

**GEORGE WASHINGTON UNIVERSITY**



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## I. PROPOSED CURRICULUM DESCRIPTION:

### INTER-DISCIPLINARY GRADUATE DEGREE PROGRAM IN CRISIS AND EMERGENCY MANAGEMENT

The Crisis and Emergency Management graduate curricula will build on a basis of existing courses and will create interdisciplinary courses that are cross listed in two or more departments. The masters degree graduate curricula will consist of twelve graduate course consisting of: (1) the core material of the degree program discipline (typically five to six courses), (2) a crisis and emergency management core (four courses) and (3) two to four electives (at least one additional crisis and emergency management courses). The doctoral program will consist of a six course major in crisis and emergency management, an appropriate four course minor, and a dissertation in the crisis and emergency management area. and The curricula will initially be integrated in three existing masters degree programs (Engineering Management, Public Health, and Administrative Sciences) and one doctoral program (Engineering Management). The program will be designed and managed by coordinating committee representing the Institute For Crisis and Disaster Management, the Ronald Reagan Institute of Emergency Medicine, the Engineering Management Department, the Public Health program, and the Elliott School of International Affairs.

## II. Proposed Program Goals

*SHORT TERM GOAL: TO CREATE CONCENTRATIONS WITHIN EXISTING DEGREE PROGRAMS DURING ACADEMIC YEARS 1997/98-1998/99*

Master in Public Health (MPH) with a concentration in Emergency Management and Disaster Medicine (36 credits including an 18 credit Public Health core, and 15 credits in either emergency management or disaster response. Both options include 3 credit thesis or practicum)

Master of Engineering Management (MEM) with a concentration in Crisis and Disaster Management (36 credits including the 15 credit Engineering Management core, 15 credits in crisis and disaster management and 6 elective credits. A 6 credit thesis is optional.)

Doctor of Engineering Management with a four course minor in Crisis and Disaster Management (18 credit major, 12 credit minor plus language, qualifying examinations, and 24 credit dissertation)

*LONG TERM GOAL: TO CREATE AN INTERDISCIPLINARY GRADUATE MASTERS DEGREE PROGRAM IN CRISIS AND EMERGENCY MANAGEMENT*

## III. Proposed Coordinating Committee

John R. Harrald	Director, Institute for Crisis and Disaster Management Professor of Engineering Management
Jerrold Post	Director, Institute for Crisis and Disaster Management Professor of Psychiatry, Political Psychology and International Affairs; Director, Political Psychology Program
Joseph Barbera	Associate Director, Institute for Crisis and Disaster Management Director Disaster Medicine Program, Ronald Reagan Institute of Emergency Medicine
Craig DeAtley	Professor of Emergency Medicine and Public Health
Dan Hoffman	Director, Master of Public Health Program

#### IV. Proposed Curricula

*A. Courses created by Institute for Crisis and Disaster Management and offered as EMGT course (Cross listed as OEM and/or IAF courses). Core Courses indicated by asterisk\*.*

#### **EMGT/OEM 2X1/2X2\* (2 semester/6credits) Crisis and Emergency Management**

Topics:

- Defining crisis, emergency, disaster
- Crisis and contingency planning
  - Formal plans (FRP, NCP, etc)
  - Planning organizations
  - The planning process
- Organizing for Response
  - Creating the response organization
  - mobilization
  - ICS and other organizational forms
  - Emergent organizations
- Crisis Decision Making
- Crisis Communication
- Corporate crisis management
- Corporate contingency planning and disaster recovery
- Managing in a high velocity environment
  - Response management systems
  - Command and Control vs. Coordination and Communication
  - The need for information management

#### **EMGT/OEM 2X3\***

#### **Risk and Vulnerability in Natural and Technological Disasters**

Topics:

- Risk Assessment
- Risk Management
- Risk Communications
- Vulnerability Analysis
- Risk based Planning

#### **EMGT/OEM 2X4**

#### **Information Technology in Crisis and Disaster Management**

Topics:

- Role of Information in Response Management
- Taxonomy of disaster and crisis information
- Crisis decision support systems and technology
- Information technologies used in crisis and disaster management
  - Distributed processing
  - Communications
  - GIS
  - Computer based models
- The cause and effect of information breakdowns

**EMGT/IAF/OEM 2X5**

**Current Issues in Emergency and Crisis Management**

Topics:

- Guest speakers from Federal, state, corporate, academic and not for profit.
- Term project for students.

**EMGT 3X1**

**Environmental Hazard Management.**

Topics:

- Fundamental behavior of the geological, meteorological, radiological, chemical and biological hazards that face American communities
- Methods of assessing the threat each of these hazards present to a community
- An overview of the principal methods that communities can use to manage their vulnerability

**EMGT 3X2**

**Disaster Recovery and Business Continuity**

Topics:

- issues involved in community recovery from disaster; reconstruction, economic redevelopment
- issues in corporate disaster recovery
- Development of policies to require or encourage hazard mitigation

*B. Proposed Elliott School of International Affairs Courses*

**IAF 1X1**

**International Impacts of Disasters**

Topics

- Threat of natural and technological disasters
- International Terrorism
- Economic, political, and social impacts of disasters
- Impact of natural and technological disasters on sustainable economic development
- International organizations for disaster mitigation and relief
- International disaster response and recovery
- Career opportunities in international humanitarian and disaster relief organizations

*C. Proposed Emergency Medicine/Public Health Courses*

(Cross listed as EMGT or IAF courses)

(See attached OEM course descriptions)

OEM 313/ EMGT 3X1\*

Integrated Response to Community Disasters

OEM 314/EMGT 3X2

Emergency Management Research Design

OEM 318/EMGT 3X3

Strategic Planning and Implementation in Emergency Management

OEM 321/IAF 3X4

International Disaster Preparedness and Response

OEM 317/EMGT 3X5

Disaster Response Practicum

## V. Implementation Schedule

Two new courses will be implemented each semester starting in the Spring of 1998

### PROPOSED IMPLEMENTATION SCHEDULE:

PROGRAM	Spring 98	Fall 98	Spring 99	Fall 99
EMGT	2X1 2X3	2X2 2X5	2X4 3X1	3X2
IAFF	1X1			
OEM	OEM 313	OEM 314	OEM 318	OEM 321 OEM 317

## VI. Existing Courses that could be used as electives in an interdisciplinary Disaster and Emergency Management Curriculum.

### ENGINEERING MANAGEMENT

- EMGT 221 Environmental Management
- EMGT 224 Analytical Tools in Environmental Management
- EMGT 231 Program and Project Management
- EMGT 281 Systems Analysis and Management

### PUBLIC ADMINISTRATION:

- PAD 205 Introduction to Public Administration
- PAD 206 Ethics and Public Values
- PAD 213 Administration in the Federal Government
- PAD 220 Theory and Practice of Public Management
- PAD 221 Organization Theory and the Public Sector
- PAD 223 Behavioral Factors in Complex Organization
- PAD 224 Managerial Leadership in Complex Organizations
- PAD 245 Intergovernmental Relations
- PAD 253 Financial Management in the Public Sector
- PAD 260 Policy Formulation and Administration

### SOCIOLOGY

- SOC 241 Sociology of Organizations

### GEOGRAPHY

- GEO 222 Resources and the Environment