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The University of Akron Faculty Senate Chronicle

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SUPPLEMENT TO THE UNIVERSITY OF AKRON CHRONICLE

DATED APRIL 27, 1989

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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.

The following curriculum corrections were reported to the Supplement to The University of Akron Chronicle, 1988-89, No. 6, dated March 31, 1989.

- Page 3....AS-89-10 should be "Department of Mathematical Sciences".
- Page 3....AS-89-13 change to "Department of Urban Studies".
- Page 6....AS-89-26 under "Business - *Other required courses" Principles of Microeconomics, should be 3250:202. The original proposal had the wrong number.
- Page 7....AS-89-29 Add "Description"
3470:689 Advanced Topics in
Statistics 1-3 credits.
Selected topics in statistics
including concepts in advanced
inference, sequential analysis,
reliability theory, quality control,
experimental design, survey design,
regression, and Bayesian statistics.
- Page 37....FAA-89-14 "ethiology" should be "etiology".

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 1989 (unless otherwise noted).

AS-89-11 Department of Biology

Revise program for the M.S. in Biology
Refer to page 149 in the General Bulletin

Add as Requirements (for both options)

- * Possess the equivalent of a biology undergraduate major with a GPA of 3.0 or higher in biology courses
- * Submit three letters of recommendation
- * Submit scores for Graduate Record Examination (Aptitude and Advanced Biology Tests)
- * Submit a letter of proposed area of specialization within biology

Delete from Non-Thesis Option the following:

This program is designed for secondary school teachers. The curriculum is oriented to the needs of the student for whom the M.S. degree will probably be the terminal scientific degree and who does not need extensive research experience.

Add to the Non-Thesis Option the following:

This program is designed exclusively for secondary school teachers for whom the M.S. degree probably will be a terminal degree and who do not need research experience. The program is open only to applicants possessing a teaching certificate or those co-registering with the college of Education and showing normal progress towards qualifying for a certificate.

AS-89-12 Department of Economics

Change in Requirements for M.A. Program in Economics
Refer to page 149 in the General Bulletin

Thesis Option:

Drop Students who elect the thesis option will not have to take departmental comprehensive examination, provided they have completed all core courses with grades of "B" or better.

Non-Thesis Option:

Drop A comprehensive examination is intended to test the candidate's knowledge of economic theory and the chosen field of specialization.

AS-89-14 Department of Urban Studies

Add	3980:622	Health Planning and Public Policy. 3 credits. Basic knowledge of the health service delivery system is provided for planners and administrators in the public sector.
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AS-89-39 Department of Urban Studies

New Program - Master of Urban Planning, Design, and Development

Admission Requirements:

1. Students must meet the basic requirements established by the Graduate School. These include a college degree and a 2.75 G.P.A. overall, or 3.00 G.P.A. for the last two years. A college degree is defined as a baccalaureate degree from a regionally accredited institution or the appropriate equivalent degree from a non-U.S. university.

Beginning part-time graduate students must meet the same requirements as full-time students.

2. A Special Admissions category is also recognized by the Graduate School. This is sometimes granted to promising students with non-traditional backgrounds, and others, whose G.P.A.'s are between 2.50 and 2.75. These students are given full status upon the successful completion of 18 semester credits of graduate work. Transfers from other Graduate Schools must also meet all requirements of the Graduate School. Work taken at other institutions is evaluated and up to one-third of the credits required for their program at The University of Akron may be transferred if relevant.

3. In some cases minority and handicapped students will be given special consideration, but, for the most part, they must meet all the requirements of the Graduate School.

Counseling and Appraisal

1. Faculty provide career guidance informally and through regular meetings with their advisees. Considering the small size and favorable staff-to-student ration, a more formal structure is unnecessary.
2. Each student is assigned a faculty advisor who must approve student course selection prior to each semester's registration. Special counseling and assistance is being provided to international students who have language problems.
3. Academic progress is evaluated both by individual faculty members through their contact with students in courses, and by a periodic review of all students' performance.

(1) General Core (4 courses)

3980:600	Basic Quantitative Research and	
3980:601	Advanced Research and Statistical	
	Methods	6 credits.
		OR:
3350:583	Basic Quantitative Research	
3350:680	Advanced Research and	
	Statistical Methods	
3980:602	History of Urban Development	3 credits.
3250:605	Public Sector Microeconomics	3 credits.
	Total	12 credits.

(2) Urban Planning Core (3 courses)

3350:533	Introduction to Urban &	
	Regional Planning	3 credits.
3980:632	Land Use Planning Law	3 credits.
3980:637	Implementation of Planning	
	Techniques	3 credits.
		OR:
3350:536	Planning Techniques	
	Total	9 credits.

(3) Urban Development Core (3 courses)

3980:642	Municipal Budgeting	3 credits.
3980:641	Urban Economic Growth &	
	Development	3 credits.
3350:550	Development Planning	3 credits.
	Total	9 credits.

(4) Urban Design Core (3 courses)

KSU	Introduction to Urban Design	3 credits.
KSU	Urban Design Theory	3 credits.
3350:641	Urban Design Techniques	3 credits.
	Total	9 credits.

(5) Electives (2 courses)

Two courses from planning specializations	6 credits.
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(6) Planning Seminar (1 course)

3980:639	Planning Seminar	3 credits.
		OR:
3350:639	Planning Seminar	
	Total	48 credits.

Internship - A one to three credit hour internship will be required of students with no previous professional planning experience.

Add	3250:605	Public Sector Micro-economics.	3 credits.
		Application of microeconomic analysis to public policy issues; study of selected concepts within the public sector.	

Add	3350:641	Urban Design Techniques.	3 credits.
		Prerequisite: Introduction to Urban Design and Urban Design Theory.	
		Practical approaches to urban design problems at the neighborhood, district or city levels. Students will present solutions in graphics formats.	

Title

3350:433/533	Urban, Regional & Resource Planning	3 credits. TO:
	Introduction to Planning	
3350:436/536	Urban Land Use Analysis	3 credits. TO:
	Planning Techniques	
3350:450/550	Development Planning in the Third World	3 credits. TO:
	Development Planning	

3350:483/583	Spatial Analysis	3 credits. T0:
	Basic Quantitative Research	
3350:680	Advanced Spatial Analysis	3 credits. T0:
	Advanced Research and Statistical Methods	
3980:632	Land-Use Control	3 credits. T0:
	Land Use Planning Law	
3980:637	Field Methods in Urban and Regional Planning	3 credits. T0:
	Implementation of Planning Techniques	

Title, Description

3980:600	Basic Analytical Research	3 credits. T0:
	Basic Quantitative Research	
	Examines basic framework of social science research methodologies and basic complementary statistical techniques, including probability and sampling.	
3980:602	American Urban Development	3 credits. T0:
	History of Urban Development	
	Examination of major literature on processes of urbanization in the United States and selected facets of urban institutional development.	

BA-89-08 Department of Marketing

Revise Program

Industrial Marketing Track and Sales Track	T0:
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Industrial and Organizational Sales Track	
----------------------------------------------	--

Total Program Credit Hours Required	18	T0:
	21	

Drop

Sales Track	
Industrial Marketing Track	

Change in General Bulletin Description - Page 92

The marketing curriculum is designed to provide the student with the basic understanding and insight required for the successful performance and management of the marketing activities of either profit-making or non-profit organizations. It is also organized to provide the student who has an interest in a specific area of marketing study with alternative approaches to marketing knowledge by means of five specific marketing tracks and one general marketing studies option. The marketing tracks are:

- Industrial and Organizational Sales
- Retail Management
- International Marketing
- Marketing Communications
- Physical Distribution
- General Marketing

The general marketing studies option allows the student to tailor the curriculum to individual needs, to engage in an exploratory study which will provide the basis for future studies, to facilitate access to a wider range of entry-level employment opportunities or to enable the student to relate the curriculum to the needs of a small or family business.

To receive a Bachelor of Science in Business Administration/Marketing the student must successfully complete 21 credits in one of the five marketing tracks or the general marketing option.

Industrial and Organizational Sales Track
Departmental Track Requirements

360:	Business Marketing Management
370:	Purchasing
375:	Professional Selling
380:	Sales Management
460:	Marketing Research
475:	Industrial and Organizational Sales Strategy

Departmental Track Electives (Select One)

310:	Buyer Behavior
350:	Advertising & Marketing Communications
390:	Management of Marketing Channels
440:	Product Planning

University Free Elective Recommendations

The Marketing Department recommends that the student select free electives that will enhance the individual's oral and written communications, people skills, and problem solving capabilities. For specific recommendations, see the latest edition of CBA Curriculum Guidelines for Baccalaureate degrees.

Title, Description

6600:360	Industrial Marketing	3 credits. TO:
	Business Marketing Management Examines organizational/buyer behavior and the strategic marketing management of firms selling to business organizations, government agencies, or institutions.	

Description

6600:375	Professional Selling	3 credits.
	An introductory course covering prospecting, establishing seller-buyer relationships, understanding customer needs, persuading, overcoming resistance, and closing sales.	

Description

6600:380	Sales Management	3 credits.
	Examines the process of organizing, selecting, training, motivating, and controlling a sales force.	

Add	6600:475	Industrial and Organizational Sales Strategy	3 credits.
		Prerequisite: 6600:300 and 6600:375 or 380. Advanced study of current issues and problems in selling and sales management within the industrial and organizational market sector.	

REVISE PROGRAM

Retail Marketing Track	TO:
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Retail Management Track	
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Total Program Credit Hours Required	18	TO:
	21	

Retail Management Track
Departmental Track Requirements

310:	Buyer Behavior
340:	Principles of Retailing
390:	Management of Marketing channels
395:	Applications in Retail Merchandising
400:	Strategic Retail Management

Departmental Track Electives - Select two

350:	Advertising & Marketing communications
375:	Professional Selling
425:	Advertising Research and Evaluation
460:	Marketing Research

University Free Electives Recommendations

The Marketing Department recommends that the student select free electives that will enhance the individual's oral and written communications, people skills, and problem solving capabilities. For specific recommendations, see the latest edition of CBA Curriculum Guidelines for Baccalaureate degrees.

Title, Description

	6600:340	Retail Management	3 credits. TO:
		Principles of Retailing A survey of the basic concepts and principles of retailing in terms of store organization, store personnel, store facilities, market analysis, site selection, product mixes, retail buying, merchandise handling, inventory planning and control, retail pricing and promotions.	
Add	6600:395	Applications in Retail Merchandising Prerequisite: 6600:300 Marketing Principles. Practical retail applications in the planning and control of merchandise assortments, merchandise budgets, inventory systems, buying procedures, vendor relationships, and pricing practices.	3 credits.
Add	6600:400	Strategic Retail Management Prerequisite: 6600:300 Marketing Principles and 340 or 395. Integration of strategic and tactical retail decisions and issues through the use of case analyses, computer applications, experimental exercises, and field projects.	3 credits.

REVISE PROGRAM**Marketing Communications Track**

Total Program Credit Hours Required	18	T0:
	21	

Marketing Communications Track
Departmental Track Requirements

310:	Buyer Behavior
350:	Advertising and Marketing Communications
430:	Promotional Campaigns
460:	Marketing Research

Departmental Track Electives - Select three

340:	Principles of Retailing
375:	Professional Selling
380:	Sales Management
1425:	Advertising Research and Evaluation
440:	Product Planning

University Free Elective Recommendations

The Marketing Department recommends that the student select free electives that will enhance the individual's oral and written communications, people skills, and problem solving capabilities. For specific recommendations see the latest edition of CBA Curriculum Guidelines for Baccalaureate degrees.

Prerequisite

6600:350	Advertising & Marketing Communications	3 credits. T0:
	Prerequisite: 6600:300 Marketing Principles	

REVISE PROGRAM**Physical Distribution Track**

Total Program Credit Hours Required	18	T0:
	21	

CT-89-19 Engineering and Science Technology Division

Title, Credit Hours, Prerequisite, Description

	2860:350	Advanced Circuits	4 credits. T0:
		Advanced Circuit Theory	3 credits.
		Prerequisite: 2860:231, 2860:225. Corequisite: 2020:334. Nodal, mesh, Thevenin, and dependent sources in resistive circuits. Inductor and capacitor as time domain elements. First- and second-order circuit analysis. Phasor analysis. Operational amplifier analysis.	
Title			
	2860:352	Digital Systems	4 credits T0:
		Microprocessor Systems	
Title, Prerequisite			
	2860:400	Data Analysis	3 credits T0:
		Computer Simulations in Technology Prerequisite: 2860:354; 2020:345; 3460:201 or 205; 2820:210	
Add	2860:354	Advanced Circuit Applications	4 credits.
		Prerequisite: 2860:350; 2020:334; and 3460:201 or 3460:205 or 2820:210. Introduction to PSPICE. Calculating electrical power. Series and parallel resonance. LaPlace transforms in operational circuit analysis. Transfer functions, impulse function, Bode diagrams, Fourier Series.	
Add	2860:451	Industrial Electrical Systems	3 credits.
		Prerequisite: 2860:354; 3460:201 or 205 or 2820:210. Electric power, industrial nameplates, power factor correction, mutual inductance, linear transformers, power transformers, polyphase systems, per-phase analysis, system grounding, protective device coordination computer-aided analysis.	

Add 2860:420 Biomedical Electronic Instrumentation 3 credits.
 Prerequisite: 2860:354.
 Introduction to electrical signals from the body, transducers, recording devices, telemetry, microprocessor applications and electrical safety of medical equipment.

Add 2860:430 Senior Topics in Electronic Technology 3 credits.
 Prerequisite: 2860:354, 2860:400.
 Study of advanced topics in electronic technology.

Add 2020:345 Basic Techniques for Data Analysis 2 credits.
 Prerequisite: 2020:132 or 2020:142.
 Data summarization including graphic presentations, numerical measures, introduction to probability, confidence intervals, and hypothesis testing.
 Computer usage incorporated.
 For Community and Technical students only.

Number, Prerequisite

	2860:353	Control Systems	4 credits. T0:
	2860:453	Prerequisite: 2860:231, 350	
Drop	2860:410	Technology Project	1 credit.
	3470:261	Introductory Statistics	2 credits.
	2860:351	Industrial Electrical Systems	3 credits.

Prerequisite

	2860:406	Communication Systems	3 credits. T0:
		Prerequisite: 2860:251, 354	

Additional Elective Computer Programming Courses Current Computer Programming Course Requirements

	3460:201	Fortran Computer Programming Elective	2 credits.
			2 credits.

Proposed Computer Programming Electives
2 credits of computer electives to be chosen from:

3460:201	Fortran	2 credits.	OR:
3460:205	Pascal	2 credits.	OR:
2820:210	Fortran for Technologists	2 credits.	

CT-89-22 Business Technology Division

Restaurant Management Option

Drop	1100:105	Introduction to Public Speaking	3 credits.	OR:
	1100:106	Effective Oral Communication	3 credits.	
Add	2020:240	Human Relations	3 credits.	

Restaurant Management Option and Hotel/Motel Management Option
Offer Choice:

2530:103	Principles of Advertising	3 credits.	OR:
2440:120	Computer and Software Fundamentals	2 credits.	

The student taking Computer and Software Fundamentals would take 2280:237 Internship (1 credit) for two semesters. Internship involves working with companies and completing actual "case studies" for them.

Drop	2280:236	Food and Beverage cost Control	3 credits.
Add	2280:238	Cost Control Procedures Prerequisite: 2420:170. Methods of financial control of an operation are presented and discussed with case study exercises. Hands-on experience with NCR 2160 Computer System.	3 credits.
	2280:265	Beverage Operations Purchasing, inventory control, and accounting of alcoholic beverage service used in the hospitality industry. Review of local, state, and federal beverage regulations.	3 credits.

CT-89-24 Business Technology Division**Revise Accounting Option of the Business Management Technology Program**

Drop	2440:130	BASIC Programming for Business	3 credits.
	2440:250	BASIC Programming Applications in Business	5 credits.
Add	2440:120	Computer and Software Fundamentals	2 credits.
	2440:125	Lotus 1-2-3	2 credits.
	2440:151	PC DOS Fundamentals	1 credit.
	2440:245	DBMS for Microcomputers	3 credits.

CT-89-26 Engineering and Science Technology Division**Number**

2920:242	Design Materials	3 credits. TO:
2920:142		

Change in Degree Requirements

Drop	2920:122	Technical Drawing II	3 credits.
Add	2920:101	Introduction to Mechanical Design Prerequisite: 2940:121 Corequisite: 2020:132. Topics in engineering drawing: conventions, sections, dimensioning, allowances and tolerances, assembly drawings. Practice dimensional conversions, spreadsheets, test planning, data reduction. Discuss technical ethics and responsibilities.	3 credits.
Drop		Technical Electives	

Add	2940:180	Introduction to CAD Introduction to computer drafting, hardware capabilities, drawing, dimensioning, modules, bill of materials, sections, and compute. Credit not applicable toward the AAS in Drafting Technology.	1 credit.
Drop	2980:241	Strength of Materials	3 credits.
Add	2920:201	Mechanical Design I Prerequisite: 2980:125. Principles of stress and strain, combined stress, and Mohr's circle. Experimental stress analysis by strain gage and other methods. Introduction to finite element stress analysis.	4 credits.
Drop	2920:243	Kinematics	2 credits.
	2920:244	Dynamics	2 credits.
Add	2920:231	Kinematics/Dynamics Prerequisite: 2980:125, 2920:101, 2020:132. Motion in mechanical systems, cams, and gear trains. Computer-generated solutions of rigid-body mechanism, particle motions, displacement, velocity, and acceleration. Work and energy methods.	3 credits.
Title, Prerequisite			
	2920:245	Mechanical Design I	5 credits. T0:
		Mechanical Design II 2920:101; 2920:201; 2920:142	
Prerequisite			
	2920:251	Fluid Power 2820:153	2 credits. T0:
	2920:142	Design Materials No prerequisite or corequisite.	3 credits. T0:

CT-89-28 Engineering and Science Technology Division

Title, Credit Hours

2880:100	Introduction to Manufacturing Management	3 credits. TO:
	Basic Principles of Manufacturing Management	4 credits.
2880:130	Work Measurement Procedures I	2 credits. TO:
	Work Measurement and Cost Estimating	3 credits.

Title

2880:241	Quality Control Procedures	3 credits. TO:
	Introduction to Quality Assurance	

Title, Prerequisite

2880:211	Computerized Manufacturing I	3 credits. TO:
	Computerized Manufacturing Control. 2880:100	

Change in Degree Requirements

Drop	2880:141	Safety Procedures	3 credits.
Add	2880:110	Manufacturing Processes Study of the machines, methods, and processes used in manufacturing.	2 credits.
	2940:180	Introduction to CAD Introduction to computer drafting, hardware capabilities, drawing, dimensioning, modules, bill of materials, sections, and compute. Credit not applicable toward the AAS in Drafting Technology.	1 credit.
Drop	2840:100	Basic Chemistry	3 credits.
Add	2820:152	Basic Physics: Electricity and Magnetism	2 credits.

Drop	2880:101	Introduction to CAM	3 credits.
Add	2880:201	Robotics and Automated Manufacturing Prerequisite: 2880:100 or permission of instructor. Study of manufacturing automation and the computer-based products and processes available for this task. Robots, machine controllers, and machine/process interfaces are investigated.	3 credits.
Drop	2880:200	Manufacturing Profitability	3 credits.
Add	2880:222	Computer Numerically Controlled Manufacturing Prerequisite: 2880:110; 2020:233. CNC programming for CNC mills and lathes. Includes machine setup, tool selection as well as feed and speed calculations.	3 credits.
Drop	2880:235	Work Measurements Procedures II	2 credits.

CT-89-29 Engineering and Science Technology Division**Change in Degree Requirements**

Drop	2880:141	Safety Procedures	3 credits.
	2920:247	Technology of Machine Tools	3 credits.
Add	2880:110	Manufacturing Processes Study of the machines, methods, and processes used in manufacturing.	2 credits.
Drop	2880:210	Controlling and Scheduling Production	2 credits.
Add	2880:211	Computerized Manufacturing Control	3 credits.
Drop	2880:235	Work Measurement Procedures II	2 credits.
Add	2820:121	Technical Computations	1 credit.

CT-89-31 Associate Studies Division

New Program

Commercial Photography

A Major within the Commercial Art Program

This program provides comprehensive hands-on training in varied commercial photography specialties, preparing students for beginning employment in commercial photography studios, professional portrait studios, advertising agencies, and industry.

Title, Number

	2240:222	Introduction to Commercial Photography	3 credits. TO:
	2240:122		
	2240:224	Commercial Photography II	3 credits.
		Illustration/Advertising Photography	
Add	2240:110	Multi-Image Production	3 credits
		Prerequisite: 7100:275 or 7600:280.	
		Students explore the equipment, techniques, and applications of multi-image presentations while producing a synchronized multi-projector A-V show.	
Add	2240:210	Portrait/Fashion Photography	3 credits.
		Prerequisite: 2240:122.	
		The fundamentals of commercial portraiture and fashion photography are explored through the study of styling, posing, lighting, and working with people.	
	2240:250	Advanced Commercial Photography	3 credits.
		Prerequisite: 2240:210 and 2240:224. Students explore advanced techniques within a commercial photography specialty of their choice while producing photographs for a commercially oriented portfolio.	

2240:252 Professional Photographic Practices 3 credits.
 Prerequisite: 2240:210 and 2240:224. Students confront the business and marketing practices unique to the commercial photography industry while producing a photographically oriented self-promotional campaign.

Number, Description

2240:222 Introduction to Commercial Photography 3 credits. T0:
 2240:122 While working through a series of advertising-related photographic projects, students are introduced to the numerous commercial applications of studio and location photography.

Title, Prerequisite, Description

2240:224 Commercial Photography II 3 credits. T0:
 Illustration/Advertising Photography.
 Prerequisite: 2240:122. Professionally oriented photographic skills are further developed as students confront assignments closely related to current trends in illustration and advertising photography.

CT-89-32 Engineering and Science Technology Division

Prerequisite, Corequisite

2820:121 Technical Computations 1 credit. T0:
 Prerequisite: 2020:151, 2940:151 Corequisite for Drafting Technology Students Only.
 2820:151 Basic Physics: Mechanics 3 credits. T0:
 Corequisites: 2020:152, 2020:153

2820:152	Basic Physics: Electricity and Magnetism	2 credits. T0:
	Prerequisites: 2820:153, 2020:153	
2820:153	Basic Physics: Heat, Light, and Sound	2 credits. T0:
	Prerequisites: 2820:153, 2020:153	
2820:210	Fortran for Technologists	2 credit. T0:
	Prerequisites: 2020:153, 2820:121	
2840:250	Elements of Physical Chemistry	3 credits. T0:
	Prerequisites: 2820:153, 2840:102, 2020:154	
2860:120	DC Circuits	4 credits. T0:
	Corequisites: 2020:152, 2020:153	
2860:122	AC Circuits	3 credits. T0:
	Prerequisite: 2860:120, 2020:154	
2860:231	Control Principles	3 credits. T0:
	Prerequisites: 2860:225, <u>OR</u> 2860:271, 2020:255	
2860:270	Survey of Electronics I	3 credits. T0:
	Corequisites: 2020:152, 2020:153	
2860:271	Survey of Electronics II	3 credits. T0:
	Prerequisite: 2860:270, Corequisite: 2020:154	
2860:350	Advanced Circuits	4 credits. T0:
	Prerequisites: 2860:123, 2860:242, 2020:356	

2880:241	Quality Control Procedures	3 credits. T0: Prerequisites: 2020:153, 2880:100
2920:244	Dynamics	2 credits. T0: Prerequisites: 2020:255, 2920:243, 2980:125
2920:249	Applied Thermal Energy	2 credits. T0: Prerequisites: 2020:255, 2820:153
2920:251	Fluid Power	2 credits. T0: Prerequisites: 2020:255, 2820:153
2920:347	Production Machinery and Processes	3 credits. T0: Prerequisites: 2020:356, 2920:247
2920:348	Introduction to Numerical Control	3 credits. T0: Prerequisites: 2020:154, 2940:121
2940:140	Survey of Engineering Technology	3 credits. T0: Prerequisite: 2020:151
2940:150	Drafting Design Problems	2 credits. T0: Prerequisite: 2020:152, Corequisite: 2820:121
2940:170	Surveying Drafting	3 credits. T0: Prerequisite: 2940:121, Corequisite: 2020:152
2980:125	Statics	3 credits. T0: Prerequisite: 2820:151, Corequisite: 2020:153

Change in Degree Requirements
Electronic Technology (Associate Degree)

Drop	2020:131	Mathematical Analysis I	4 credits.
Add	2030:152	Elements of Mathematics II	2 credits.
	2030:153	Elements of Mathematics III	2 credits.
Drop	2020:132	Mathematical Analysis II	3 credits.
Add	2030:154	Mathematical for Engineering Technology I	3 credits.
Drop	2020:233	Mathematical Analysis III	3 credits.
Add	2030:255	Mathematics for Engineering Technology II	3 credits.

Change in Degree Requirements
Electronic Technology (Bachelor Degree)

Drop	2020:131	Mathematical Analysis I	4 credits.
Add	2030:152	Elements of Mathematics III	2 credits.
Drop	2020:132	Mathematical Analysis II	3 credits.
Add	2030:154	Mathematics for Engineering Technology I	3 credits.
Drop	2020:233	Mathematical Analysis III	3 credits.
Add	2030:255	Mathematics for Engineering Technology II	3 credits.
Drop	2020:334	Mathematics for Technical Applications	3 credits.
Add	2030:356	Mathematics for Engineering Technology III	3 credits.

Change in Degree Requirements
Manufacturing Technology (Associate Degree - CAM Option)

Drop	2020:131	Mathematical Analysis I	4 credits.
Add	2030:152	Elements of Mathematics II	2 credits.
	2030:153	Elements of Mathematics III	2 credits.
Drop	2020:132	Mathematical Analysis II	3 credits.
Add	2030:154	Mathematics for Engineering Technology I	3 credits.

Drop	2020:233	Mathematical Analysis III	3 credits.
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Add	2030:255	Mathematics for Engineering Technology II	3 credits.
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Change in Degree Requirements
Manufacturing Technology
(Associate Degree - Industrial Supervision Option)

Drop	2020:131	Mathematical Analysis I	4 credits.
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Add	2030:151	Elements of Mathematics I	2 credits.
	2030:152	Elements of Mathematics II	2 credits.

Change in Degree Requirements
Surveying and Construction Technology
(Associate Degree - Surveying Option and Construction Option)

Drop	2020:131	Mathematical Analysis I	4 credits.
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Add	2030:152	Elements of Mathematics II	2 credits.
	2030:153	Elements of Mathematics II	2 credits.

Drop	2020:132	Mathematical Analysis II	3 credits.
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Add	2030:154	Mathematics for Engineering Technology I	3 credits.
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Drop	2020:233	Mathematical Analysis III	3 credits.
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Add	2030:255	Mathematics for Engineering Technology II	3 credits.
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Change in Degree Requirements
Drafting Technology (Associate Degree)

Drop	2020:131	Mathematical Analysis I	4 credits.
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Add	2030:151	Elements of Mathematics I	2 credits.
	2030:152	Elements of Mathematics II	2 credits.

CT-89-35 Associate Studies Division

New Program (Certificate)
Supervision and Management Certificate Program

The Supervision and Management Certificate Program is aimed at providing knowledge and skills to the new and existing supervisor as well as to the individual who aspires to a supervisory position. The certificate program has been carefully designed to be flexible in order to meet the needs of various organizations and individuals. This program is in response to what many employers in the area have identified as a need that the Community and Technical College could help them meet.

A minimum of 18 semester hours is required.

Courses: One course must be taken from each of the following four categories:

1. Management Theory and Skills

2420:103	The Role of Supervision in Management	3 credits.
2250:260	Administration in the Public Services	3 credits.
2880:100	Introduction to Manufacturing Management	4 credits.

2. Interpersonal Skills

2020:240	Human Relations	3 credits.
2020:251	Work Relationships	3 credits.

3. Communication Skills

2540:263	Business Communications	3 credits.
2020:121	English	4 credits.
2020:222	Technical Report Writing	3 credits.

4. Math

2020:131	Mathematical Analysis I	4 credits.
2420:170	Business Mathematics	3 credits.

In addition to the above courses, a minimum of 6 semester hours must be completed from the following:

2420:211	Basic Accounting I	3 credits.
2020:247	Survey of Basic Economics	3 credits.
2420:202	Personnel Practices	3 credits.
2420:121	Office Management	3 credits.
2440:120	Computer and Software Fundamentals	2 credits.
2880:210	Controlling and Scheduling Production	2 credits.
2880:232	Labor Management Relations	3 credits.
2880:241	Quality Control Procedures	3 credits.

CT-89-36 Business Technology Division

Revise Marketing and Sales Technology Program

Credit Hours

2520:106	Visual Promotion	4 credits. TO: 3 credits.
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2520:202	Retailing Fundamentals	4 credits. TO: 3 credits.
2520:212	Principles of Sales*	4 credits. TO: 3 credits.

Change in Degree Requirements

Add	2520:215	Advertising Projects	2 credits.
		Prerequisites: 2520:103, 2520:206. A workshop for students interested in developing their advertising and creative promotional skills. Projects would include "real world" situations facing prospective users of advertising.	

	2520:217	Merchandising Projects	2 credits.
		Prerequisites: 2420:101, 2520:202. Students would be charged with "creating" a retail operation including the establishment and defense of planning, site selection, merchandise and pricing, and promotion strategies.	

Add	2520:219	Sales Projects	2 credits.
		Prerequisite: 2520:212, Allows students to sharpen skills necessary to make an effective sales presentation. Extensive use of video-tape analysis. Team as well as individual sales presentation.	

(NOTE: STUDENTS WILL BE REQUIRED TO TAKE ANY TWO (2) OF THE
ABOVE COURSES, NOT ALL THREE.)

Number, Title, Credit Hours

2520:290:001	Special Topics in Marketing and Sales - Ad Project (may be repeated once)	1 credit.	T0:
2520:221	AAF Advertising Campaign - I	2 credits.	AND:

2520:222	AAF Advertising Campaign - II	2 credits.
	Prerequisite: 2520:221 or permission. These sequential courses have one function: to have students prepare an entry for the annual American Advertising Federation's Collegiate Advertising Competition.	
2520:290	Special Topics in Marketing and Sales - Humor in Advertising	2 credits. TO:
2520:234	Humor in Advertising. Course looks at humor in our society and how and why it has been used by advertising practitioners; uses individual and group projects.	

(NOTE: COURSE WOULD BE REQUIRED ONLY FOR THOSE STUDENTS IN THE ADVERTISING EMPHASIS IN OUR PROGRAM. FOR ALL OTHERS IT WOULD BE AN ELECTIVE.)

CT-89-37 Business Technology Division

New Program Option Marketing and Sales Technology

Proposed Program Outline - Computer Sales Option First Year - First Semester

1100:	Physical Education	1 credit.
2420:101	Elements of Distribution	3 credits.
2420:111	Public Relations	2 credits.
2420:170	Business Mathematics	3 credits.
2540:119	Business English	3 credits.
2440:120	Computer & Software Fundamentals	2 credits.
2540:140	Keyboarding for Non-Majors	2 credits. OR:
2540:141	PC - Word Processing for Non-Majors	2 credits.
		<u>16 Total</u>

Second Semester

2020:121	English	4 credits.
2020:240	Human Relations	3 credits.
2420:211	Accounting I	3 credits.
2520:103	Principles of Advertising	3 credits.
2440:125	Current Top Man -	

2440:151	Lotus 1-2-3	2 credits.
	PC DOS	1 credit.
		<u>16 Total</u>

Second Year - First Semester

2020:247	Survey of Basic Economics	3 credits.
2520:106	Visual Promotion	3 credits.
2520:202	Retailing Fundamentals	3 credits.
2520:210	Consumer Service Fundamentals	2 credits.
2520:212	Principles of Sales	3 credits.
2440:245	DBVMS	3 credits.
		<u>17 Total</u>

Second Semester

1100:105	Introduction to Public Speaking	3 credits.
2420:280	Essentials of Law	3 credits.
2520:211	Math of Retail Merchandising	3 credits.
2440:247	Microcomputer Hardware and Software Selection	3 credits.
2520:217	Merchandising Projects	2 credits.
2520:219	Sales Projects	2 credits.
		<u>16 Total</u>

Total Credits Required	65
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ED-89-04 Counseling and Special Education

Revise Master's Degree Program in Counseling to Meet Accreditation Requirements

Title, Description

5600:647	Career Counseling: Theory and Practice	3 credits. TO:
	Career Development and Counseling Across the Lifespan. Overview of career development and choice over the lifespan. Personal, family, and societal characteristics that affect choice, career choice, and implementation are discussed.	

Revise Program
 Marriage and Family Therapy
 Master's Program: M.A., M.S.

Foundations (10)

7400:607	Family Dynamics	3 credits
3750:500	Personality	4 credits OR:
3750:520	Abnormal Psychology	4 credits. OR:
5100:640	Techniques of Research	3 credits.
5100:741	Statistics in Education	3 credits.

Marriage and Family Therapy (38)

5600:600	Seminar in Counseling	1 credit.
5600:645	Group Testing in Counseling	3 credits.
5600:647	Career Development and Counseling Across the Lifespan	3 credits.
5600:651	Techniques of Counseling	3 credits.
5600:653	Group Counseling	4 credits.
5600:655	Marriage and Family Therapy: Theory and Techniques	3 credits.
5600:665	Seminar: Counseling Practice	3 credits.
5600:667	Marital Therapy	3 credits.
5600:669	Systems Theory in Family Therapy	3 credits.
5600:671	Counseling Clinic	1 credit.
5600:675	Practicum in Counseling I	5 credits.
5600:685	Internship	6 credits.

Specialized Studies (10-13)
Family Studies (5-6)

7400:651	Family and Consumer Law	3 credits.
7400:602	AND ONE OF THE FOLLOWING: Family in Life-Span Perspective	2 credits.
7400:605	Developmental Parent-Child Interactions	3 credits.
7400:675	Conceptual Frameworks in Family Ecology	3 credits.

Sex (2-3)

5600:620	Topical Seminar: Substance Abuse	2 credits. OR:
5600:620	Topical Seminar: Sexuality	2 credits. OR:
7400:542	Human Sexuality	

Human Development-Individual Differ. (3-4)

3750:500	Personality	4 credits	OR:
3750:520	Abnormal Psychology	4 credits.	OR:
3750:530	Psych. Disord. Chld.	4 credits.	OR:
3750:550	Cognitive Development	4 credits.	OR:
5100:721	Learning Processes	3 credits.	OR:
7400:665	Dev: Infant-Early Child	3 credits.	

Total Program 58 credits.

ED-89-05 Special Education

Revise Special Education Program - Master's Level

Foundation Core (9 hours required)

5100:600	Philosophies of Education	3 credits.	OR:
5100:604	Topical Seminar in Cultural Foundations of Education	3 credits.	
5100:620	Behavioral Bases of Education	3 credits.	OR:
5100:624	Seminar: Educational Psychology	3 credit.	
5100:640	Techniques of Research	3 credits.	

Total 9 credits.

Departmental Core (12-18 hours required)

5600:610	Counseling Skills for Teachers	3 credits.	
*5610:601	Seminar: Curriculum Planning in Special Education	3 credits.	
#5610:603	Assessment and Educational Programming in Special Education	3 credits.	
##5610:604	Education and Management Strategies for Parents of Exceptional Individuals	3 credits.	
*5610:605	Program Development and Service Delivery Systems SE	3 credits.	
5610:606	Research Design and Practice in Special Education	3 credits.	
5610:612	Issues in Special Education	3 credits.	

Total 12-18 credits.

Department: Master's Paper (choose one)

5610:694	Research Project in Special Area (Scholarly Paper)	3 credits.
5610:698	Master's Problem Special Education	3 credits.
5610:699	Thesis Research Special Education	3 credits.
Total		3 credits.

Electives (9-15 hours)

Completion of at least 9 hours with the approval of your major advisor (may include a directed field experience).

CERTIFICATION: SPECIAL EDUCATION SUPERVISOR

The supervisor's certificate may be issued to a holder of a master's degree, plus 27 months teaching experience in the area to be supervised and completion of the following course work:

*5100:600	Philosophies of Education	3 credits.
*5100:620	Behavioral Bases of Education	3 credits.
*5100:640	Techniques of Research	3 credits.
5700:610	Principles of Education Supervision	3 credits.
5700:710	Curriculum Development	3 credits.
*5610:601	Seminar: Curriculum Planning in Special Education	3 credits.
5610:602	Supervision of Instruction in Special Education	3 credits.
5700:695	Field Experience for Supervisors	2 credits.
Total		23 credits.

*Required as part of Special Education Master's Supervisory certification requirements are subject to current Ohio certification standards.

*Choose one of two

#Not required if 5610:463/563 taken as undergraduate or graduate.

##Not required if 5610:459/559 taken as undergraduate or graduate.

ED-89-07 Counseling and Special Education

Revise Counseling in Elementary or Secondary Schools Program - Master's Level

51 Semester Hours to 50

5610:540	Developmental Characteristics of Exceptional Individuals	3 credits.
5600:620	Topical Seminar: Substance Abuse and Sexuality	2 credits.

Subtotal from 6 to 5 credits.

Total Semester Hours Required for Graduation from 51 to 50

ED-89-08 Special Education

Revise Program - Developmentally Handicapped
Title, Credit Hours

Drop	5610:441/541	Developmental Characteristics of the Developmentally Handicapped	3 credits.
Drop	5610:442/542	Developmental Characteristics of the Multihandicapped	3 credits. TO:
Add	5610:441/541	Developmental Characteristics of the Mentally Retarded Prerequisites: 5610:440/540 A survey of the etiology, diagnoses, classification, and developmental characteristics of individuals with mental retardation and developmental disabilities. This course will include individuals classified at all levels of mental retardation: mild, moderate, severe, and profound.	4 credits

Multihandicapped Program
Drop from Program and University Offering

	5610:442/542	Developmental Characteristics of the Multihandicapped	3 credits.
	5610:453/553	Special Education Programming: Multihandicapped I	3 credits.
	5610:454/554	Special Education Programming: Multihandicapped II	3 credits.
Drop as a Requirement			
	5610:468/568	Advanced Behavior Management	3 credits.
Add	5610:441/541	Developmental Characteristics of the Mentally Retarded	4 credits.

5610:454/554 Special Education Programming: Multihandicapped 4 credits.
Prerequisites: 5610:441/541.
This course consists of curriculum and teaching practices for individuals with mental retardation in combination with other handicapping conditions.

5610:450/550 Special Education Programming: Early Childhood 3 credits. OR:

5610:452/552 Special Education Programming: Secondary/Vocational 3 credits.

Severe Behavior Handicapped

Drop 5610:468/568 Advanced Behavior Management 3 credits.

Add to required courses sequence 3 hours of electives

Orthopedically Handicapped

Drop from Program

5610:469/568 Advanced Behavior Management 3 credits.

7700:271 Language of Signs I 3 credits.

Drop one of three from:

5610:450/550 Special Education Programming: Early Childhood 3 credits.

5610:451/551 Developmental Characteristics of the Mentally Retarded 4 credits.

5610:452/552 Special Education Programming: Secondary/Vocational 3 credits.

EN-89-24 Biomedical Engineering

Revise Master of Science in Engineering Program

Core:

4800:601	Biomedical Instru- mentation	4 credits.
4800:611	Biometry	3 credits.
4800:697	ST: Physiology for Engineers & Lab	5 credits.

Tracks: Nine credits from either Track I or II 9 credits.

Track I: Biomedical Signals and Systems
Courses numbered 4800:620 - 639
and approved 4800:697 courses.

Track II: Biomechanics and Biomaterials Courses
numbered 4800:640 - 669
and approved 4800:697 courses.

Approved Electives: 6 credits.

Thesis: 4800:699 Thesis 6 credits.

EN-89-25

Revise Ph.D. in Engineering Program

Successful completion of the program requires a minimum of 90 credits. The student must meet one of the following requirements regarding coursework:

1. If the student has a master of science degree before entering the Ph.D. program, he/she must take a minimum of 24 semester credits of coursework at the 600 or 700 level beyond the M.S. requirement. OR:
2. The student must take a minimum of 48 credits of coursework at the 600 or 700 level. OR:
3. The student must take a minimum of 60 credits of graduate coursework.

FAA-89-02 Department of Communication

Change in Program

7600:608	Communication Pedagogy These credits shall not apply to coursework requirements in the department.	3 credits.
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T0:

This course is applicable to the 32 credits of coursework required for the M.A. degree in Communication.

FAA-89-10 School of Art

Add	7100:385	Computer Graphics for Art III	3 credits.
		Prerequisites: 7100:285; 7100:121. Advanced computer imaging course with an emphasis in three dimensional modeling and animation. Can be repeated for a total of 9 credits.	

FAA-89-11 School of Art

I. Add Minor in Computer Imaging

Requirements: Five Courses in Computer Art AND one of the following:

7100:100	History of Art
7100:105	Understanding Art
7100:401	History of Graphic Design

AND:

Portfolio Review prior to the third Computer Art Course

II. Required Credits: 19

These general University minor requirements must be honored:

- A. A minimum grade point average of 2.0 must be maintained in the minor.
- B. All prerequisites must be adhered to.
- C. A minor will be placed on the student's record only at the time the student receives a degree and only on application.
- D. By-pass and non-credit courses are not eligible. All courses must be taken for a letter grade.

III. Rationale

Students graduating with a minor in Computer Imaging will be provided with a wide base of current electronic imaging information. It will cover issues of 2-D imaging and presentation graphics in Computer Graphics for Art I and II. Computer Graphics for Art III will support three-dimensional modeling and animation.

FAA-89-12 School of Home Economics and Family Ecology

Revise Program
Tag Degree Title

Foods and Nutrition

TO:

Food Science

Revise Degree Requirements

Bachelor of Arts in Food Science

In addition to School requirements listed under 7400: Home Economics and Family Ecology, the student must complete the following courses.

Food Science Core

A minimum of grade of "C" (2.00) required for each core course.

7400:245	Food Theory and Application I (a,b,e)	3 credits.
7400:246	Food Theory and Application II (c)	3 credits.
7400:403	Advanced Food Preparation	3 credits.
7400:420	Experimental Foods (e,f)	3 credits.

Supporting Discipline Requirements:

2280:233	Restaurant Operations and Management	4 credits. OR:
7400:310	Food Systems Management I(d)	5 credits AND:
7400:315	Food Systems Management I, Clinical (d)	2 credits.
2440:120	Computer and Software Fundamentals	2 credits.
3100:130	Principles of Microbiology (g)	3 credits.
3750:100	Introduction to Psychology	3 credits.
6500:301	Management Principles and Concepts	3 credits.
6600:300	Marketing Principles	3 credits.
7400:301	Consumer Education	3 credits.

7400:316	Science of Nutrition	4 credits.
7400:340	Meal Service	2 credits.
7400:450	Demonstration Techniques	2 credits.
7400:497	Internship in Home Economics and Family Ecology (g)	5 credits.

Food Science Elective: (g)

Students select one or more of the following upper division Food Science courses. A minimum grade of "C" is required.)

7400:470	The Food Industry: Analysis and Field Study	3 credits.
7400:474	Cultural Dimensions of Food	3 credits.
7400:475	Analysis of Food	3 credits.
7400:476	Developments in Food Science (a)	3 credits.

Language or Language Option Requirements: 14 credits.

General Electives: 7-10 credits

Add	7400:246	Food Theory and Application II	3 credits.
		Prerequisites: 7400:245. Study of chemical and physical structure of foods and the effects of natural changes, preparation and processing on properties and acceptability. Lecture/Laboratory.	

Title, Credits, Description

7400:245	Basic Food Theory and Application	5 credits. TO:
	Food Theory and Application I. Scientific and aesthetic principles in the selection, storage and preparation of foods for optimum nutrition, palatability and safety. Lecture/Laboratory.	3 credits.

Description, Prerequisites

7400:420/520	Experimental Foods	3 credits. TO:
	Prerequisites: 7400:246 and 3150:130. Theory and methods in the experimental	

study of foods. Sensory
evaluation and instrumental
analysis of food quality.
Individual research emphasized.
Lecture/Laboratory.

Title, Prerequisites

7400:476/576 Advanced Food Theory and
Application 3 credits. TO:

Developments in Food Science
Prerequisite: 7400:246

Delete Individual Options of Food Science/Product
Development Business

FAA-89-18 Department of Communication

Revise Undergraduate, Curriculum, and Degree Requirements for
all Majors in Communication.

General Program Requirements

Requirements for transferring into the Department of Communication

Completion of 7600:102, 7600:115, 1100:111 or 2020:121, 1100:112 and
1100:105 or 1100:106 with grade of "C" or better in each course
required to transfer into the department as a major or to enroll in
300-400 level courses in the Department of Communication.

Degree Requirements - Bachelor of Arts

General Studies and Second Year of a Language 53 credits.

Department Core 10 credits.
Grade of "C" or better required for all core courses.

7600:102	Survey of Mass Communication	3 credits.
7600:115	Survey of Communication Theory	3 credits.
7600:200	Careers in Communication	1 credit.
7600:384	Communication Research	3 credits.

Total 10 credits.

Concentration in business and organizational
communication, communication/rhetoric or mass
media communication as described in tracks plus
departmental electives. 36 credits.

University Electives 29 credits.

Bachelor of Arts in Business and Organizational Communication
 Bachelor of Arts in Communication/Rhetoric
 Bachelor of Arts in Mass-Media Communication

General Studies and "tag" degree coursework	53 credits.
Department Core	10 credits.
Area of specialization as described below plus Department of Communication electives	36 credits.
University electives	29 credits
Total	128 credits

Exit Requirement

To graduate with a degree from the Department of Communication, a student must attain an overall minimum of 2.3 GPA for all courses taken in the Department of Communication.

New Track

Corporate Video

7600:201	News Writing	3 credits
7600:280	Media Production Techniques	3 credits.
7600:361	Audio Recording Techniques	3 credits.
7600:362	Video Cam and Rec	3 credits.
7600:463	Corporate Video Design	3 credits.
7600:464	Corporate Video Management	3 credits.
7600:283	TV Production	
7600:466	Audio & Video Editing	6 credits.
7600:467	Directing Video Productions	
7600:492	Corporate Video Practicum	2-6 credits.
Total		26-30 credits.

Drop Major/Tag in Mass Media - Management
 Drop Major/Tag in Mass Media - Production

Add Major/Tag in Broadcasting

Department "Core" Curriculum		10 credits.
Required Courses		24 credits.
7600:280	Media Prod Techniques	3 credits
7600:388	History and Structure of Broadcasting	3 credits.

Select a total of 18 credits from these two blocks:

Select up to a maximum of 15 credits from this section:

7600:282	Radio Production	3 credits.
7600:283	Television Production	3 credits.
7600:288	Film Production	3 credits.
7600:361	Audio Recording Techniques	3 credits.
7600:383	Advanced Television Production	3 credits.
7600:387	Radio/TV Writing	3 credits.

Select up to a maximum of 15 credits from this section:

7600:201	News writing	3 credits.
7600:395	Radio Station Programming and Operations	3 credits.
7600:396	Television Station Programming and Operations	3 credits.
7600:484	Regulations	3 credits.
7600:486	Broadcast Sales and Management	3 credits.

Departmental Electives (12 credits)

Departmental Total - 46 credits.

Revise Major/Tag in Mass Media - News:

Department "Core" Curriculum (10 credits)

Required Courses (24 credits)

*7600:201	News Writing	3 credits.
7600:204	Editing	3 credits.
7600:206	Feature Writing	3 credits.
*7600:280	Media Production Techniques	3 credits.
7600:282	Radio Production	3 credits.
7600:283	TV Production	3 credits.
7600:301	Advanced News Writing	3 credits.
7600:484	Regulation of Media	3 credits.

Departmental Elective Courses 12 credits.

Departmental Total 46 credits.

*Courses from old core added to track requirements

Revise Major/Tag in Business and Organizational Communication:

Department "Core" Curriculum	10 credits.
Required Courses	24 credits.

*7600:201	News Writing	3 credits.
7600:235	Interpersonal Communication	3 credits.
*7600:280	Media Production Techniques	3 credits.
7600:309	Publications Production	3 credits.
7600:335	Organizational Communication	3 credits.
7600:344	Public Decision Making	3 credits.
7600:345	Business and Professional Speaking	3 credits.
7600:403	Communication in Public Relations	3 credits.

Departmental Elective Courses	12 credits.
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Departmental Total	46 credits.
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*Courses from old core added to track requirements.

Revise Major/Tag in Communication and Rhetoric:

Department "Core" Curriculum	10 credits.
Required Courses	18 credits.

7600:225	Listening	1 credit.	
7600:226	Interviewing	1 credit.	
7600:227	Nonverbal Communication	1 credit.	
7600:235	Interpersonal Communication	3 credits.	
*7600:245	Argumentation	3 credits.	
7600:252	Persuasion	3 credits.	
7600:344	Public Decision Making	3 credits.	OR:
7600:454	Group Processes		
7600:357	Speech in America	3 credit.	OR:
7600:470	Analysis of Public Discourse		

Departmental Elective courses	18 credits.
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*Courses from old core added to track requirements.

Drop	7600:401	Photo Editing	3 credits.
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Description, Prerequisites

7600:361	Audio Recording Techniques	3 credits.	T0:
	Prerequisite: 280 and permission. Basic principles of sound, human hearing, and the techniques of		

audio recording. Theory and laboratory training, recording practice in the studio and on location. Lab fee.

Prerequisites

7600:283 Television Production 3 credits. T0:

Prerequisite: 7600:280.

7600:288 Film Production 3 credits. T0:

Prerequisite: 7600:280.

7600:383 Advanced Television
Production 3 credits. T0:

Prerequisite: 283 and
permission.

Add 7600:200 Careers in Communication 1 credit.
A survey of career
opportunities in the
communication field.
Outside speakers; field trips.

7600:362 Video Camera and Recording 3 credits.
Prerequisite: 7600:280.
Principles of electronic image
recording; studio and field
camera operation; studio and
field location lighting practice.

7600:466/566 Audio and Video Editing 3 credits.
Prerequisites: 7600:280.
Theory and practice of editing
audio and video for broadcast
and corporate applications.

7600:467/567 Directing Video Productions 3 credits.
Prerequisite: 7600:280 and
permission. Script analysis,
casting, principles of
directing, directing non-
professional talent.
Laboratory exercises.

7600:492/592 Corporate Video Practicum. 2-6 credits.
repeatable to 6 hours.
Prerequisites: Permission.

Practical applications of writing, directing, management, recording, and editing skills to problems in business, education, and health services. Lab fee.

FAA-89-19 Home Economics and Family Ecology - Center for Family Studies

**New Program - Interdisciplinary Graduate Certificate
in Home-Based Intervention Therapy**

Requirements:

This certificate program in Home-based Intervention Therapy requires a minimum of 18 graduate credits dependent upon previous educational background. All students must complete the 9 credit hours of core coursework, plus 9 credit hours of electives. They will select one elective course from 3 different disciplines, to include courses from their own disciplines. The program has been designed to serve the practicing or prospective home-based intervention therapist.

Admission:

All applicants to the program should be presently enrolled in or already have earned a master's degree (at minimum) in the behavioral sciences, such as psychology, sociology, counseling, marital and family therapy, social work, or child and family development. Students must receive permission from their academic department as well as admission from the Center for Family Studies to participate in this certificate program. Since the educational preparation prior to entry to this program will be quite diverse, the selection of courses within the certificate will vary among the participants. IN order to be eligible for the certificate students are required to complete 9 credit hours from their discipline in the areas of systems, developmental and therapeutic theory. In the case where a discipline does not offer a course in this area they may substitute a course from another discipline. In addition students will complete a minimum of 9 credit hours of electives.

Program

Minimum: 18 Graduate credit hours must be successfully completed in the following areas as outlined below.

Core Courses

Students must successfully complete 1820:603, 604 and the 9 credits of eligibility courses prior to taking 1820:605.

1820:603	Home-based Intervention Theory	3 credits.
1820:604	Home-based Intervention Techniques & Practice	3 credits.

1820:605	Home-based Intervention Internship	3 credits.
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Eligibility Courses

Students must have completed at least 9 credit hours of coursework in theoretical frameworks from their discipline or related areas as follows: A. Systems Theory B. Developmental Theory C. Therapeutic Theory.

Theoretical Frameworks

- | | | |
|----|----------------------|----------------------------------------------------|
| A. | Systems Theory | |
| | 5600:643 | Theories and Philosophy of Counseling |
| | 5600:655 | Marriage and Family Therapy: Theory and Techniques |
| | 7400:607 | Family Dynamics |
| | 3850:620 | General Systems Theory |
| B. | Developmental Theory | |
| | 7400:602 | Family in Life Span Perspective |
| | 7400:605 | Developmental Parent-Child Interactions |
| | 7400:610 | Child Development theories |
| | 3850:512 | Socialization: Child to Adult |
| C. | Therapeutic Theory | |
| | 5600:669 | Systems Theory in Family Therapy |
| | 5600:667 | Marital Therapy |
| | 5600:651 | Techniques in Counseling |
| | 7750:553 | Social Work with Families |

Elective Courses

Students may select one course from three different disciplines as listed below to fulfill their elective requirement with approval from their advisor and director of the certificate program.

Specific Skill Areas
Counseling

5600:550	Counseling Problems related to Life/Death	3 credits.
5600:620	Multi-cultural Counseling	1-4 credits.
5600:620	Substance Abuse	1-4 credits.
5600:620	Human Sexuality	1-4 credits.

Home Economics and Family Ecology

7400:546	Culture, Ethnicity and the Family	3 credits.
7400:596	Parenting Skills	3 credits.
7400:540	Family Crisis	3 credits.
7400:590	Family and Divorce	2 credits.
7400:506	Family Resource Management	3 credits.

	7400:501	Family Life Patterns in the Economically Deprived Homes	2 credits.
	7400:542	Human Sexuality	3 credits.
	7400:504	Adolescence in the Family Context	3 credits.
	7400:675	Conceptual Frameworks in Family Ecology	3 credits.
Sociology			
	3850:753	Family and Health (Special Topics)	1-3 credits.
	3850:688	Human Ecology	3 credits.
	3850:550	Sociology of Mental Health	3 credits.
Psychology			
	3750:530	Psychological Disorders of Children	4 credits.
	3750:704	Theories of Personality	3 credits.
Social Work			
	7750:4551	Social Work and Child Welfare	3 credits.
	7750:554	Social Work in Juvenile Justice	3 credits.
	7750:552	Social Work and Mental Health	3 credits.
	7750:510	Minority Issues in Social Work Practice	3 credits.
Nursing			
	8200:622	Family Health Nursing I	3 credits.
Multicultural Education			
	5630:582	Characteristics of Culturally Different Youth	3 credits.
Special Education			
	5610:540	Developmental Characteristics of Exceptional Individuals	3 credits.
	5610:546	Developmental Characteristics of Behaviorally Disordered Individuals	3 credits.
	5610:560	Working with Parents of MSPR Individuals	3 credits.
	5610:604	Education and Management Strategies for Parents of Exceptional Individuals	3 credits.
Add			
	1820:603	Home-based Intervention Theory	3 credits.
		Prerequisite: Admission to	

Certificate Program for Home-based Intervention. Overview of home-based, intervention. Overview of home-based, intervention to include philosophy and description of this programming as well as assessment of family, their home and community environment.

- 1820:604 Home-based Intervention Techniques and Practice 3 credits.
Prerequisite: Successful completion of 1820:603.
Provides intervention techniques and skill areas required for home-based interventions and learning opportunities for matching techniques with specific family problems.
- 1820:605 Home-based Intervention Internship 3-5 credits.
Prerequisite: Successful completion of 1820:605.
In-depth field experience in Home-based Intervention Program in the community.

FAA-89-42 School of Art

Change in Degree Requirements

Bachelor of Arts in Studio

General Studies and the completion of a second year of a foreign language -- 53 credits. TO:

General Studies and the second year of a foreign language or the following courses in American Sign Language 53 credits.

- | | | |
|----------|------------------------------------------------|------------|
| 7700:271 | Language of Signs I | 3 credits. |
| 2210:104 | Sign Language, Gesture and Mime | 3 credits. |
| 7700:100 | Manual Communication I | 5 credits. |
| 7700:120 | Introduction to Audiology/Aural Rehabilitation | 3 credits. |

UC-89-01 Honors Program**New Program - BS/MD Honors Track**

The University of Akron's Honors Program has been designed to recognize and support highly motivated and achievement-oriented students in any major program. Participants are eligible for substantial honors scholarships. Honors students complete all requirements for a departmental or divisional major and attend interdisciplinary colloquia in the humanities, social science, and natural sciences. These colloquia examine the interrelations of academic studies while exploring significant contemporary issues. During the senior year, all honors students write a senior honors thesis that focuses on a topic of interest in the major area of study. Study abroad or field experience may count as part of the project. BS/MD students are eligible for the Honors Program.

Students accepted into the NEOUCOM BS/MD program are also eligible to enroll in the University Honors Program. This opportunity will encourage these capable students to broaden their intellectual horizons, to strive for academic excellence, and to develop respect and appreciation for superior intellectual achievement.

The requirements for the BS/MD program have been adapted to meet the intent and spirit of the Honors Program while preserving the special nature of this pre-medical curriculum. The BS/MD program leads to the Bachelor of Science with a divisional major in the Natural Sciences. All undergraduate requirements for this program are listed below.

The BS/MD Liaison Officer will serve as the Honors Preceptor for the BS/MD students. Other faculty will become involved as each student plans the Honors Project. Requirements for retention in the Honors Program remain the same.

Group Requirements:

Group I: 15 hours

Required: Seminar:1880:310 Humanities in Medical
Education 3 credits
remaining from among the following:

Classics	3200
Greek	3210
Latin	3220
English	3300
History	3400
Philosophy	3600
Western Cultural Traditions	1100:320:321
Eastern Civilizations	1100:330:335

Total Hours 15

Group II: 13 Hours

Required:

1100:105	Introduction to Public Speaking	3 credits.	
1100:106	Effective Oral Communication		
1100:111	English Composition-Honors	4 credits.	
1100:112	English Composition-Honors		OR:
	Other approved writing class	3-4 credits.	

remaining credits from among the following:

Modern Languages	3520-3480 - 300 level or above
Art	7100
Music	7500
Applied Music	7520
Theatre Arts and Dance	7800

Total Hours 13

Group III: 9 hours

Required:

3750:100	Introduction to Psychology	3 credits
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remaining credits from among the following:

Economics	3250	
Geography	3350	
Political Science	3700	
Psychology	3750	
Sociology	3850	
Anthropology	3870	

6 credits.

Total Hours 9

Group IV: 68 hours (includes requirement for Natural Sciences Divisional major).

recommended: Mathematics

3450:211	Calculus for Life Sciences	3 credits.
3450:212	Calculus for Life Sciences	3 credits.
3470:261	Introduction to Statistics	2 credits.
3470:253	Hypothesis Testing	1 credit.
3470:255	Regression	1 credit.

Biology

3100:111	Principles of Biology	4 credits.
3100:112	Principles of Biology	4 credits.
3100:211	Genetics	3 credits.
3100:466	Developmental Anatomy	4 credits.
3100:467	Developmental Anatomy	4 credits.
3100:365	Histology	3 credits.
(Plus 5 additional Biology credits as electives-may be transferred from NEOUCOM).		

Chemistry

3150:132	Principles of Chemistry I	4 credits.
3150:133	Principles of Chemistry 2	3 credits.
3150:134	Qualitative Analysis	2 credits.
3150:263	Organic Chemistry I	3 credits.
3150:264	Organic Chemistry 2	3 credits.
3150:265	Organic Chemistry Lab	2 credits.
3150:401	Biochemistry 1	3 credits.
3150:402	Biochemistry 2	3 credits.

Physics

3650:261	Physics for Life Sciences	4 credits.
3650:262	Physics for Life Sciences	4 credits.

Scientific BS/MD Program Requirements:

2780:290	CPR	2 credits.
3100:190	Health Care Delivery Systems	1 credit.
3100:191	Health Care Delivery Systems	1 credit.
3100:290	Health Care Delivery Systems	1 credit.
3100:291	Health Care Delivery Systems	1 credit.
1880:201	Medical Seminar and Practicum	3 credits.

Additional Honors Requirements:**Colloquia:**

1870:250	Honors Colloquim-- Humanities	2 credits.
1870:360	Honors Colloquim-- Social Sciences	2 credits.

Honors Project: 3 credits

A major research paper will be required. A University of Akron faculty member shall direct the paper. The work must be completed prior to the completion of the undergraduate degree. In any of the following options, each student would be expected to file the formal paper with the department of choice and the Honors Council in compliance with the procedures established by the Honors Council.

A student may complete a research laboratory project in Biology during the first summer of medical school. A formal paper, directed by a University of Akron faculty member, will be submitted as partial completion of the honors requirements. OR:

A student may complete a major paper as part of the Human Values in Medicine curriculum at NEOUCOM and transfer up to three hours of credit back to The University of Akron. A University of Akron faculty member should act as co-director of the project. OR:

A student may register for three hours of regular honors project hours in any department currently offering such credit. The student would be expected to complete a major research paper which in some way relates medicine to the discipline of the department.

WC-89-02

Revise Business Management Technology - Data Management Option - Data Management Certificate as follows:

Add	2440:255	Introduction to Data Communications Prerequisite: 2440:120. Introduction to data and voice communications including applications, technical details, and managerial aspects. Includes hands-on use of modems, facsimile machines, scanners, and local area networks.	2 credits.
	2440:267	4GL for Micros:dBASEIII+	3 credits.
Drop	2440:250	BASIC Programming Applications in Business	5 credits.

WC-89-03

New Program - Associate of Technical Studies

The Associate of Technical Studies (ATS) is awarded for successful completion of an individually planned technical education program designed to respond to needs for specialized technical education not currently available in the formal degree programs of the College. As with all degree programs, however, the Associate of Technical Studies must have an area of concentration of at least 30 semester credits clearly identifiable with a career objective. This area of concentration can result from 1) a coherent combination of technical courses selectively drawn from one or more existing technical programs of study; or 2) from courses completed or training received at other postsecondary institutions or through other educational enterprises adjudged as college creditable by the college.

While intended to allow for the combining of various courses within Wayne college's existing associate-degree programs, the ATS may also be interdisciplinary, permitting interested individuals to combine courses from various University disciplines in order to meet individual educational needs. It also can be used to create an integrated program of study combining credits earned at The University of Akron or other postsecondary institutions with training received through other educational enterprises adjudged as college level by the college's faculty and awardable credit by the University toward the Associate of Technical Studies.

The Associate of Technical Studies will be made available to those students whose educational objectives and interest cannot be met through available formal associate degree programs. The application/admission procedures shall be as follows:

1. Individuals seeking the Associate of Technical Studies must complete a formal ATS application. The application will explain the purpose of the degree and identify completion requirements.
2. Within two weeks of the receipt of the ATS application, the Associate Dean will make an initial assessment of the quality of any transfer work, using the guidelines set by the ATS Committee, and will assist the applicant to select appropriate areas of study.
3. After review by the Associate Dean, the ATS application will be submitted for review and approval within 30 days by the faculty most closely associated with the proposed area of study.

4. Granted faculty approval, the application will be forwarded for review and approval within two weeks by the ATS Committee.
5. Upon approval by the ATS Committee, the application will be reviewed and approved within two weeks by the Dean of Wayne College.

Graduation Requirements:

The following shall be the graduation requirements for the Associate of Technical Studies:

1. Completion of an ATS application specifying course work within at least one but no more than three major areas of study and reflecting a reasonable array of courses within each area of study.
2. Approval of the ATS application by the Associate Dean, relevant faculty, ATS Committee, and the Dean of Wayne College.
3. Degree application of only that transfer course completed with a "C" (2.0) grade or better.
4. Completion of at least 14 credits of "general education" courses and 14 credits of "basic" courses, as required by the OBOR.
5. Completion of at least one-half of the technical credits at The University of Akron, equally divided among the selected areas of study.
6. Completion of a minimum of 64 credits with a grade point average of 2.0.
7. Completion of all other University graduation requirements.

Administrative Arrangements

As a college program, the ATS will be administered through the Office of the Dean, and applications for the ATS degree shall be subject to a four-stage approval process: Associate Dean, appropriate college faculty, ATS Committee, and the Dean of the College, in that order.

1. The Associate Dean will coordinate the ATS program. Specifically, the AD will:
 - a. assist individuals with the preparation of ATS applications, including initial assessments of the quality of training received elsewhere, suggestions about appropriate courses for inclusion in degree

- programs, and consultation with appropriate College and University faculty regarding the quality, suitability, and coherence of training previously received and proposed.
 - b. approve completed ATS applications and guide each proposal through the approval process in a timely fashion.
 - c. chair the ATS Committee.
 - d. advise students enrolled in approved ATS programs, conferring with students each term to review student performance, program progress, and, when necessary, program modifications.
 - e. serve as the formal liaison between faculty and external agency personnel in order to develop appropriate uses of the ATS program.
 - f. gather relevant data to assess ATS program effectiveness.
2. Faculty most closely associated with the technical training requested by an applicant will review his/her application in order to assess the academic quality and coherence of the program submitted. Approval of the application by these faculty will be required for each ATS degree.
 3. The ATS Committee shall be a standing committee composed of four college faculty and the Associate Dean. The faculty shall be appointed by the Dean and serve rotating terms. The responsibilities of the committee shall be to:
 - a. establish guidelines for the awarding of credit.
 - b. approve the admission of candidates.
 - c. approve programs of study and modifications thereof.
 - d. approve the awarding of credit.
 - e. evaluate ATS program outcomes.
 4. The Dean of Wayne College must also approve any ATS application.

WC-89-04

Revise program - Microprocessor Service Technology

Add	2440:151	PC DOS Fundamentals	1 credit.
Drop	2600:165	Survey of Programming Languages	2 credits.

Recommended electives:

2440:131	Introduction to Programming	2 credits.
3460:126	Introduction to BASIC Programming	2 credits.

Total Program Credit Hours Required from 66 to 67

Total Required Credit Hours from 66 to 65

Total Elective Credit Hours from 0 to 2

WC-89-05

Revise Program - Business Management Technology - Accounting Option

Change in Degree Requirements

Add	2440:120-701/702	Computer and Software Fundamentals	2 credits.
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Drop	2440:130	BASIC Programming for Business	3 credits.
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Drop	2440:245	Data Base Management for Microcomputers	3 credits.
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Drop choice between:

2020:240	Human Relations	3 credits.
2020:251	Work Relationships	3 credits.

Required:

2020:251	Work Relationships	3 credits.
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Accounting Option - Distribution Requirements

General

1100:---	Physical Education	1 credit.
1100:106	Effective Oral Communication	3 credits.
1100:111	English Composition	4 credits.
2020:247	Survey of Basic Economics	3 credits.
2020:251	Work Relationships	3 credits.
2020:260	The Arts and Human Experience	3 credits.
	Total	17

Basic

2420:104	Introduction to Business	3 credits.
2420:171	Business Calculations	4 credits.
2440:120	Computer and Software Fundamentals	3 credits.

2540:119	Business English	3 credits.
2540:263	Business Communications	3 credits.
	total	16

Technical

2420:103	The Role of Supervisions in Management	3 credits.
2420:211	Basic Accounting I	3 credits.
2420:212	Basic Accounting II	3 credits.
2420:213	Basic Accounting III	3 credits.
2420:214	Essentials of Intermediate Accounting I	3 credits.
2420:216	Survey of Cost Accounting	3 credits.
2420:217	Survey of Taxation	3 credits.
2420:243	Survey in Finance	3 credits.
2420:280	Essentials of Law	3 credits.
2440:125	Lotus 1-2-3	2 credits.
Electives		4 credits

total	66
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Recommended Electives:

2440:130	BASIC Programming for Business	3 credits.
*2440:245	Introduction to DBASE III+/IV	3 credits.
2540:289	Career Development for Business Professionals	3 credits.

*Retitled Course (WC-89-01)

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