

**UNIVERSITY OF AKRON**



# OHIO BOARD OF REGENTS

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## APPLICATION FOR A NEW DEGREE PROGRAM:

### B. S. IN EMERGENCY MANAGEMENT IN THE COMMUNITY AND TECHNICAL COLLEGE OF THE UNIVERSITY OF AKRON

I. Nature of Request

A. Title of New Degree Program: Emergency Management

2+2 Baccalaureate Degree program

B. Location of the proposed program

Main Campus, The University of Akron, Akron, Ohio

II. Objectives for the Proposed Program

A. The general and specific educational objectives of the program:

1. To prepare students for career employment in emergency management, fire protection, law enforcement, and environmental health and safety in both the public and private industrial sectors. Students will also be prepared for careers in non-profit organizations which activate response in disasters such as the American Red Cross and Salvation Army.

2. To provide quality education in the advances made in the emerging field of emergency management.

3. To ensure students are knowledgeable of the cutting edge changes in policies and procedures related to the preparedness for, response to, and mitigation of disasters.

**B. The Bachelor of Science Degree will help achieve the goals and objectives of The university of Akron's role and mission.**

The University of Akron is a Metropolitan University, serving the greater Akron area. The program in Emergency Management Technology is expected to draw full and part time, in-service students from the broader metropolitan area as well as from around the State of Ohio. The University of Akron offers comprehensive programs of instruction from associate through doctoral levels. This program would provide a bridge and serve an area not currently available. Students pursuing an associate degree in Fire Protection currently have only one option for a Bachelors degree in a 2+2 format Technical Education, which does not serve the professional development and future employment needs of the students. The Bachelors's in Emergency Management would provide a relevant degree that leads to employment and promotion in a variety of areas: local and state government, industry and business, and non-profit organizations.

This program directly addresses three of the five Strategic Directions of the University's Strategic Directions:

*I. Attract and retain a higher quality and more diverse student body.* A number of the entering students will be older than the traditional mix. They are more mature students who value education and are generally of a high quality. This is an ideal degree for graduates from a number of regional two-year colleges.

*III. Increase student retention and progress toward completion of their academic program.* Currently many graduates of Associate Degree programs who intend to pursue four year degrees do not continue their studies because of their interest in specialized area of employment. The University could better retain these students through a professional program providing knowledge and skills necessary in a growing area of employment.

*V. Cultivate scholarly and creative activities that are recognized regionally, nationally, and internationally.* Currently, faculty at the University of Akron have national and international recognition in emergency management. In addition, there are currently only two programs in the nation which offer this degree. This is an opportunity for the university to develop its resources and provide a program for students which would gain international as well as national recognition.

**C. Describe any unique characteristics or resources which make it particularly appropriate for your institution to offer the proposed program.**

Two of the faculty at The University of Akron, Dr. David H. Hoover and Dr. Nancy K. Grant, are currently involved in a national initiative in partnership with the Federal Emergency Management Agency to facilitate the development of standard national curriculum for higher education. These are the only two faculty in the State of Ohio who are involved in this project.

Drs. Hoover and Grant have published in the field of Emergency Management.

The Training Center for Fire and Hazardous Materials at The University of Akron has been a partner in emergency management disaster exercises with several county emergency management agencies including Summit, Stark, Medina, and Portage. The training center also offers non-academic emergency response training courses which will generate interest in the degree program among participants.

Dr. Siebert who will teach in the planning and Geographic Information Systems (GIS) courses has worked on GIS projects with FEMA in the past.

The Department of Geography and Planning which will offer some of the core courses in the program has national and international recognition, especially in the areas of urbanization and application of GIS technology, both of which have high relevance to the field of Emergency Management.

Drs. Hoover, Grant, and Hauser have cooperated with the State of Ohio Emergency Management Agency in sponsoring a statewide symposium which is being used as the foundation for a federally mandated state preparedness initiative.

The 2 year Fire Protection Technology Program which will serve as the home for the B.S. in Emergency Management has been recognized by Community College Weekly as the second highest ranked four year institution for Fire Protection Degrees in the United States. (See attached.)

**III. Rationale and Need for the Program**

**A. Explain the rationale for this program.**

The field of Emergency Management is continuing to develop rapidly as disasters and major emergencies become more frequent and the response to these emergencies become more complex. In addition, the development of federal and state

legislation affecting emergency planning and preparedness has resulted in a demand for well educated individuals who have employment opportunities not only in all levels of government, but also with business and industry.

Emergency managers generally have an area of technical expertise which is then supplemented with a higher level of more advanced education. The combination of Fire Protection Technology, Fire Science Technology, Criminal Justice Technology, Environmental Safety and Health Technology, and Emergency Management Technology provides the student with the necessary technical background in an area of expertise and upper level education in the emerging field of emergency management which incorporates critical thinking and analytical skills. These analytical skills are enhanced by the combination of courses from arts and sciences which are relevant to the profession of emergency management.

The University of Akron has faculty who are nationally recognized in the field of emergency management as well as fire protection and hazardous materials. The addition of new courses, which can be taught by current faculty, and incorporation of existing social science courses would allow the University to offer a degree which is in great demand and not available locally, elsewhere in Ohio, or even in the region.

The 1996 University of Akron University Review Committee (URC) report on the Division of Public Service Technology recognized Fire Protection Technology as an outstanding program and recommended the creation of 2+2 programs to offer graduates the opportunity to pursue a relevant four year degree.

This degree has support from the Associate Director of the Federal Emergency Management Agency (FEMA), Washington, D.C. and from the Ohio Emergency Management Agency as well as local emergency management officials.

**B. The benefits for students, the institution, and the region and state, of initiating this program.**

*Students* will benefit from this program as they will be able to pursue a bachelor's degree which is directly relevant to their area of employment in a technical field which is emerging as a new profession. Students will be able to meet one of the major criteria for achieving certification as a "Certified Emergency Manager" under the auspices of the International Association of Emergency Managers. Not only will traditional students matriculating from a two-year program be more employable upon graduation with the B.S. degree, returning students will be better qualified to achieve promotions in their current areas of employment.

*The institution*, The University of Akron, will benefit as being among the first

institutions in the United States to offer a four year degree in Emergency Management. The University will be able to expand articulation agreements with numerous community colleges in the state which offer associate degree programs in fire protection, fire science, law enforcement, criminal justice, environmental safety, environmental health, hospitality management, tourism, and other related programs which are relevant to disaster preparedness and response. The University will be able to serve the needs of in-service emergency response and management personnel in northeast Ohio.

*The northeast Ohio region* will benefit as the increased professionalism of emergency preparedness and response serves as an economic development asset when attempting to attract new businesses or retain existing businesses and industry in an area. The increased safety is an incentive for industries to locate in a region. The presence of graduates in this field is expected to increase the level of comprehensive preparedness to meet and mitigation to ameliorate the impact of natural and technological disasters.

*The State of Ohio* can benefit from the B.S. in Emergency Management as it will be one of the first states to achieve the goal of the Higher Education Project of the Federal Emergency Management Agency which is to encourage the establishment of one bachelors degree in Emergency Management in each state. Thus, Ohio will receive national recognition for this new degree. Additionally, this degree is well suited for distance learning and initial discussion of how to implement this is already underway. Business and industry in the State of Ohio will have a cadre of qualified potential employees to assist in compliance with federal, state and professional safety standards.

**C. If applicable, state the specific local, state or national needs for individuals trained by the proposed program. If applicable, describe job opportunities that are available to persons who complete the program. Provide supporting data.**

Persons with emergency management degrees are increasingly in demand in private industry as well as in public sector jobs. This is due to the increased recognition of the value of risk management and business continuity as well as to the increased emphasis on mitigation of and preparedness for emergencies and disasters. Position openings are regularly posted in the "Natural Hazards Observer" and by FEMA on their respective WEB-sites. Increasingly, police and fire departments are identifying specific positions for individuals with expertise in emergency management due to the increased need for specialized interagency cooperation and technical emergency management knowledge.

**D. Certification requirements for which this program will prepare students.**

The Bachelor's in Emergency Management will meet the education requirement for the Certified Emergency Manager. In addition, the Training Center for Fire and Hazardous Materials will enable students to simultaneously achieve the 100 classroom hours in emergency management and 100 classroom hours in general management.

**E. Describe and document any needs, other than employment opportunity, which will be met by the proposed program,**

The Ohio Revised Code 5502.21 Emergency Management General Provisions Sections 26, 27-271 mandate that each County have an emergency response plan for natural and technological hazards and that each county hire an Emergency Manager. The B.S. in Emergency Management will include instruction concerning disaster preparedness and planning. This will increase the knowledge among individuals who are involved in the planning as well as awareness of the mandates.

Ohio Administrative Orders 4501.33 -01 supports ORC 5502 mandates for planning and for having a professional emergency manager in each county.

The Joint County and State Education Committee comprised of representatives from the Ohio Emergency Management Agency and representatives of the Ohio County Emergency Management Directors is currently considering upgrading the level of education required for the position of County Emergency Manager. This degree would provide the basis for facilitating the increased professional qualifications.

Ohio Administrative Orders 4501:3-5-01 identify the training mandates for emergency management in each county and 4501:3-6-01 reemphasizes that each jurisdiction must have a written plan. These plans are written in cooperation with local private industry, generally represented by safety personnel or risk managers.

**F. Provide evidence of student interest in the program, as well as projections of enrollment (full-time and part-time) for each of the first five years of the program.**

The students are expected to be 50% full time and 50% part time.

Initially many will be classified as new students as they are, in fact, returning students who received their Associate degree over a year ago. After the first six or seven years, it is expected that these students will be continuing in that they are going

directly from a two-year program to a four year program. A number will be new to the University of Akron, however, as they probably would not pursue a four year degree were this one not offered.

Surveys of students enrolled in required courses in associate degree programs identified as probable sources for new students in the Emergency Management program revealed a strong interest. Telephone surveys with graduates also resulted in strong support. Some graduates even sent letters encouraging the development of the new degree program.

### Anticipated Numbers of Entering Students

	Entering Students (Junior level)	Continuing Students (Senior Level)
1998 - 1999 Spring	20	10
1999 - 2000 Fall	64	05
1999 - 2000 Spring	10	60
2000 - 2001 Fall	30	59
2000 - 2001 Spring	10	42
2001 - 2002 Fall	30	45
2001 - 2002 Spring	12	50
2002 - 2003 Fall	34	55
2003 - 2004 Spring	15	60
2004 - 2005 Fall	27	65
2005 - 2006 Spring	12	70
<b>Total Entering Students</b>	<b>264</b>	<b>521</b>

**G. List academic programs similar to the one proposed that are offered in both public and independent institutions within a fifty mile radius of the proposed instructional site.**

There are no other programs available within a fifty mile radius. In fact, there are no other Emergency Management programs available within the State of Ohio.

**H. Explain how these programs differ from the one proposed.**

Not Applicable.

#### **IV. Academic Planning**

**A. Provide a brief description of the institutional planning process that resulted in the initiation of the proposed program. Indicate the relative priority level of this program among institutional purposes, and explain how this has been established.**

The planning process began at the department level where the concept of the 2 + 2 Bachelor's degree in Emergency Management was adopted as part of the Department's Strategic Plan. This goal was also identified by the Community and Technical College as one of its top three goals during the committee meetings and deliberations which set priorities for the college. The goal was subsequently accepted by the Faculty Senate and Provost as part of the university strategic plan following review by Council of Dean's and institutional planning committees.

Additionally, the 1996 University of Akron University Review Committee (URC) which was assigned to evaluate the Division of Public Service Technology recognized Fire Protection Technology as an outstanding program and recommended the creation of 2+2 programs to offer graduates the opportunity to pursue a relevant four year degree.

**B. Describe how and when institutional Clearances or approvals for the new program were achieved.**

The proposal was developed and presented to the Department of Public Service Technology for approval in Fall 1997. It received unanimous approval and was forwarded to the Academic Affairs Committee of the Community and Technical College for review. The proposed Emergency Management degree received unanimous approval and strong endorsement from the Community and Technical College Faculty early Spring 1998. (The proposal was also presented to the faculty Council of the Buchtel College of Arts and Sciences for information purposes as this is a cooperative program which utilizes existing resources in that college. Buchtel College Council endorsed the proposal.)

The proposal was then forwarded to the University Faculty Senate which first referred it to its Academic Planning and Curriculum Committee (APPC). The AP recommended approval with no comments or corrections. Faculty Senate approved the proposal with no dissenting votes during its April 1998 meeting. The proposal was subsequently approved by the Provost. The President of the University of Akron submitted the new program to the Board of Trustees which approved the establishment of a Bachelor of Science in Emergency Management and Emergency Management Certificate at its Board on August 19, 1998. (See attached Presidential Memo.)

**C. Provide information on the use of consultants or advisory committees in development of the proposed program (append copies of reports from such consultants or advisory committees),**

The curriculum and proposal concepts were presented to a select group of administrators representing the Ohio Emergency Management Agency and the Ohio County Emergency Management Directors Organization. This included: Rich Roman, Chief of Operations and Training, Ohio Emergency Management Agency, James Williams, Chief of Staff, Ohio Emergency Management Agency, J. R. Thomas, President of the Ohio County Emergency Management Directors and Emergency Management Director of Franklin County, Charles Adams, Former President of the Ohio County Emergency Management Directors and Emergency Management Director of Medina County, and Annette Petranic Emergency Management Director of Summit County.

In addition, meetings were conducted at a national level with Dr. Wayne Blanchard, Director of the Higher Education Project for the Federal Emergency Management Agency, and with Dr. Rick Sylves, University of Delaware and Dr. William Waugh, Georgia State University, each of whom has conducted research, publication, and university teaching in the area of emergency management. Their comments were quite favorable and we utilized some of their comments to better describe the concept of the program.

Formal minutes were not kept at these meetings, they were working sessions and several suggestions were included in the final proposal.

**V. Academic Control**

**A. Describe administrative arrangements for the program (department, college, and/or school involved).**

The B.S. in Emergency Management will be directly administered by Dr. David H. Hoover in conjunction with the Fire Protection Technology program to maintain the 2+2 focus. These programs will both be housed in the Department of Public Services Technology, which is currently chaired by Laura Johnson. The Department of Public Service Technology is housed in the Community and Technical College headed by Dr. David Sam, which is a college at The University of Akron, currently under the leadership of Dr. Marion Ruebel.

**B. Indicate any cooperative arrangements with other institutions and organizations that will be used to offer this program. Specify the exact nature of such agreements and attach any formal statements of agreement**

that have been developed.

There are no current cooperative arrangements at this time. However, initial discussions have begun with the State of Ohio Emergency Management Agency to facilitate course offerings for their personnel. Among other things, the possibility of distance learning utilizing existing teleconferencing classrooms in Columbus are being explored.

**C. Specify the articulation arrangements with other institutions that will be in effect for the program. Attach appropriate documentation for such arrangements, if any.**

The University of Akron has a number of articulation agreements in place for other programs. (Copies of three are attached.) These will be used as models since once approval has been granted, the Program Director intends to establish further, degree specific articulation agreements with community colleges in Ohio which have fire protection, fire science, law enforcement, criminal justice, environmental health and safety or business/industrial health and safety programs. Initial contact has been made with Stark State College of Technology.

## **VI. Curriculum**

**A. Describe the program, including each option and concentration, as it would appear in a catalog,**

### **Bachelor of Science in Emergency Management**

This program prepares students with a background in fire protection technology, criminal justice technology, and environmental health and safety technology to enter and advance in the field of emergency management through the acquisition of specialized knowledge of emergency management, planning, natural disasters, and mitigation.

- ▶ Completion of an Associate of Applied Science degree in Fire Protection Technology or Criminal Justice Technology in the Community and Technical College or the Associate of Applied Science in Environmental Health and Safety Technology at the Wayne Campus.

Or

Completion of any fire science or related degree programs at other two year colleges in Ohio

Or

Students who have not completed a two year program and who wish to pursue this degree must complete the following courses with a GPA of 3.0 prior to admission to the program:

2230:102	Fire Safety in Building Design Construction
2230:202	Fire Suppression and Emergency Response Methods
2230:250	Hazardous Materials

- ▶ Completion of General Education Requirements
- ▶ Completion of the following required courses (24 credit hours):

3350:310	Physical and Environmental Geography	3cr.
3350:405	Geographic Information Systems	3cr.
3350:433	Introduction to Planning	3cr.
3850:365	ST: Disasters and Society	3cr.
2230:305	Principles of Emergency Management	3cr.
2230:350	Emergency Response Preparedness & Planning	3cr.
2230:405	Hazard Prevention and Mitigation	3cr.
2230:410	Disaster Relief and Recovery	3cr.
2230:450	Emergency Management Research Methods and Applications	3cr.

The following are recommended electives (Completion of 21 credit hours required):

2230:495	Internship: Emergency Management	1-4cr.
3350:305	Maps and Map Reading	3cr.
3350:314	Climatology	3cr.
3350:320	Economic Geography	3cr.
3350:340	Cartography	3cr.
3350:428	Industrial and Commercial Site Location	3cr.
3350:447	Introduction to Remote Sensing	3cr.
3350:444	Applications in Cartography & Geographic Info. Sys.	3cr.
3250:385	Economics of Natural Resources & the Environment	3cr.
3370:350	Structural Geology	3cr.
3370:421	Coastal Geology	3cr.
3400:471	American Environmental History	3cr.

3700:370	Public Administration Concepts and Practices	4cr.
3700:412	Global Environment Politics	3cr.
3850:428	The Victim In Society	3cr.
7600:303	Public Relations Writing	3cr.
7600:344	Group Decision Making	3cr.
3850:365	ST: Disasters and Society	3cr.

(A formal proposal to convert this to a regular course is being reviewed.)

**B. List the courses (title, number, semester/quarter credit hours, and catalog description) that would constitute the requirements and other components of the proposed program. Indicate which courses are currently offered and which will be new (indicate new courses with an X.)**

▶ Required courses (24 credit hours):

- |   |          |   |      |
|---|----------|---|------|
|   | 3350:310 | Physical and Environmental Geography  | 3cr. |
|   |          | Landforms, weather and climate, soils and vegetation and natural hazards. Nature and distribution of these environmental elements and their significance to society. Laboratory.  |      |
|   | 3350:405 | Geographic Information Systems  | 3cr. |
|   |          | Introduction to the principles and concepts underlying geographic information systems (GIS) and their application in professional practice and academic research. Laboratory.   |      |
|   | 3350:433 | Introduction to Planning  | 3cr. |
|   |          | Introduction to the history, theories and forms of urban planning.  |      |
| X | 2230:305 | Principles of Emergency Management  | 3cr. |
|   |          | An overview of the history and philosophy, terms and concepts, and local, state and federal roles in emergency management. Emphasizes man-made, natural and technological hazards.  |      |
| X | 2230:350 | Emergency Response Preparedness & Planning  | 3cr  |
|   |          | Planning the response to a potential emergency or disaster is a key component in Emergency Management. It is required by federal and state law. The methods of emergency response planning have been developed and refined over the past ten years. This course is an integral part of any emergency management curriculum and necessary for individuals who intend to work in the field of emergency management or safety. |      |

- X 2230:405 Hazard Prevention and Mitigation 3cr.  
Examines various mitigation programs and ways in which communities can increase level of prevention and decrease their risk and impact of disasters and major emergencies.
- X 2230:410 Disaster Relief and Recovery 3cr.  
Foundation for disaster relief, recovery planning, stages of recovery, resources used, formation of public/private policy and the process of prioritizing various business, government and citizen needs for recovery action and resource allocation.
- X 2230:450 Emergency Management Research Methods and Applications 3cr.  
Introduction to current research conducted in the field of emergency management and various methods appropriate for analyzing current topics in the field.

**Recommended electives (Completion of 21 credit hours required):**

- X 2230:495 Internship: Emergency Management 1-4cr.  
Prerequisites: 30 hours in program and permission from program director.  
Supervised work experience in emergency management to increase student understanding of emergency management and disaster response.
- 3350:305 Maps and Map Reading 3cr.  
Introduction to the Use and interpretation of maps. Study of basic map types, elements, symbolism. And historical and cultural context of maps.
- 3350:314 Climatology 3cr.  
Prerequisite: 310 or permission. Analysis and classification of climates, with emphasis on regional distribution. Basic techniques in handling climate data.
- 3350:320 Economic Geography 3cr.  
Geographical basis for production, exchange, consumption of goods. Effect of economic patterns on culture and politics.
- 3350:340 Cartography 3cr.  
Prerequisite: 305 or 2940:210 or permission. Use of graphic/cartographic principles and techniques as a means of presenting geographical information on maps and producing maps. Laboratory.

3350:428 Industrial and Commercial Site Location 3cr.  
Prerequisite: 320 or permission. Relationship between land, resources, population, transportation and industrial and commercial location processes.

3350:447 Introduction to Remote Sensing 3cr.  
Prerequisite: 305 or permission. Application of analytic and presentation techniques from cartography and geographic information systems to practical problems in geography and planning. Laboratory.

3350:444 Applications in Cartography and GIS 3cr.  
Prerequisite: 340 and 405 or permission. Applications of analytic and presentation techniques from cartography and geographic information systems to practical problems in geography and planning. Laboratory.

3250:385 Economics of Natural Resources and the Environment 3cr.  
Prerequisite: 100 or 200 or 24 or permission. Introduction to economic analysis of use of natural resources and economics of environment. Problems of water and air pollution, natural environments, natural resource scarcity, conservation, economic growth.

3370:350 Structural Geology 3cr.  
Prerequisite: 101 or permission. Origins and characteristics of folds, faults, joints and rock cleavage. Structural features of sedimentary, igneous and metamorphic rocks. Laboratory.

3370:421 Coastal Geology 3cr.  
Prerequisite: 010,324 or permission of instructor. Study of the origins and evolution of coasts and coastal deposits with particular attention paid to the interaction of waves and currents with sediment and the development of associated sedimentary features.

3400:471 American Environmental History 3cr.  
Utilization, conservation of natural resources from beginnings of American society to present; combination of economic technological history of extensive treatment of public policy, environmental issues.

3700:370 Public Administration Concepts and Practices 4cr.  
Examines current administrative theories and their application in public bureaucracies. Emphasis is placed on practices to improve the quality of public sector administration.

3700:412 Global Environment Politics 3cr.  
Prerequisite: 300, 310, or permission of instructor. Examines the general

dimensions of the global environmental challenge, including the roles played by technology and the structure of the world system.

3850:428 The Victim In Society 3cr  
Prerequisite: 100 or permission of instructor. Study of the nature, causes, and consequences of victimization with special focus on crime victimization.

7600:303 Public Relations Writing 3cr.  
Prerequisite: 201, ability to type. Introduction of writing skills required by public relations practitioners emphasizing different approaches for specific public and specific media.

7600:344 Group Decision Making 3cr.  
Study of communication and decision making in small groups. Practice in techniques of group decision-making, introduction to theory of group communication.

3850:365 ST: Disasters and Society 3cr.  
Exploration of classic, traditional, and new emerging theories of collective behavior in disaster. The impact of disaster on society and society's reaction to disaster.

**C. Describe the specific methods that will be used for evaluation of the proposed program following implementation.**

The evaluation approach will be multi-faceted. a) The University Review Committee system is expected to continue and will review the Emergency Management Program as part of the department review in the next cycle, especially since its inception is partly the result of a recommendation made in the last study. b) An advisory committee consisting of individuals with emergency management expertise, both academic and practitioners, will be created simultaneous with program implementation. In addition to ongoing guidance, the committee will be asked to conduct a formal review on a biannual basis. c) Three years following the implementation of the program, a survey of all graduates and current students will be conducted to determine: 1) their current employment status, 2) the relevance of the degree to their employment, 3) the relevance of specific courses, 3) the degree of satisfaction with the program. Department chairs in C&T and associated faculty across campus will be asked to review this survey as well as establish other methods of evaluation of their choosing, e.g. interview faculty, interview students, review curriculum, etc.

**D. Indicate whether your institution intends to seek specialized accreditation from a professional association for this program, and whether additional resources are required to gain accreditation.**

At this time there is no specific accreditation for degrees in Emergency Management, therefore the university does not at this time intend to seek accreditation. However, there is discussion about developing an accreditation system in the future and the program director will keep university administration informed of developments so that the option can be discussed in the future.

## **VII. Staffing Qualifications**

**A. Describe the number and qualifications of full-time faculty to be involved in the program. Provide a list of current faculty (and areas of expertise) who will teach in the program, and brief descriptions of the type of additional faculty needed.**

This Emergency Management program has an interdisciplinary structure and as such is utilizing full time faculty resources from across campus.

The Fire Protection Technology Program where the 2+2 in Emergency Management will be housed, is hiring an additional full time faculty member as recommended in the University Program Review. This individual should be hired by January 1999.

The director of the Fire Protection Technology Program is Dr. David H. Hoover, Associate Professor of Fire Protection Technology, A.A.S., B.S.T.E., M.S.T.E., The University of Akron, Ph.D. Union Institute, 1993. He has gained national and international recognition for his work in emergency management, hazardous materials, and fire protection technology, through his publications as well as numerous professional presentations.

Additionally, Dr. Carole Garrison, Professor of Criminal Justice Technology, B.A. University of Miami, M.P.A. Georgia State University, Ph.D. The Ohio State University, 1979 is a faculty member in the department of Public Service Technology who can contribute to the program, especially in the area of security, role of corrections in disasters, and the impact of disasters on the law enforcement community. As former director of the Women's Studies Program at The University of Akron, she also addresses the impact of emergencies and disasters on women in our society..

Dr. Nancy K. Grant, Professor and Department Chair of Public Administration and Urban Studies, B.A. The University of Dallas, M.A., Ph.D. The University of Texas at Arlington, 1982, will be teaching core courses in the program and has a background

of research and publication in the field of emergency management. Her area of expertise includes federal regulations and policy implementation analysis. She will bring a research focus to the program.

Dr. Annemarie Scarisbrick-Hauser, Associate Adjunct Professor of Political Science, Associate Director of the Institute for Policy Studies and Fellow, Ray Bliss Institute of Applied Politics, B.Ed. National University of Ireland, M.S.Sc. Purdue University, M.A., Ph.D. Sociology, 1990, will be teaching required as well as elective courses. She has research as well as teaching expertise in the area of social behavior in crisis and disaster as well as research methods and statistics.

Faculty in the Department of Geography and Planning in the Buchtel College of Arts and Science regularly teach a number of the required course. These include:

Dr Linda Barrett, Assistant Professor of Geography and Planning, B.A., M.A., Ph.D. Michigan State University, 1995.

Vern Harnapp, Professor of Geography and Planning, B.S.Ed. Concordia Teachers College, M.S.Ed. University of Pennsylvania, Ph.D. University of Kansas, 1972

Richard Klosterman, Professor of Geography and Planning, Professor of Urban Studies, B.S. Purdue University, Ph.D. Cornell University, 1976.

Loren Siebert, Assistant Professor of Geography and Planning, B.A. Western Washington State College, M.A. University of Washington, 1991.

This program is designed to utilize current university faculty resources and expertise.

**B. Provide specific information on the number and qualifications of part-time faculty to be used in the proposed program.**

Part time faculty may be used in two areas of technical expertise: 1) Hazardous Materials- Response, Mitigation, and Compliance and Disaster and 2) Disaster Response and Recovery Coordination. Instructors for these course both have Masters degrees and hold senior level positions in the field, as Hazardous Materials Response Coordinator, and County Emergency Manager, respectively.

## **VIII. Facilities and Support Services**

### **A. Describe facilities and equipment currently in existence at your institution that will be used for the proposed program.**

Classroom facilities currently in existence, especially those in the Polsky Building, will be used for the program. A classroom dedicated to fire protection technology due to the specialized equipment necessary for instruction in that field will be made available a times when it is not scheduled for the fire protection program. In addition, the Fire Protection Lab will be available on a shared basis to enable table top exercises and scenario development.

University computer labs as well as a small fire protection computer lab are available for all students.

### **B. Explain how existing facilities and equipment for the proposed program will impact existing programs.**

By scheduling courses in the fire protection dedicated classroom whenever possible, it is anticipated that the impact of the additional classes will not be significant. A number of the required courses are existing courses so that the impact will simply be increased enrollment in currently scheduled courses.

It is expected that some newly developed computer programs will be acquired from FEMA at no charge. These will be made available to students in the fire protection lab. The increased demand on the lab may result in needs for expansion over the next three to five years. However, the machines have recently been upgraded and the lab expanded so that it is anticipated that no impact will be experienced for at east the first two to three years.

### **C. Describe additional facilities, facility modifications and equipment that will be required for use. in the proposed program.**

None.

### **D. Indicate institutional plans for meeting any needs for additional facilities and/or support resources.**

N/A

### **E. Describe the adequacy of the existing library to support the proposed program in terms of print and non-print materials, equipment, and personnel, if there are library standards used by professional societies**

and/or accrediting agencies that will evaluate the program, compare these to existing library resources.

The existing library collection was certified as adequate by the subject matter librarian as part of the university curriculum and program approval process. Each department has an annual library acquisitions budget and the Department of Public Service Technology as well as the Department of Public Administration and Urban Studies have agreed to set building this subject matter as a priority for their expenditures for the next two years. Following that period of time it will be a standing component of the department library acquisitions subject matter listing.

**IX. Financial Resources**

**A. Provide a projected budget for the next four (4) academic years indicating the total needs to support the proposed program.**

Full time faculty who will be teaching in the program are already members of The University of Akron. The following are anticipated additional expenses.

	First Year	Second Yr.	Third Year	Fourth Yr.
Part Time Faculty	_____	<u>\$2,200</u>	<u>\$2,200</u>	_____
Gen Support	<u>\$1,000</u>	<u>\$ 200</u>	<u>\$ 200</u>	<u>\$250</u>
Total	<u>\$1,000</u>	<u>\$2,400</u>	<u>\$2,400</u>	<u>\$250</u>

**B. Indicate the adequacy of expected subsidy and other income to meet these needs.**

The expected subsidy should surpass the anticipated needs.

**C. Discuss briefly the internal reallocations of resources which will occur, or other sources of funding to be used to support the remaining resource requirements of this program. Be specific in terms of faculty reallocations.**

Public Service Technology is conducting a search for a new faculty in Fire Protection Technology as part of the five year strategic plan for the Community and Technology College. This will enable the current faculty member to pick up two of the emergency management courses each year. Dr. Nancy Grant plans to teach one course a year in the program and Dr. Annemarie Scarisbrick-Hauser plans to teach at one course a year in the program. The other course are currently scheduled and will require no reallocation of resources.

D. Complete and attach the "Financial Statement for New Degree Proposal" in Appendix "D" which provides an indication of the impact of the projected FTE's in this program on the institution's enrollments. (This form must be transmitted by the Ohio Board of Regents to the Speaker of the House of Representatives, the President of the Senate, the Legislative Budget Office of the Legislative Service Commission, and the Director of Budget and Management, at least ten days prior to formal action taken by the Regents, Ref. Section 3333.021 of the Ohio Revised Code.)

## ARTICULATION AGREEMENT

THE UNIVERSITY OF AKRON  
and  
STARK STATE COLLEGE OF TECHNOLOGY

This Agreement is hereby made and entered into on this 13th day of January, 1997, between The University of Akron, a state-assisted institution, hereinafter referred to as Akron, and Stark State College of Technology, a state institution, hereinafter referred to as Stark. By this Agreement, Akron and Stark affirm a joint commitment to promoting quality education and facilitating the transfer of students between their respective institutions to assist them in meeting their educational objectives.

- I. In accordance with this Agreement, Akron and Stark consent to mutual cooperation in correlating their respective programs for the benefit of their students. They will also foster communication between their faculties so that they may jointly address common needs for quality assessment and adaptability to change. The goal of this Agreement is to blend the advantages and resources of both institutions for the benefit of students and thereby provide the opportunity of planning a total baccalaureate degree program from the outset of their college education.

The concept of articulation encompasses both course credit transfer and program articulation. This agreement clarifies the status, treatment, and benefits for students who choose to transfer from Stark to Akron.

In all cases, the determination of the requirements for all baccalaureate degree programs will be the responsibility of Akron. All grade-point computations will be made using Akron procedures. In addition, remedial coursework in basic skills will not count toward the graduation requirements for baccalaureate programs at Akron. Each party reserves the right to make such changes in its course offering and degree requirements as may be required from time to time to meet its educational mission.

II. Specific Provisions

- (A) A student who meets Akron's transfer admission requirements and has successfully completed an associate degree at Stark will be guaranteed admission to The University of Akron and will be entitled to all rights afforded to native students at Akron with similar standing.
- (B) Students graduating from Stark with an associate degree having completed a minimum of 64 semester hours will be admitted as junior-level students and

will be entitled to all rights afforded native junior students at Akron. Students not graduating from Stark with an associate degree will be assigned the following levels: those having less than 32 semester hours will be admitted as freshmen-level students, those having a minimum of 32 semester hours will be admitted as sophomore-level students, those having a minimum of 64 semester hours will be admitted as junior-level students, those having a minimum of 96 semester hours will be admitted as senior-level students; the students will be entitled to all rights afforded native students having that level assignment.

- (C) Because some baccalaureate degrees at Akron require more than 128 semester hours, Akron cannot guarantee that students with an associate degree from Stark who transfer under this Agreement will complete all the requirements to graduate with a baccalaureate degree from Akron within two years or by completing an additional 64 semester hours at Akron.
- (D) Students who have completed the Stark Transfer Module but who have not completed the requirements for an associate degree from Stark shall be admitted to Akron on a case-by-case basis.
- (E) Stark's Transfer Module is a subset of Akron's general education requirements. Akron's general education requirements include courses in health/physical fitness and oral communication. Students transferring from Stark may need to complete additional courses at Stark or Akron to meet these requirements.
- (F) Stark may use Akron's name and/or logo in any educational support materials (including brochures, course listings, and related materials) in any promotions necessary to effect the terms of this Agreement or in any specific program articulation. The grant of this right does not extend to merchandising or other promotions or activities which would infringe the University's trademark license.

### III. General Provisions

- (A) Neither this Agreement nor any rights or duties arising pursuant to it may be assigned or modified by either party without prior written consent of the other party.

For Stark:

Mr. Wally Hoffer  
Dean of Student Services  
Stark State College of Technology  
Canton, OH 44720

- IV. Upon execution of this Agreement, Akron will work with Stark to develop and maintain Completion Programs and Transfer Course Requirement Guides for selected Akron baccalaureate programs to facilitate the transfer of students and provide them with information about program requirements.
- V. This Agreement will remain in effect for three years unless terminated earlier by Akron or Stark. A one-semester's written notice based on the Akron calendar shall be required prior to termination. Thereafter, this Agreement shall remain in effect from year to year, unless terminated pursuant to the procedures outlined in this paragraph.

Students who are already registered in courses at Stark under the auspices of this Agreement and are at any stage in their studies at such time will be permitted to complete their program subject to the provisions of this Agreement and any rules or restrictions applicable to native Akron students.

- VI. The parties agree that neither will discriminate in carrying out the terms, conditions, and undertakings set forth herein against any individual on the basis of race, color, religion, sex, national origin, age, color, disability, or veterans status and that they each will comply with all applicable laws regarding nondiscrimination and equal opportunity. In addition, each of the parties acknowledges that it has policies respecting equal opportunity and nondiscrimination and that notice of such policies is posted at various buildings on the respective campuses.
- VII. This Agreement shall be governed by and construed pursuant to the laws of the state of Ohio.

- (B) This Agreement constitutes the entire understanding of the parties to it with respect to the subject matter covered by it.
- (C) This Agreement shall be subject to any current and future conditions or limitations imposed by the Akron general bylaws and regulations. Akron will keep Stark informed of any changes in Akron general bylaws or regulations that impact this Agreement.
- (D) Students transferring from Stark under any of the provisions of this Agreement will be afforded catalog rights in the same fashion as a native Akron student.
- (E) Stark students shall be offered all the same rights and privileges according to class rank as native Akron students, subject to all applicable deadlines and considerations. This includes, but is not limited to, equal opportunity for registration, housing, advising and student activities.
- (F) No time limit declaring the course credits outdated and void shall be placed on the acceptance of approved credit transferrable from Stark to Akron unless there is a specific policy limitation for Akron students.
- (G) All credits earned with a grade of D- or better may be transferred to Akron; however, the applicability of this credit to the requirements for baccalaureate programs at Akron will be determined on a course equivalency basis and by the regulations of the specified degree program.
- (H) For purposes of establishing and administering this Agreement and its terms and provisions, it is agreed that the following parties shall serve as authorized representatives and agents of their respective institutions:

For Akron:

Mr. Jess Hays, Director  
Transfer and Articulation Services  
The University of Akron  
Polsky Building 451  
Akron, OH 44325-6227

# MEMO

**Fire Protection Technology**  
The University of Akron  
Akron, OH 44325-4304

Wayne -  
would it help to  
have a letter of  
support from  
me?  


DATE: March 19, 1997  
TO: Dr. Wayne Blanchard, Education Programs Officer  
From: David H. Hoover, Ph.D.  
SUBJECT: Update information

Please find enclosed three course updates which Nancy requested that I send to you. In addition, I have included our formal proposal to the Ohio Board of Regents which was submitted by the University of Akron on March 3. Prior to submission, we (Nancy and I) met twice with the folks at the Ohio Emergency Management Agency to make sure that all bases were covered.

The normal time line for a new degree proposal includes a six-month waiting period up front for review etc. However, the OBOR called the Dean Williams on Friday, March 7 to inform him that we were to proceed with the planning phase at once. This includes student surveys, an analysis of the job market and organizing the degree details. Apparently, the six-month review period was waived because of a perceived need for such a program. I might say that we may also have been added by the horrendous flooding in southern Ohio and the well-defined need for qualified emergency managers.

Nancy and I spent the weekend of 3/8 and 3/9 at the EOC in Columbus and at the community of New Richmond, one of the sites hardest hit! It was a valuable experience for both of us! However, now that the formal submission requirements have been satisfied, we are back working on the EMI academic courses and will be sending you updates this coming week.

We will call you near the end of next week. In fact, I'll E-mail you on Monday with some open times for a conference call.

**OHIO BOARD OF REGENTS**  
**Preliminary Prospectus**  
**from**  
**The University of Akron**  
**Community and Technical College**

A. **Title of Program:** Emergency Management Technology

2+2 Baccalaureate Degree program.

B. **Rationale**

The field of Emergency Management is continuing to develop rapidly as disasters and major emergencies become more frequent and the response to these emergencies become more complex. In addition, the development of federal and state legislation affecting emergency planning and preparedness has resulted in a demand for well educated individuals who have employment opportunities not only in all levels of government, but also with business and industry.

Emergency managers generally have an area of technical expertise which is then supplemented with a higher level of more advanced education. The combination of Fire Protection Technology, Fire Science Technology, Criminal Justice Technology, Environmental Safety and Health Technology, and Emergency Management Technology provides the student with the necessary technical background in an area of expertise and upper level education in the emerging field of emergency management which incorporates critical thinking and analytical skills. These analytical skills are enhanced by the combination of courses from arts and sciences which are relevant to the profession of emergency management.

The University of Akron has faculty who are nationally recognized in the field of emergency management as well as fire protection and hazardous materials. The addition of new courses, which can be taught by current faculty, and incorporation of existing social science courses would allow the University to offer a degree which is in great demand and not available locally, elsewhere in Ohio, or even in the region.

The 1996 University of Akron University Review Committee (URC) report on the Division of Public Service Technology recognized Fire Protection Technology as an outstanding program and recommended the creation of 2+2 programs to offer graduates the opportunity to pursue a relevant four year degree.

This degree has support from Kay Goss, Associate Director of the Federal Emergency Management Agency (FEMA), Washington, D.C. and from the Ohio Emergency Management Agency as well as local emergency management officials.

**C. Relationship of the proposed program to the overall mission of the institution.**

The University of Akron is a Metropolitan University, serving the greater Akron area. The program in Emergency Management Technology is expected to draw full and part time, in-service students from the broader metropolitan area as well as from around the State of Ohio. The University of Akron offers comprehensive programs of instruction from associate through doctoral levels. This program would provide a bridge and serve an area not currently available. Students pursuing an associate degree in Fire Protection currently have only one option for a Bachelors degree in a 2+2 format - Technical Education, which does not serve the professional development and future employment needs of the students. The Bachelors's in Emergency Management would provide a relevant degree that leads to employment and promotion in a variety of areas: local and state government, industry and business, and non-profit organizations.

This program directly addresses three of the five Strategic Directions of the University's Strategic Directions:

*I Attract and retain a higher quality and more diverse student body.* A number of the entering students will be older than the traditional mix. They are more mature students who value education and are generally of a high quality. This is an ideal degree for graduates from a number of regional two-year colleges.

*III Increase student retention and progress toward completion of their academic program.* Currently many graduates of Associate Degree programs who intend to pursue four year degrees do not continue their studies because of their interest in specialized area of employment. The University could better retain these students through a professional program providing knowledge and skills necessary in a growing area of employment.

*V Cultivate scholarly and creative activities that are recognized regionally, nationally, and internationally.* Currently, faculty at the University of Akron have national and international recognition in emergency management. In addition, there are currently only two programs in the nation which offer this degree. This is an opportunity for the university to develop its resources and provide a program for students which would gain international as well as national recognition.

**D. Proposed Implementation Date:**

Fall 1998

**E. Organizational Unit Responsible for this Program:**

The Community and Technical College

## F. Catalog Style Description

### Bachelor of Science in Emergency Management Technology

This program prepares students with a background in fire protection technology, criminal justice technology or environmental safety to enter and advance in the field of emergency management through the acquisition of specialized knowledge.

**Admission requirements** (for undergraduate programs specify for both direct admits and students using intercollege transfer)

- (a) Students desiring direct admission to the degree program should apply to the Community and Technical College for acceptance into the Emergency Management Technology degree program. All other University admission requirements will be the same.
- (b) Students desiring transfer or continuation from a two year program should have completed a two-year associate of applied science in Fire Protection Technology or a related degree before applying for admission into the Emergency Management Technology Program. All other University admission requirements will be the same.

### Courses required for completion of program

3350:305	Maps and Map Reading	3cr.
3350:310	Physical and Environmental Geography	3cr.
3350:314	Climatology	3cr.
3350:405	Geographic Information Systems	3cr.
2230:365	Principles of Emergency Management	3cr.
2230:367	Emergency Response Planning	3cr.
2230:460	Hazard Mitigation	3cr.
2230:461	Disaster Recovery	3cr.
3350:462	Geography of Natural Disasters	3cr.
2230:302	Community Disaster Preparedness	2cr.
2230:304	Business/Industry Crisis Management	2cr.
2230:490	Special Topics in Emergency Management	1-4cr.

### Courses which can be used as electives in program

3350:320	Economic Geography	3cr.
3350:428	Industrial and Commercial Site Location	3cr.
3350:447	Introduction to Remote Sensing	3cr.
3350:444	GIS Applications in Geography and Planning	3cr.
3250:385	Economics of Natural Resources & the Environment	3cr.
3370:350	Structural Geology	3cr.

3370:421	Coastal Geology	3cr.
3400:471	American Environmental History	3cr.
3700:370	Public Administration Concepts and Practices	4cr.
3700:412	Global Environment Politics	3cr.
7600:303	Public Relations Writing	3cr.
7600:344	Group Decision Making	3cr.
3350:433	Introduction to Planning	3cr.
3350:481	Geographic Research Methods	3cr.

### Additional program requirements

- \* Completion of an Associate of Applied Science degree in an appropriate Technical Program such as: Fire Protection Technology, Criminal Justice Technology, Environmental Safety Technology, Fire Science, Law Enforcement among others.
- \* Completion of General Education Requirements.
- \* Completion of at least 47 credits of 300/400 level courses in addition to the General Studies requirements.
- \* Attaining a minimum grade-point average of 2.00 in all work attempted in the major field at The University of Akron.

### G. Details regarding the source of students.

The students are expected to be 50% full time and 50% part time.

Initially many will be classified as new students as they are, in fact, returning students who received their Associate degree over a year ago. After the first six or seven years, it is expected that these students will be continuing in that they are going directly from a two-year program to a four year program. A number will be new to the University of Akron, however, as they probably would not pursue a four year degree were this one not offered.

Surveys of students enrolled in required courses in associate degree programs identified as probable sources for new students in the Emergency Management program revealed a strong interest. Telephone surveys with graduates also resulted in strong support. Some graduates even sent letters encouraging the development of the new degree program.

### Anticipated Numbers of Entering Students

	Entering Students (Junior level)	Continuing Students (Senior Level)
1998 - 1999 Fall	54	0
1998 - 1999 Spring	10	0
1999 - 2000 Fall	30	60
1999 - 2000 Spring	7	59
2000 - 2001 Fall	30	42
2000 - 2001 Spring	10	45
2001 - 2002 Fall	30	50
2001 - 2002 Spring	10	55
Total Entering Students	182	

#### H. Availability of other Such Programs Within a Fifty Mile Radius.

There are no other programs available within a fifty mile radius. In fact, there are no other Emergency Management Technology programs available within the State of Ohio.

#### I. Impact of This Proposed Program on Facilities, Faculty, and Support Services.

Current classrooms are adequate to handle the proposed program. Any technical equipment to be used is currently in place. No remodeling or additional equipment will be needed.

The courses will be taught by professors in fire protection technology, public administration and urban studies and geography and planning. It may be necessary to hire a part time instructor to cover one course per semester for the first two years. After that, it may be necessary to hire two part time faculty per semester if enrollment demands it.

#### J. Estimated total costs, over and above current levels of operation, associated with this proposed program during the next four years.

The anticipated additional cost is for part time instructors. We estimate this to be \$4,000 per year for the first two years and \$8,000 per year for the next two years. Other incidental costs that might be incurred would be for advertising and promotion to attract

new students to the program. This should not cost more than \$1500 for the four years. If the level of enrollment continues as anticipated, the University will probably have to consider full time faculty for this program in the fourth year.

## NEW PROGRAM FORM

Instructions: Fill out this form if a new program is proposed. Only one new program is to be proposed in each curriculum proposal.

If the new program requires addition of courses or changes to existing courses, the appropriate COURSE ADDITION FORMS and COURSE CHANGE FORMS must also be filed, either with this proposal or with a previous proposal.

Note: Only COURSE ADDITION FORMS and COURSE CHANGE FORMS relevant to the new program are to be included in the proposal.

1. Program name Emergency Management Technology

2. Type of program (mark an x by the appropriate choice)

Associate Degree Program

Baccalaureate Degree Program

Master Degree Program

Doctoral Program

Professional Program

Minor

Certificate Program

3. The program will be offered at (mark an x by all that apply)

Akron campus

Wayne College

Other (list)

4. **Existing courses required for completion of program** (list each individually with course number, title and credit hours)

- |     |          |                                      |      |
|-----|----------|--------------------------------------|------|
| (a) | 3350:305 | Maps and Map Reading                 | 3cr. |
| (b) | 3350:310 | Physical and Environmental Geography | 3cr. |
| (c) | 3350:314 | Climatology                          | 3cr. |
| (d) | 3350:405 | Geographic Information Systems       | 3cr. |

5. **Courses new to university offering required for completion of program** (list each individually with course number, title and credit hours)

- |     |          |  |        |
|-----|----------|--|--------|
| (a) | 2230:365 | Principles of Emergency Management     | 3cr.   |
| (b) | 2230:367 | Emergency Response Planning            | 3cr.   |
| (c) | 2230:460 | Hazard Mitigation                      | 3cr.   |
| (d) | 2230:461 | Disaster Recovery                      | 3cr.   |
| (e) | 3350:462 | Geography of Natural Disasters         | 3cr.   |
| (f) | 2230:302 | Community Disaster Preparedness        | 2cr.   |
| (g) | 2230:304 | Business/Industry Crisis Management    | 2cr.   |
| (h) | 2230:490 | Special Topics in Emergency Management | 1-4cr. |

6. **Existing courses which can be used as electives in program** (list each individually with course number, title and credit hours; if options exist, list by option)

- |     |          |  |      |
|-----|----------|--|------|
| (a) | 3350:320 | Economic Geography                                 | 3cr. |
| (b) | 3350:428 | Industrial and Commercial Site Location            | 3cr. |
| (c) | 3350:447 | Introduction to Remote Sensing                     | 3cr. |
| (d) | 3350:444 | GIS Applications in Geography and Planning         | 3cr. |
| (e) | 3250:385 | Economics of Natural Resources and the Environment | 3cr. |
| (f) | 3370:350 | Structural Geology                                 | 3cr. |
| (g) | 3370:421 | Coastal Geology                                    | 3cr. |
| (h) | 3400:471 | American Environmental History                     | 3cr. |
| (i) | 3700:370 | Public Administration Concepts and Practices       | 4cr. |
| (j) | 3700:412 | Global Environment Politics                        | 3cr. |
| (k) | 7600:303 | Public Relations Writing                           | 3cr. |
| (l) | 7600:344 | Group Decision Making                              | 3cr. |
| (m) | 3350:433 | Introduction to Planning                           | 3cr. |
| (n) | 3350:481 | Geographic Research Methods                        | 3cr. |

7. **Courses new to university offering which can be used as electives in program** (list each individually with course number, title and credit hours; if options exist, list by option)

None

8. **Additional program requirements**

- \* Completion of an Associate of Applied Science degree in Fire Protection Technology, Criminal Justice Technology, in the Community and Technical College, or Environmental Safety Technology in the Wayne Campus.
- \* Completion of General Education Requirements.
- \* Completion of at least 47 credits of 300/400 level courses in addition to the General Studies requirements.
- \* Attaining a minimum grade-point average of 2.00 in all work attempted in the major field at The University of Akron.

9. **Admission requirements** (for undergraduate programs specify for both direct admits and students using intercollege transfer)

- (a) Students desiring direct admission to the degree program should apply to the Community and Technical College for acceptance into the Emergency Management Technology degree program. All other University admission requirements will be the same.
- (b) Students desiring transfer or continuation from a two year program should have completed a two-year associate of applied science in Fire Protection Technology or a related degree before applying for admission into the Emergency Management Technology Program. All other University admission requirements will be the same.

10. **Other information**

The primary goal of the Federal Emergency Management Agency (FEMA) Higher Education Project is to encourage and support the implementation of emergency management education in colleges and universities across the United States. The discussion of the role of higher education in emergency management is international in scope and was a major topic in the international Internet conference of Cities in Risk that dealt with impacts of disaster on critics and how to mitigate them. There is a recognition that emergency managers require the critical thinking and analytic skills as well as technical information. This combination prepares the individual for a career in the expanding and diverse field of emergency management.

As a result, this proposal has support from Kay Goss, Associate Director of FEMA and from the Ohio Emergency Management Agency as well as local emergency management officials.

The National Coordinating Council of Emergency Managers (NCCEM) has established criteria for Certification as an Emergency Manager. One of the criteria is a Bachelor's degree in selected fields. (This is an increase from the prior level of Associate degree.) This degree would meet that requirement. There are additional requirements of ongoing continuing education which can be met by relevant university courses. The demand for the proposed courses and the degree will continue to grow.

REQUIRED COURSES (12 hours):

2230:365	Principles of Emergency Management	3cr.
2230:367	Emergency Response Planning	3cr.
2230:460	Hazard Mitigation	3cr.
2230:461	Disaster Recovery	3cr.

ELECTIVE COURSES (6 hours):

3350:462	Geography of Natural Disasters	3cr.
3350:320	Economic Geography	3cr.
3350:428	Industrial and Commercial Site Location	3cr.
3350:447	Introduction to Remote Sensing	3cr.
3350:444	GIS Applications in Geography and Planning	3cr.
3250:385	Economics of Natural Resources and the Environment	3cr.
3370:350	Structural Geology	3cr.
3370:421	Coastal Geology	3cr.
3400:471	American Environmental History	3cr.
3700:370	Public Administration Concepts and Practices	4cr.
3700:412	Global Environment Politics	3cr.

