3450:235. Basis concepts of Convolution impulse and step responses, Laplace transforms, Fourier series, Fourier transforms, Bode diagrams, difference and differential equations.



I-91-18

## Department of Electrical Engineering

Add 4400:340 Electric Circuits Laboratory. 1 credit. Prerequisite: 4400:231. To develop practical skills in electric circuits. Experiments will involve analysis and measurement of circuits which will illustrate circuit theory concepts.

I-91-20

## Department of Electrical Engineering

Title 4400:485/585 Electric Drives. 3 credits. TO  
Prerequisite: Electric Motor Drives. 3 credits.  
Prerequisite: 4400:381.

I-91-21

## Department of Electrical Engineering

Add 4400:663 VLSI Circuits and Systems. 3 credits. Prerequisite: graduate status. An introductory course designed to provide a broad understanding of very-large-scale-integrated (VLSI) systems, circuits and devices. Topics include design, simulation, layout, fabrication and test procedures.

I-91-22

## Department of Electrical Engineering

Add 4400:484/584 Power Electronics Laboratory & Design Project. 2 credits. Prerequisites: 4400:483/583 or equivalent. Experiments on different types of power electronic converters: ac/dc, dc/dc, dc/ac and ac/ac. Design project to include design, simulation, building and testing of a power electronic circuit.

I-91-24

## Department of Electrical Engineering

Prerequisite: 4400:686 Dynamics of Electric Machines. 3 credits. TO  
Prerequisite: graduate status in Electrical Engineering.

I-91-25

## Department of Electrical Engineering

Credits 4400:688 Control of Electric Machines. 4 credits. TO  
Prerequisite: Control of Electric Machines. 3 credits.  
Prerequisite: graduate status in Electrical Engineering.

EN-91-30

Department of Electrical Engineering

Title            4400:449/549      Engineering of Data Communication Systems. 3 credits. TO  
 Prerequisite:   Digital Communication. 3 credits.  
 site  
 Description      Prerequisite: 4400:445.  
 Introduction to digital communication theory and systems;  
 coding of analog and digital information; digital modulation  
 techniques. Introduction to information theory.

EN-91-31

Department of Electrical Engineering

Delete from program and University offerings:

Drop            4400:467/567      Solid-State Devices. 2 credits.

EN-91-32

Department of Electrical Engineering

Add            4400:643            Information Theory and Coding. 3 credits. Prerequisite:  
 4400:641. Sources, channels, entropy, mutual information;  
 source coding theorem and channel coding theorem; techniques  
 for error control coding, including block, cyclic, and  
 convolutional codes.

EN-91-33

Department of Electrical Engineering

Description      4400:648            Detection and Estimation Theory. 3 credits.  
 Prerequisite: 4400:641 TO Signal detection, estimation of  
 signal parameters in noise; Bayes, minimax, Neyman-Pearson  
 criteria; nonparametric and robust procedures; Wiener and  
 Kalman filtering.

EN-91-34

Department of Electrical Engineering

Add            4400:664            Integrated Circuit Devices. 3 credits. Prerequisites:  
 graduate status, 4400:353,360 (or equivalent). Develops  
 physical and analytical descriptions of solid-state  
 electronic devices leading to equations and models of  
 (Schottky and PN) diodes and (field-effect and bipolar)  
 transistors.



4-91-35

## Department of Electrical Engineering

Add            4400:680            Dynamics and Control of Power Electronic Circuits. 3 credits. Prerequisites: 4400:483/583 or equivalent. Averaged and sampled-data models for rectifiers and dc/dc converters. Small- and large-signal models about the cyclic steady-state. Feedback controls using classical and modern approaches.

4-91-36

## Department of Electrical Engineering

Add            4400:689            Power Semiconductor Devices. 3 credits. Prerequisite: graduate status in Electrical Engineering. Structure and physics of power semiconductor devices: diodes, Bipolar junction transistors, MOSFETs, Thyristors, Power MOS-Bipolar devices (IGT, MCT). Emphasis on the issues that characterize these devices from the low power semiconductor devices.

4-91-37

## Department of Electrical Engineering

Add            4400:749            Functional Analytic Methods in System Theory. 3 credits. Prerequisite: permission of instructor. A course providing necessary background in advanced mathematical techniques, primarily for doctoral students in communication or control.

4-91-39

## Department of Chemical Engineering

Add            4200:632            Nonlinear Dynamics and Chaos. 3 credits. Prerequisite: 3450:235. Description and analysis of the complex behavior exhibited by nonlinear equations. Emphasis is on the numerical methods to quantify chaos.

4-91-40

## Department of Chemical Engineering

Title            4200:750            Pollution Control Engineering. 3 credits. TO  
 Descrip-            Advanced Pollution Control. 3 credit.  
 tion            Prerequisite: 4200:463. Analysis of current environmental research in analytical instrumentation, air and water pollution control, hazardous waste treatment, and nuclear waste disposal.



EN-91-41

## Department of Mechanical Engineering

Add 4600:693 Measurements Methods and Experimental error in Thermofluid Sciences. 3 credits. Prerequisites: viscous flow, conduction heat transfer, convection heat transfer. The course will incorporate elements of experimental error analysis, optics and optical ray tracing, principles of testing, methods and devices for fluid flow quantization and temperature measurements. Laboratory work with hands-on experience.

EN-91-46

## Department of Electrical Engineering

Add 4400:650 Electromagnetic Theory I. 3 credits. Prerequisite: permission of instructor. Electrostatics: uniqueness theorem, boundary-value problems, constructions of Green's functions. Magnetostatics. Electrodynamics: energy and momentum, EM potentials, Stratton-Chu formulation, radiation, dyadic Green's functions.

EN-91-47

## Department of Electrical Engineering

Title 4400:651 Electromagnetic Fields. 3 credits. TO  
 Prerequisite- Electromagnetic Theory II. 3 credits.  
 site Prerequisites: 4400:650 or permission of the course  
 Description instructor. Scattering. TEM waves. Guided wave theory:  
 tion transmission lines, closed-boundary guides and cavities, modal orthogonality and completeness, Green's functions, excitation and coupling, open-boundary waveguides.

EN-91-49

## Department of Electrical Engineering

Prerequisite- 4400:674 Control System Theory. 3 credits. TO  
 site Prerequisites: 4400:371 or instructor permission.  
 Description Advanced modern control theory for linear systems.  
 tion Controllability, observability, minimal realizations of multivariable systems, stability, state variable feedback, estimation, and an introduction to optimal control.

EN-91-50

## Department of Electrical Engineering

Drop 4400:642 Statistical Communications. 3 credits.



I-91-51

## Department of Electrical Engineering

Description	4400:772	<u>Model Reduction Techniques for Control Systems.</u> 3 credits. <u>Prerequisites:</u> 4400:674 or instructor permission. <u>TO</u> Classical, modern, and optimal techniques for computing reduced order models of linear, nonlinear, and infinite dimensional systems. Minimal realizations of multivariable systems are also considered.
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I-91-52

## Department of Electrical Engineering

Add	4400:775	<u>Robust Control.</u> 3 credits. Prerequisite: 4400:674. Input-output and state-space characterizations of robust control systems, and design techniques based on the algebraic Riccati equation. Decentralized and reliable control design methodologies.
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I-91-53

## Department of Electrical Engineering

Number	4400:776	<u>Optimal Control I.</u> 3 credits. <u>TO</u>
	4400:677	<u>Optimal Control I.</u> 3 credits.

I-91-54

## Department of Electrical Engineering

Prerequisite	4400:777	<u>Optimal Control II.</u> 3 credits. <u>TO</u> Prerequisite: 4400:677. Advanced state-feedback optimal control. Output-feedback issues, including loop transfer recovery, optimal observer design, reduced-order controllers, frequency weighting, and decentralized control.
Description		

## COLLEGE OF FINE AND APPLIED ART

A-91-1

## School of Social Work

Add	7750:475/575	<u>Substance Abuse and Social Work Practice.</u> 3 credits. Prerequisite: 276 or permission of instructor. provides students with the essential knowledge and skill for successful social work practice with people involved in substance abuse.
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FAA-91-10

## School of Music

Revise the Bachelor of Music degree in Music History and Literature as follows:

Change the description in the General Bulletin under Electives (page 93) TO

Special study elections in music 8 credits

7500:497	Independent Study in Music. 8 credits
*7500:601	Choral Literature. 2 credits
*7500:621	Music History Survey: Medieval/Renaissance. 2 credits
*7500:622	Music History Survey: Baroque. 2 credits
*7500:623	Music History Survey: Classic/Romantic. 2 credits
*7500:624	Music History Survey: 20th Century. 2 credits

\*These courses are available to qualified undergraduates with special permission from the Director of the School of Music.

Cognate areas such as history, language or other arts 8 credits

Note: A reading proficiency equal to the second year of undergraduate study in an approved foreign language (preferably German, French, or Italian) is required for completion of the degree program.

Electives 7 credits

FAA-91-12

## School of Music

Add 7510:421/521 Guitar Chamber Music. 1 credit. Prerequisite: open to all upper class instrumentalists and vocalists. Guitarists must have taken Guitar Ensemble (7510:116). Study, coaching, and performance in major works for guitar with other instrument or voice. Major conducted ensemble for guitar majors.

FAA-91-15

## School of Music

Drop 7510:616 Guitar Ensemble. 1 credit.

FAA-91-24

## School of Music

Add 7500:640 Advanced Accompanying I. 1 credit. Prerequisite: graduate standing in keyboard performance and/or accompanying or the permission of the instructor. An in-depth study of principles of accompanying, sightreading, standard repertoire and transposition.



A-91-25  
School of Music

Add 7500:641 Advanced Accompanying II. 1 credit. Prerequisite: graduate standing in keyboard performance and/or accompanying or the permission of the instructor. An in-depth study of principles of accompanying, sightreading, standard repertoire and transposition.

A-91-26  
School of Music

Add 7500:642 Advanced Accompanying III. 1 credit. Prerequisite: graduate standing in keyboard performance and/or accompanying or the permission of the instructor. An in-depth study of principles of accompanying, sightreading, standard repertoire and transposition.

A-91-27  
School of Music

Add 7500:643 Advanced Accompanying IV. 1 credit. Prerequisite: graduate standing in keyboard performance and/or accompanying or the permission of the instructor. An in-depth study of principles of accompanying, sightreading, standard repertoire and transposition.

A-91-29  
School of Theatre Arts

Revise the Arts Management Option : Theatre Arts as follows:

Add	7800:605	<u>Colloquium on the Arts.</u> 2 credits. A brief exploration of the major visual and performing art forms and organizations examined in relationship to the business management of arts. Team-taught.
	7800:682	<u>Fundraising and Grantsmanship in the Arts.</u> 3 credits. Techniques and execution of a development campaign for individuals, corporations, foundations, federal and state grants, and endowment, including research and proposal writing.
	6200:570	Government and Institutional Accounting.(see prerequisite) 3 credits.
	6500:600	Management and Production Concepts. 3 credits.
	6600:600	Marketing Concepts. 3 credits.



Drop	6200:601	Financial Accounting. 3 credits.
	6400:602	Managerial Finance. 3 credits.
	6500:652	Organizational Behavior. 3 credits.
	6600:620	Strategic Marketing Management. 3 credits.
	6600:640	Marketing Information Systems and Research. 3 credits.
	6600:655	Marketing Communications. 3 credits.
	3980:610	Urban Politics. 3 credits.
	3980:611	Urban Administration. 3 credits.
	3980:640	Fiscal Analysis. 3 credits.
	3980:680/681	Selected Topics. 1-3 credits each.
	3980:695	Internship. 1-3 credits.
Title Credits Description	7800:655	<u>Audiences and the Arts: Research and Analysis.</u> 2 credits. <u>TO Audience Development.</u> 3 credits. Developing audiences for the arts through arts marketing techniques, including season and single ticket campaigns, promotional strategies, media/public relations, market research and telemarketing.
	7800:666	<u>Introduction to Arts Management.</u> 2 credits. <u>TO Principles of Arts Administration.</u> 3 credits. Principles and practices in non-profit arts management, including organizational structure, function of boards, personnel volunteer management, and public policy for the arts.
	7800:692	<u>Legal Regulations and the Arts.</u> 2 credits. <u>TO Legal Aspects of Arts Administration.</u> 3 credits. Legal responsibilities and liabilities of an arts organization, contracts, copyright laws, insurance, taxation, artists' rights, personnel law, and labor law.
	7800:698	<u>Arts Management Internship.</u> 1-3 credits. <u>TO Internship.</u> 3-6 credits. Prerequisite: permission. Faculty supervised work experience in which the student participate in an arts management, performance or technical situation with a selected cultural organization.
Title Credits	7800:699	<u>Thesis Research/Production Document.</u> 4-6 credits. <u>TO Research or Creative Thesis.</u> 3-6 credits.
Title Description	7800:691	<u>Seminar: The Role of the Arts Administrator.</u> 3 credits. <u>TO Arts Administration Practices and Policies.</u> 3 credits. Financial management of the arts, facilities management, presenting performances, touring, and unique management problems in non-profit theatre companies, dance companies, orchestras and museums.



## Program Credit Hour Change:

Total Program Credit Hours Required:	<u>TO</u> 42
Total Required Credit Hours:	<u>TO</u> 38-41
Total Elective Credit Hours:	<u>TO</u> 1-4

A-91-35

## School of Art

Add a new program: Bachelor of Arts - Studio Emphasis in Interior Design

General Bulletin Description:

Bachelor of Arts - Studio Emphasis in Interior Design prepares the student to enter the field of Interior Design by developing competencies in identifying, researching and creatively solving problems in the immediate physical environment.

## INTERIOR DESIGN OPTION STUDIO ART COURSES:

7100:131	Introduction to Drawing	3
7100:132	Instrument Drawing	3
7100:144	Two-Dimensional Design	3
7100:244	Color Concepts	3
		<u>12</u>

## INTERIOR DESIGN OPTION STUDIO ART COURSES:

7100:246	Introduction to Watercolor Painting	3
7100:275	Introduction to Photography	3
7100:283	Drawing Techniques	3
7100:293	Introduction to Fiber Arts	3
		<u>12</u>

## INTERIOR DESIGN OPTION ART HISTORY COURSES:

7100:100	Survey of Art History I	4
7100:101	Survey of Art History II	4
7400:418	History of Furnishings and Interiors I	3
7400:419	History of Furnishings and Interiors II	3
7100:xxx	Art History Elective	3
		<u>17</u>

## INTERIOR DESIGN OPTION PROFESSIONAL COURSES:

(Students are required to take the following courses which may be used to fulfill the language alternative requirements.)

2920:250	Architectural Drafting	3
7400:121	Textiles	3
7400:158	Introduction to Interior Design and Furnishings	3
7400:302	Consumers of Services	3
7400:432	Interior Textiles and Product Analysis	3
		<u>15</u>

#### INTERIOR DESIGN OPTION ADVANCED PROFESSIONAL COURSES:

7400:433	Residential Design	3
7400:434	Commercial Design	3
7400:435	Principles and Practices of Design	3
7100:491	Architectural Presentations I	3
7100:492	Architectural Presentations II	3
7100:496	Art Internship/Professional Experience	3
		<u>18</u>

#### INTERIOR DESIGN OPTION RECOMMENDED ELECTIVE COURSES: (Students must select 9 hours from the following courses.)

##### Interior Design Courses:

7400:159	Family Housing	3
7400:485	Seminar: Lighting for Man Made Environments	3
7400:485	Seminar: Special Problems in Interior Design	3
7400:485	Seminar: CAD for Interior Design	3
7400:485	Seminar: Office Design	3

##### Art Studio Courses:

7100:231	Drawing II	3
7100:393	Weaving II or other advanced weaving course	3
2240:130	Marker Rendering	3
7100:214	Introduction to Screen Printing	3
7100:497	Independent Studies	3

##### Business Courses:

6200:211	Accounting I	4
6600:300	Marketing Principles	3
6600:340	Retail Management	3
6600:350	Advertising and Marketing Communication	3
		<u>9</u>



INTERIOR DESIGN OPTION OPEN ELECTIVES 6

SUMMARY OF CREDITS

Interior Design Option Art Studio Core Courses:	12
Interior Design Option Studio Art Courses:	12
Interior Design Option Art History Courses:	17
Interior Design Option Professional Courses:	15
Interior Design Option Advanced Professional Courses:	18
Interior Design Option Recommended Elective Courses:	9
Interior Design Option Open Electives	6
General Studies Courses:	<u>39</u>
TOTAL HOURS:	128

A-91-37  
School of Art

Revise the Minor in Painting as follows:

Add	7100:249	<u>Figure Painting.</u> 3 credits.
	7100:247	<u>Introduction to Oil Painting.</u> 3 credits.
	7100:248	<u>Introduction to Airbrush Painting.</u> 3 credits.

General Bulletin description:

7100:245	Introduction to Polymer Acrylic Painting	3 credits
7100:246	Introduction to Water Color Painting	3 credits
7100:247	Introduction to Oil Painting	3 credits
7100:248	Introduction to Airbrush Painting	3 credits
7100:249	Figure Painting	3 credits
7100:348	Painting II*	3 credits
7100:449	Advanced Painting**	3 credits

\*Student must take Advanced Painting in a medium (oil, acrylic or water color) taken previously at the introductory level. May be repeated for a total of nine credits, but limited to a maximum of three credits in any one of the three media.

\*\*Student Must take Advanced Painting in a medium taken previously in Painting II. May be repeated a total of nine credits.

NOTE: TWO of the introductory courses must be taken.

FAA-91-39

## School of Art

Revise the program in Metalsmithing as follows:

Add 7100:368 Color in Metals II. 3 credits.

## Program Summary:

## Metalsmithing

2920:247	Technology of Machines Tools	3 credits
7100:222	Introduction to Sculpture	3 credits
7100:266	Introduction to Metalsmithing	3 credits
7100:268	Color in Metals	3 credits
7100:287	Drawing Techniques	3 credits
7100:366	Metalsmithing II	3 credits

12 credits from the following:

12 credits

7100:466	Advanced Metalsmithing (may be repeated)
7100:368	Color in Metals II (may be repeated)

FAA-91-41

## School of Social Work

Prerequisite- 7750:410/510 site Minority Issues in Social Work. 3 credits. TO  
Prerequisite: 276; must be taken prior to or concurrently  
with 401 and one of the other practice courses  
(402,403,404).

FAA-91-42

## School of Social Work

Prerequisite- 7750:403/503 site Social Work Practice III. 3 credits. TO  
Prerequisite: 401 or permission of instructor.

FAA-91-43

## School of Social Work

Title 7750:427/527 Human Behavior and the Social Environment for Social Worker  
I. 3 credits. TO  
Human Behavior and the Social Environment I. 3 credits.

FAA-91-44

## School of Social Work

Title 7750:430/530 Human Behavior and the Social Environment for Social Worker  
II. 3 credits. TO  
Human Behavior and The Social Environment II. 3 credits.



A-91-45 and FAA-91-46

## Department of Theatre Arts

Revise the Bachelor of Arts: Theatre Arts major; Bachelor of Arts in Theatre Arts Tag degree; and three tag options, Acting, Design/Technology, and Musical Theatre. The core changes are uniform throughout; the program summaries appear separately. (Both curriculum change proposals are printed here together because FAA-91-45 was part I of the entire proposal and FAA-91-46 was part II.)

Add the following new courses:

Add	7800:107	<u>Introduction to Stage Costume Techniques.</u> 3 credits. Introduction to basic costume construction techniques, organization and maintenance of wardrobe for theatrical performance. Lab required.
	7800:215	<u>Production and Stage Management.</u> 3 credits. An in-depth study of production and stage management practices including scheduling, running rehearsals, creating a prompt book, calling shows and inter-area communications.
	7800:230	<u>Development of Theatre: History of the Theatre.</u> 3 credits. Prerequisite: 7800:100 or permission of instructor. Theatre history from the Greeks to the present with the emphasis on the physical theatre, stage conventions and theatre architecture of each period.
	7800:301	<u>Introduction to Theatre and Film.</u> 3 credits. A survey of creative development in theatre and film. It will cover American and international developments through lecture and viewing of films. For non-majors.
	7800:307	<u>Advanced Costume Techniques.</u> 3 credits. Prerequisite: 7800:107. Specialized construction techniques for costumes, armor, masks, jewelry millinery and footwear.
	7800:330	<u>Development of Theatre: Dramatic Literature I.</u> 3 credits. Prerequisites: 7800:230 or permission of instructor. An in-depth exploration of stage plays from the Classical Greek period to 1800, with an emphasis on the relationship of plays to various cultures.
	7800:333	<u>Summer Theatre.</u> 3 credits. Prerequisites: Permission of instructor/audition. Practical laboratory experiences in one or more disciplines during the summer season doing production and/or management work. Permission only. (Repeatable to 12 credits.)
	7800:337	<u>Stage Costume History and Design I.</u> 3 credits. Prerequisites: 7800:107; 7100:144. An introduction to Stage Costume Design through the 16th Century. Exploration design skills, historical styles and dramatic literature through costume design projects.



- 7800:338      Stage Costume History and Design II. 3 credits.  
Prerequisite: 7800:337. A continuation of 7800:337, from the 17th Century to the present.
- 7800:430      Development of Theatre: Dramatic Literature II. 3 credit  
Prerequisites: 7800:330 or permission of instructor. An in-depth exploration of stage plays from the 19th Century modern times, with an emphasis on the relationships of pla to various cultures.

Delete the following from the programs and University offerings:

- |          |                                         |                                                            |
|----------|-----------------------------------------|------------------------------------------------------------|
| Drop     | 7800:102                                | Introduction to Technical Theatre. 3 credits.              |
|          | 7800:328                                | Period Movement and Dance. 2 credits.                      |
|          | 7800:334                                | Stage Costume Construction. 3 credits.                     |
|          | 7800:335                                | Introduction to Stage Costume History and Design. 3 credit |
|          | 7800:336                                | History/Construction of Period Furnishings for the Stage.  |
|          | 7800:351                                | Advanced Voice for the Stage II. 3 credits.                |
|          | 7800:362                                | Advanced Stagecraft. 3 credits.                            |
|          | 7800:367                                | History of Theatre I: Greek-Elizabethan. 4 credits.        |
|          | 7800:368                                | History of Theatre II. Restoration-Present. 4 credits.     |
|          | 7800:435                                | Stage Costume Design. 3 credit.                            |
|          | 7800:437                                | Styles of Stage Costume Design. 3 credits.                 |
| 7800:469 | Problems in Lighting Design. 3 credits. |                                                            |

Make the following course changes:

- |                  |                   |                                                                                                                                                                                                  |
|------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number           | 7800:445          | <u>Movement for Actors I.</u> 3 credits. <u>T0</u>                                                                                                                                               |
|                  | Prerequi-<br>site | 7800:145 <u>Movement for Actors I.</u> 3 credits.<br>Prerequisite: none.                                                                                                                         |
| Descrip-<br>tion |                   | Specialized physical training for the actor.                                                                                                                                                     |
|                  |                   |                                                                                                                                                                                                  |
|                  | 7800:446          | <u>Movement for Actors II.</u> 3 credits. <u>T0</u>                                                                                                                                              |
|                  | 7800:245          | <u>Movement for Actors II.</u> 3 credits.<br>Prerequisite: 7800:145. Specialized training, integrating the actor's physical and vocal instrument.                                                |
|                  | 7800:465          | <u>Stage Lighting Design.</u> 3 credits. <u>T0</u>                                                                                                                                               |
|                  | 7800:355          | <u>Stage Lighting Design.</u> 3 credits.<br>Prerequisite: 7800:225 or permission of instructor. The art and technique of stage lighting design: light plotting color theory and optical effects. |
|                  | 7800:475          | <u>Acting for Musical Theatre.</u> 3 credits. <u>T0</u>                                                                                                                                          |
|                  | 7800:475/575      | <u>Acting for Musical Theatre.</u> 3 credits.<br>Prerequisite: permission of instructor. A scene study course in analyzing and performing roles in American musicals. Accompanist provided.      |



Prerequisite	7810:110-410	<u>Performance Laboratory.</u> 1 credit each. <u>T0</u> Prerequisite: permission of instructor.
Description		Required of all theatre majors. (May be repeated for a total of 12 credits.) Provides student with practical performance experience in theatre productions.
	7810:100-400	<u>Production Lab Design/Technical.</u> 1 credit each. Prerequisite: permission of instructor. Required of all theatre majors. (May be repeated for a total of 12 credits.) Practical Laboratory experience in technical aspects of the theatre.
	7800:450/550	<u>Performance Projects.</u> 3 credits. <u>T0</u> Prerequisite: permission of instructor. Preparation and presentation of programs and projects for community and campus organization plus other projects as announced. (May be repeated to 6 credits.)
Number	7800:376	<u>Theatre Organization &amp; Management.</u> 2 credits. <u>T0</u>
Credits	7800:205	<u>Theatre Organization &amp; Management.</u> 3 credits.
Prerequisite		Prerequisite: none.
Description		Study of successful organization and management of professional and nonprofessional theatre operations.
Number	7800:464	<u>Stage Lighting.</u> 3 credits. <u>T0</u>
Description	7800:225	<u>Stage Lighting.</u> 3 credits. History, theories, practices and the craft of lighting for the stage.
Title	7800:350	<u>Advanced Voice for the Stage I.</u> 3 credits. <u>T0</u> <u>Advanced Voice for the Stage.</u> 3 credits.
Description	7800:374	<u>Acting III.</u> 3 credits. Prerequisite: 7800:373. <u>T0</u> Further in-depth actor training with emphasis on the language and interpretation of classic plays, including Shakespeare.
	7800:421	<u>Musical Theatre Production.</u> 3 credits. <u>T0</u> Designed to make the theatre student aware of the total creative process involved in mounting a stage musical.
	7800:100	<u>Experiencing Theatre.</u> 3 credits. <u>T0</u> Experience the theatre as a live dynamic art form through an exposure to and participation in university productions.
Title	7800:106	<u>Intro to Stage Design.</u> 3 credits. <u>T0</u>
Description		<u>Intro to Scenic Design.</u> 3 credits. Introduction to the theory of scene design and imagery. The course may include the application of these principles to other media.



## PROGRAM SUMMARIES:

Bachelor of Arts: Theatre Arts MajorGeneral Studies 39 creditsForeign Language 14 credits

Complete the second year of a foreign language.

Language selected \_\_\_\_\_.

Theatre 63 creditsRequired Theatre Art Courses 40 credits

7800:100	(3)	Experiencing Theatre
7800:106	(3)	Introduction to Scenic Design
7800:107	(3)	Introduction to Stage Costume Techniques
7800:145	(3)	Movement for Actors I
7800:151	(3)	Voice for the Stage
7800:172	(3)	Acting I
7800:230	(3)	Development of Theatre: History of Theatre
7800:262	(3)	Stage Makeup
7800:365	(3)	Basic Stagecraft I
7800:371	(3)	Directing I
7800:330	(3)	Development of Theatre: Dramatic Literature I
7800:430	(3)	Development of Theatre: Dramatic Literature II
7810:100-	(4)	Production Design/Tech Lab
400		

Theatre Electives 23 credits  
(with approval of advisor)General Electives 12 creditsMinimum Semester Hours Required: 128 creditsBachelor of Arts in Theatre ArtsGeneral Electives 39 creditsTag Area of Study 14 creditsTheatre 63 creditsRequired Theatre Arts Core 40 credits

7800:100	(3)	Experiencing Theatre
7800:106	(3)	Introduction to Production and Media Design
7800:107	(3)	Introduction to Stage Costume Techniques
7800:145	(3)	Movement for Actors I
7800:151	(3)	Voice for the Stage



7800:172	(3)	Acting I
7800:230	(3)	Development of Theatre: History of Theatre
7800:262	(3)	Stage Makeup
7800:265	(3)	Basic Stagecraft I
7800:271	(3)	Directing I
7800:330	(3)	Development of Theatre: Dramatic Literature I
7800:430	(3)	Development of Theatre: Dramatic Literature II
7810:100-	(4)	Production Design/Tech. Lab
400		

Theatre Electives 23 credits  
(with approval of advisor)

General Electives 12 credits

Minimum Semester Hours Required 128 credits

Bachelor of Arts in Theatre Arts  
Option in Acting

General Studies 39 credits

Theatre 73 credits

Required Theatre Arts Core 40 credits

7800:100	(3)	Experiencing Theatre
7800:106	(3)	Introduction to Scenic Design
7800:107	(3)	Introduction to Stage Costume Techniques
7800:145	(3)	Movement for Actors I
7800:151	(3)	Voice for Stage
7800:172	(3)	Acting I
7800:230	(3)	Development of Theatre
7800:262	(3)	Stage Makeup
7800:265	(3)	Basic Stagecraft I
7800:271	(3)	Directing I
7800:330	(3)	Development of Theatre: Dramatic Literature I
7800:430	(3)	Development of Theatre: Dramatic Literature II
7810:100	(4)	Production Design/Techn Lab
400		

Required Performance/Movement/Voice Classes 19 credits

7800:245	(3)	Movement for Actors II
7800:273	(3)	Acting II
7800:350	(3)	Advanced Voice for the Stage
7800:374	(3)	Acting III
7800:474	(3)	Acting IV
7800:110-	(4)	Performance Labs
410		



Required Music Courses

8 credits

7520:024	(2)	Voice
7520:024	(2)	Voice
7520:024	(2)	Voice
7520:024	(2)	Voice

Required Dance Courses

6 credits

7900:119	(2)	Introduction to Contemporary Dance I
7900:120*	(2)	Introduction to Contemporary Dance II (or)
7900:124	(2)	Introduction to Ballet I
7900:323	(2)	Jazz Dance Technique I (for non-majors)

General Electives

16 credits

(with approval of advisor)

Minimum Semester Hours Required:

128 credits

\*Audition for Placement

Bachelor of Arts in Theatre Arts  
Option in Design/Technology

General Studies

39 credits

Theatres

75-77 credits

Required Theatre Arts Core

40 credits

7800:100	(3)	Experiencing Theatre
7800:106	(3)	Introduction to Scenic Design
7800:107	(3)	Introduction to Stage Costume Techniques
7800:145	(3)	Movement for Actors I
7800:151	(3)	Voice for Stage
7800:172	(3)	Acting I
7800:230	(3)	Development of Theatre
7800:262	(3)	Stage Makeup
7800:265	(3)	Basic Stagecraft I
7800:271	(3)	Directing I
7800:330	(3)	Development of Theatre: Dramatic Literature I
7800:430	(3)	Development of Theatre: Dramatic Literature II
7810:100	(4)	Production Design/Techn Lab
400		

I. Required Basic Preparation Courses

12 credits

7800:225	(3)	Stage Lighting
7800:263	(3)	Scene Painting
7800:337	(3)	Stage Costume History & Design I
7800:365	(3)	Stage Design

Required Intermediate Studio Courses 12 credits

7800:215	(3)	Production & Stage Management
7800:338	(3)	Stage Costume History & Design II
7800:355	(3)	Stage Lighting Design
7800:436	(3)	Styles of Scenic Design

I. Required Advanced Studio Courses 7-9 credits

7800:266	(3)	Basic Stagecraft II
7800:307	(3)	Advanced Costume Techniques
7800:470	(1-3)	Practicums in Production Design/Tech.

Required Productions 1-3 Lab Courses (7810:100-400) 4 credits

General Electives (with approval of advisor) 12-14 credits

Electives strongly recommended are:

(7100:121; 7100:131; 7100:132; 7100:144; 7100:185; 7100:190; 7100:191)

Minimum Semester Hours Required 128 credits

Bachelor of Arts in Theatre Arts  
Option in Musical Theatre

General Studies 39 credits

Theatre 79 credits

Required Theatre Arts Core 40 credits

7800:100	(3)	Experiencing Theatre
7800:106	(3)	Introduction to Scenic Design
7800:107	(3)	Introduction to Stage Costume Techniques
7800:145	(3)	Movement for Actors I
7800:151	(3)	Voice for Stage
7800:172	(3)	Acting I
7800:230	(3)	Development of Theatre
7800:262	(3)	Stage Makeup
7800:265	(3)	Basic Stagecraft I
7800:271	(3)	Directing I
7800:330	(3)	Development of Theatre: Dramatic Literature I
7800:430	(3)	Development of Theatre: Dramatic Literature II
7810:100	(4)	Production Design/Techn Lab
400		



Required Performance Classes

19 credits

7800:245	(3)	Movement for Actors II
7800:273	(3)	Acting II
7800:374	(3)	Acting III
7800:421	(3)	Musical Theatre Productions
7800:475	(3)	Acting for Musical Theatre
7810:110-410	(4)	Performance Lab

Required Dance Courses

8 credits

7900:119*	(2)	Introduction to Contemporary Dance I, II, or III
7900:120*	(2)	Introduction to Contemporary Dance II (or)
7900:124	(2)	Introduction to Ballet I
7900:323	(2)	Jazz Dance Technique I (for non-majors)
7900:342	(2)	Tap Technique I

Required Music Courses

12 credits

7500:101	(2)	Introduction to Music Theory
7500:024	(10)	Class Voice (or)
7500:124-324*	(10)	Applied Voice

General Electives (with approval of advisor)

12 credits

Minimum Semester Hours Required

128 credits

\*Audition for Placement

Revise the Theatre Arts Minor as follows:

Add           7800:107           Introduction to Stage Costume Technique. 3 credit.

Add on addition hour of Production or Performance Lab to make the total three.

Delete from the program and University offering:

Drop           7800:102           Introduction to Technical Theatre. 3 credits.

Revise the Drama/Theatre Certificate (7-12) as follows:

Add           7800:330           Development of Theatre: Dramatic Literature I. 3 credits.  
                  7800:430           Development of Theatre: Dramatic Literature II. 3 credits.

The hours of 7810: Production or Performance Lab will be increased to three.

Delete from program and University offering:

Drop	7800:367	Development of Dramatic Art I
	7800:368	Development of Dramatic Art II

A-91-47  
School of Music

Revise the Music Education degree as follows:

Add	7500:275	<u>Double Reed/Percussion Methods.</u> 1 credits. A comprehensive approach to the performance of oboe, bassoon, and the percussion family of instruments for instrumental music education majors in preparation for teaching music.
	7500:276	<u>Brass Methods.</u> 1 credit. A comprehensive approach to the performance and pedagogy of brass instruments for instrumental music education majors in preparation for teaching music.
	7500:277	<u>Woodwind Methods.</u> 1 credit. A comprehensive approach to the performance and pedagogy of the woodwind family of instruments for the instrumental music education major in preparation music teaching.
	7500:297	<u>Introduction to Music Education.</u> 2 credits. Prerequisites: 7500:152, 154, 161. Overview of the music teaching profession and its processes. Screening of degree candidates is built into the course along with clinical field experience.
	7500:341	<u>Curricular Innovations in General Music.</u> 3 credits. Prerequisites: 7500:155, 161, 252, 262, 297, 340. Intensive study of principles, techniques, and materials of Orff, Kodaly, and other current general music methods appropriate for grades K-12. Clinical and field experience.
	7500:343	<u>Secondary Instrumental Music.</u> 2 credits. Prerequisites: 7500:155, 161, 252, 262, 275, 276, 277, 297, 336, 342. Introduction to procedures for teaching instrumental music at the secondary level as well as principles of secondary instrumental curriculum design. Clinical and field experience.



## Course changes as follows:

Credits	7500:205	<u>Marching Band Organization and Technique.</u> 2 credits. <u>TO</u>
Prerequisite		<u>Marching Band Organization and Technique.</u> 1 or 2 credits.
Description		Prerequisites: 2 semesters 7510:104 or 1 semester 7510:104 and equivalent experience as determined by instructor. A discussion of the marching band. Students learn to write complete halftime shows while administering the marching band program. Required for instrumental music education majors.
	7500:340	<u>Teaching General Music.</u> 3 credits. <u>TO</u>
		<u>Teaching General Music.</u> 2 credits. Prerequisites: 7500:155, 161, 252, 262, 297. Introduction to methods, materials, and skills for teaching non-performance music classes, with emphasis on the elementary grades. Clinical and field experiences.
Credits	7500:307	<u>Techniques of Stage Band Performance and Direction.</u> 2 credits. <u>TO</u>
Description		<u>Techniques of Stage Band Performance and Direction.</u> 1 or 2 credits. Prerequisite: permission of instructor. Basic experiences related to conducting, rehearsal techniques, improvisation, performance, repertoire, and other matters related to organization and direction of stage bands. Required for instrumental majors.
Title	7500:342	<u>Wind-Perussion Inst. Techniques.</u> 3 credits. <u>TO</u>
Credits		<u>Elementary Instrumental Music.</u> 2 credits.
Prerequisite		Prerequisites: 7500:155, 161, 252, 262, 275, 276, 277, 297
Description		This course prepares teachers for developing innovative elementary instrumental programs. Students will survey materials for creative teaching in instrumental music. Clinical and field experiences.

General Bulletin DescriptionProgram Description

The music education curriculum at The University of Akron strives to bring each of its students to an intellectual understanding of the pedagogical, historical, and theoretical aspects of musical performance while demanding the highest levels of technical and artistic development in the teaching and performing of music.

Music EducationGeneral Studies



<u>Core Curriculum in Musics</u>	30
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Performance courses:	24
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7500:157	Student Recital (eight semesters)	
7510:---	Music Organization (eight semesters)	
7520:---	Applied Music - primary instrument	

Professional Education (including student teaching & 7500:492 Senior Seminar)	25
----------------------------------------------------------------------------------	----

Additional Music Courses:

7500:254	String Instrument Technique	2
7500:297	Introduction to Music Education	2
7500:340	Teaching General Music	2
7500:342	Elementary Instrumental Music	2
7500:361	Conducting	2

Additional Music Courses by Major

**Instrumental (Band)**

7500:205	Marching Band Organization and Technique	1
7500:275	Double Reeds/Percussion Methods	1
7500:276	Brass Methods	1
7500:277	Woodwind Methods	1
7500:307	Techniques of Stage Band Performance and Direction	1
7500:343	Secondary Instrumental Music	2
7500:454	Orchestration	2
7500:455	Advanced Conducting: Instrumental	2

**Vocal and Keyboard**

7500:341	Curricular Innovations in General Music	3
7500:362	Choral Arranging	2
7500:456	Advanced Conducting: Choral	2
Approval Electives		4

**Instrumental (String)**

7500:254	String Instrument Techniques (second semester)	2
7500:276	Brass Methods	1
7500:277	Woodwind Methods	1
7500:454	Orchestration	2
7500:455	Advanced Conducting: Instrumental	2
Approved Electives		3



FAA-91-59

## Department of Dance

Revise the Bachelor of Arts in Dance as follows:

Add	7920:361	<u>Learning Theory for Dance.</u> 2 credits. Prerequisites: 7900:224; 7900:115; or permission of instructor. Theories of learning and their use in teaching dance.
	7920:362	<u>Instructional Strategies for Dance.</u> 2 credits. Prerequisite: 7920:361. Practical work and development of teaching skills in dance for public and private settings.
	7920:461	<u>Seminar and Field Experience in Dance Education.</u> 2 credits. Prerequisite: 7920:362. Supervised observation and teaching experience in dance education in the field. Concurrent enrollment in 7910:108 Choreographers Workshop.
	7920:462	<u>Professional Issues in Dance Education.</u> 2 credits. Prerequisite: 7920:461. An examination of current issues and goals in dance education. Concurrent enrollment in 7910:108 Choreographers Workshop.
	7900:130	<u>Introduction to Jazz Dance I.</u> 2 credits. Basic jazz dance technique and jazz dance origins.
	7900:230	<u>Introduction to Jazz Dance II.</u> 2 credits. Prerequisite: 7900:130. Continuation of Introduction to Jazz Dance I. Refinement of basic jazz technique and stylistic range of jazz dance.
	7920:351	<u>Jazz Dance Styles.</u> 2 credits. Prerequisite: 7900:130 or placement audition. Intermediate jazz dance technique and the jazz eras.
	7920:451	<u>Advanced Jazz Dance Styles.</u> 2 credits. Prerequisite: 7920:351 or placement audition. Advanced jazz dance technique and styles for the professional dancer.

Delete the following from program and University offerings::

Drop	7920:426	Techniques of Teaching Dance I. 2 credits.
	7920:427	Techniques of Teaching Dance II. 2 credits.
	7900:323	Jazz Dance Technique I. 2 credits.
	7900:377	Jazz Dance Technique II. 2 credits.

1-91-60

## Department of Dance

Revise the Dance Minor as follows:

Add	7920:361	<u>Learning Theory for Dance.</u> 2 credits. Prerequisites: 7900:224; 7900:115; or permission of instructor. Theories of learning and their use in teaching dance.
	7900:130	<u>Introduction to Jazz Dance I.</u> 2 credits. Basic jazz dance technique and jazz dance origins.

Delete from the program and University offerings:

Drop	7920:426	Techniques of Teaching Dance I. 2 credits.
	7900:323	Jazz Dance Technique I. 2 credits.

1-91-61

## School of Home Economics and Family Ecology

Revise the Coordinated Undergraduate Program in Dietetics as follows:

Program Title Change		
FROM:		Coordinated Undergraduate Program In Dietetics
TO:		Coordinated Program in Dietetics

Add the following existing course:

6500:480	Introduction to Health-Care Management. 3 credits.
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Delete from the program:

Drop	7400:420	Experimental Foods. 3 credits.
	6500:301	Management Principles and Concepts. 3 credits.

Delete from the program and University offering:

Drop	7400:380	Introduction to Community Nutrition. 1 credit.
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Program Credit Hour Change:

Total Program Credit Hours Required: 10 140-141



FAA-91-62

School of Home Economics and Family Ecology

Revise the Traditional Dietetics Program as follows:

Add the following existing courses to the program:

7400:480	Community Nutrition I. 3 credits.
7400:482	Community Nutrition II. 3 credits.
6500:480	Introduction to Health-Care Management. 3 credits.

Delete from Program:

Drop	7400:420	Experimental Foods. 3 credits
	6500:301	Management Principles and Concepts. 3 credits.

Delete from program and University offerings:

Drop	7400:380	Introduction to Community Nutrition. 1 credit.
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Program Credit Hour Change:

Total Program Credit Hours Required: T0 135-136

## WAYNE COLLEGE

WC-91-1

Wayne College

Revise Office Administration - Legal Secretary Option as follows:

Add one existing course:

2540:255	<u>Legal Office Procedures.</u> 3 credits.
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Drop	2540:254	<u>Legal Keyboarding.</u> 2 credits.
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Program Credit Hour Change:

Total Elective Credit Hours: T0 0WC-91-3

Wayne College

Revise Office Administration - Word Processing Option as follows:

Add	2440:125	<u>LOTUS 1-2-3.</u> 2 credits.
	2440:151	<u>PC-DOS Fundamentals.</u> 1 credits.

Drop	2540:280	<u>Word Processing Concepts.</u> 2 credits.
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## Program Credit Hour Change:

Total Required Credit Hours: T0 64Total Elective Credit Hours: T0 0-91-4

Wayne College

## Revise Word Processing Certificate as follows:

Add 2440:120 Computer & Software Fundamentals. 2 credits.Drop 2540:280 Word Processing Concepts. 2 credits.-91-5

Wayne College

## Revise Administrative Secretary Certificate as follows:

## Program Credit Hour Change:

Total Program Credit Hours Required: T0 35Total Required Credit Hours: T0 35Total Elective Credit Hours: T0 0-91-6

Wayne College

## Revise Business Management Technology - Sales Option as follows:

## Program Title Change:

FROM: Business Management Technology - Sales Option

TO: Business Management Technology - Sales and Services Option

Add 2420:206 Survey of Insurance Products and Services I. 3 credits.  
 Prerequisite: 2040:247; 2420:104; 2420:211. Exposure to the vocabulary, fundamental principles, and current practices of the insurance industry.

2420:207 Survey of Insurance Products and Services II. 3 credits.  
 Prerequisite: 2420:206. Focuses on application exercises based on current industry practices along with continued topical coverage of insurance products and services.



2420:234      Survey of Investment Products and Services. 3 credits.  
 Prerequisites: 2040:247; 2420:104; 2420:211. Introduces  
 the vocabulary of and products provided by financial service  
 institutions. Includes economic, legal, and marketing  
 aspects associated with such products and services.

Drop      2040:240      Human Relations. 3 credits.

2520:201      Principles of Wholesaling. 2 credits.

Program Credit Hour Change:

Total Program Credit Hours Required: T0 67

Total Required Credit Hours: T0 67-66

Total Elective Credit Hours: T0 0-1

WC-91-7

Wayne College

Revise Business Management Technology - Data Management Option as follows:

Add      2420:218      Automated Bookkeeping. 1 credit.

Program Credit Hour Change:

Total Program Credit Hours Required: T0 67

Total Required Credit Hours: T0 67

WC-91-8

Wayne College

Revise Data Management Certificate as follows:

Add      2420:218      Automated Bookkeeping. 1 credit.

Program Credit Hour Change:

Total Program Credit Hours Required: T0 34

Total Required Credit Hours: T0 134

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