

REQUIRED COURSES FOR THE MAJOR

TABLE 1

| Course No. | Course Title | Course Description |
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| EADP 3010 | Intro to Emergency Mgmt. | 3 hours. Introduction to the theory, principles, phases and processes of emergency and disaster management. Topics include hazard, risk, vulnerability and comprehensive emergency management. Course also examines alternative career paths, the past evolution of the field and its future outlook. |
| EADP 3035 | Hazard Mitigation and Preparedness | 3 hours. Theoretical examination and practical application of pre-disaster management activities including hazard and vulnerability analysis, structural and non-structural mitigation, capability assessment, planning, training, exercises and public education. Development planning, political advocacy and networking are heavily stressed. |
| EADP 3045 | Disaster Response and Recovery | 3 hours. Theoretical examination and practical application of post-disaster management activities including human behavior in emergency situations, warning, evacuation, sheltering, triage, damage assessment, disaster declaration, debris removal, media relations, crisis counseling, individual and public assistance, and other relevant functions. Decision making, incident command, EOC operations, coordination and service delivery strategies are also discussed. |
| EADP 3055 | EOC Design and Operations | 3 hours. Emphasizes the principles of the design and operation of Emergency Operations Centers. In addition to standard EOC functions established in the scholarly literature, course material covers the selection and arrangement of suitable space and equipment, the acquisition and deployment of appropriate communications and information-management technology, crisis decision-making, and the integration of multiple organizations into an emergency management system. |
| EADP 3080 <i>or--</i> | Leadership and Organizational Behavior | 3 hours. Study of interpersonal relationships and organizational behavior as they apply to the field of emergency and disaster management. Topics include leadership, management, conflict resolution, influence and motivation. |
| <i>PADM 3020</i> | <i>Public Management</i> | <i>3 hours. An introduction to organization and management theories and practices as they concern federal, state and local governments.</i> |
| EADP 4080 | Capstone course in Emergency Mgmt. | 3 hours. Synthesis of emergency and disaster management concepts and perspectives. Case studies of disasters are emphasized to provide real-world examples of applied principles. Discussion of current theoretical approaches and future trends in the field. Topics include sustainable development, resistance, resilience and vulnerability. |
| PADM 3410 | Financial Aspects of Govt. | 3 hours. Politics and management of taxation, budgeting, grant-in-aid and municipal bonds. Conflicts among politicians, managers, and analysts in developing policy and financing programs. |
| EADP 4800* | Emergency Mgmt. Internship Preparation | 3 hours. Enrollment in this course is required for pre-career EADP students. Recommended to be taken the semester before the student serves their internship. Course prepares students for an internship. Periodic seminars cover career counseling, resume development, professionalism and interview skills. |
| EADP 4810* | Emergency Mgmt. Internship Practicum | 3 hours. Enrollment in this course is required for pre-career EADP students. Provides practical experience in a supervised emergency management setting geared toward the integration of theory and practice. Requires a minimum of 240 contact hours within the practicum setting, plus attendance at scheduled classes. Enrollment is restricted to EADP majors who have completed EADP 4800, EADP 3010, 3035, 3045 & 3 additional hours of EADP coursework. Application for approval of the practicum site occurs in the semester prior to enrollment in this course. |

*Up to 6 hours of EADP 4800 and/or 4810 is required of students with no prior relevant professional experience.

EADP ELECTIVES FOR THE MAJOR

TABLE 2

| Course Number | Course Title | Course Description |
|----------------------|---|---|
| EADP 2700 | Images of Disasters in Film and Media | 3 hours. Examination of the popular culture pertaining to disasters that result from portrayals of catastrophic events in film and by the media. Discussion of what can be done to alter myths about human behavior in emergency and disaster situations. |
| 4000 | Hazardous Materials Planning & Management | 3 hours. Planning for and management of hazardous materials incidents. Attention is given to environmental regulations as they relate to hazardous materials. Defensive strategies for hazardous materials response are identified. |
| 4010 | Public Health and Disasters | 3 hours. Discussion of the changing and unique role of the public health field in emergency management, paying special attention to epidemiology, integration with emergency services, medical/first responders, public safety, bio-terrorism preparedness and public/professional community education. |
| 4015 | Flood Plain Management | 3 hours. Identification and assessment of flood related hazards and vulnerabilities. Evaluation of the merit and necessity of implementing various structural and non-structural approaches to reduce flood related disasters. Includes discussion about mapping, containment devices, land use planning, early warning systems and insurance. |
| 4020 | The Federal Government and Disasters | 3 hours. Historical review of how the Cold War, disasters and legislation have resulted in the creation of the Federal Emergency Management Agency. Examination of roles and inter-organizational relationships among FEMA and other federal agencies. |
| 4030 | Private Sector Issues | 3 hours. Study of business continuity and the role of businesses in emergencies and disasters. Topics include business impact analysis, recovery planning and multi-organizational coordination. |
| 4040 | International Disasters | 3 hours. Exploration of issues pertinent to international disasters, including the susceptibility of poor countries to natural disasters, the nature of complex emergencies, and the actors involved in humanitarian activity across national borders. Special attention is given to the social, political and economic barriers that perpetuate the vicious cycle of vulnerability as well as the need for long term solutions that promote beneficent forms of development. |
| 4050 | Special Populations and Disasters | 3 hours. Identification and examination of special populations in disaster. Discussion of their needs and service delivery strategies. Emphasis on relevant response agencies and programs. |
| 4060 | Technology in Emergency Management | 3 hours. Examination of the use of technology and computers in emergency management. Topics include software, hardware, information management, communication equipment and future innovations. |
| 4065 | Disaster Exercise Design | 3 hours. Study in designing and implementing successful disaster exercise programs. Types of disaster exercises and their purpose are examined. Process of designing exercises is explored in depth. Methods of conducting and evaluating exercises are discussed and analyzed. Each student participates in producing, conducting and evaluating a disaster exercise. |
| 4090 | Terrorism and Emergency Management | 3 hours. In depth investigation into the ideology forces and groups involved in terrorist activity. Analysis of the effects of terrorism, including the similarities and differences to other types of disasters. Attention is given to weapons of mass destruction and the unique challenges to prevent, prepare for, respond to, and recover from terrorist attacks. |
| 4980 | Experimental Course | 3 hours. Topics of interest of EADP instructors offered on an experimental basis. |

ADDITIONAL ELECTIVES FOR THE MAJOR, OUTSIDE EADP**

TABLE 3

| Course Number | Course Title | Course Description |
|---------------|--|--|
| PADM 3000** | Public Administration | 3 hours. Organizations and management in executive departments, and national, state and municipal governments; bureaucracy; administrative theory; budgeting; personnel and administrative leadership. |
| PADM 3700** | Issues in Public Administration | 3 hours. In-depth investigation of a contemporary issue of concern to public managers. Possible topics include managing nonprofit organizations, public-private partnerships and ethics in government. |
| PADM 4130** | American Intergovernmental Relations | 3 hours. Federal system; constitutional and theoretical bases of federalism; national/state/local government conflict and cooperation; regional arrangements; political centralization; impact upon American traditions; future prospects. |
| PADM 4450** | Public Policy Analysis | 3 hours. Policy making, impact of public policy and factors that place specific problems on the public agenda. |
| BIOL 3160** | Biological Resource Conservation and Mgmt. | 3 hours. Principles and values relating to natural biological resources; ecological concepts applied to resource management and protection of aquatic organisms, rangelands, forests and wildlife. Prerequisite(s): 6 hours of biological sciences. |
| GEOG 2180 ** | Geosystems, Environment and Society | 3 hours. Examines the physical and human dynamics associated with topics such as earthquakes, landslides, volcanoes, coastal processes, streams and flooding, soils, ground water, mineral extraction/processing, air pollution, energy production, water resources, and waste disposal. Discuss contemporary environmental issues and events, including some of the key environmental issues in North Texas. |
| GEOG 3500** | Intro to Geographic Information Systems | 3 hours. Introduces the concepts and applications of computer-based spatial data handling, known as geographic information systems (GIS) technology. Illustrates the essential methods of GIS and its applications in fields including geography, business, administration, planning and environmental science. Students gain application skills via a series of practical exercises illustrating problem solving strategies using up-to-date software packages. |
| GEOG 4050** | Cartography and Graphics | 3 hours. Construction and interpretation of topographic maps; thematic mapping of geographically referenced data; field mapping and surveying techniques; introduction to global positioning systems and computer cartography. |
| GEOG 4120** | Medical Geography | 3 hours. Locational aspects of disease and health care, spatial patterns of diseases, health facilities, health care policies and problems. Prerequisite(s): GEOG 2110, GEOG 2170, GEOG 3190 and GEOG 3500, or consent of department. |
| GEOG 4170** | Map-Air Photo Analysis | 3 hours. Evaluation and interpretation of aerial photography and satellite images from the most common sensing devices. Digital processing of satellite data on microcomputer. Prerequisite(s): GEOG 2180 or consent of department. |
| GEOG 4240** | Meteorology | 3 hours. Weather elements and controls; air masses and upper air wind flow; emphasis on atmospheric storm systems. Prerequisite(s): GEOG 2110 and GEOG 2180, or consent of department. |
| GEOG 4400** | Introduction to Remote Sensing | 3 hours. Principles of remote sensing technology, including the physical principles of remote sensing, aerial photography, airborne and space-borne multispectral and hyperspectral imaging, and thermal and microwave imaging. Analytical techniques and applications of remotely sensed data in geography and other fields. Teaches skills for handling both analog and digital remote sensing data through visual interpretation and computer-based digital image processing. Prerequisite(s): GEOG 2110, GEOG 2180, and GEOG 3190, or consent of department. |
| MGMT 4180** | Workplace Health and Safety | 3 hours. Problems of occupational safety and health (OSHA) workers' compensation, unemployment compensation, industrial security and environmental risk management. |

****Students may take, or transfer in, a maximum of six hours of credit from courses anywhere outside the major, including FEMA courses.**

ADDITIONAL ELECTIVES FOR THE MAJOR, OUTSIDE EADP**

TABLE 3, *continued*

| Course Number | Course Title | Course Description |
|---------------|---|--|
| PACS 3000** | Pathways to Civic Engagement | 3 hours. Promotes an understanding of self in relation to the theory and practice of civic engagement. Topics include the history of civic engagement and civil society, earning and spending social capital, voluntary sector engagement, trends in civic engagement in the U.S., and social issues. This course has a service learning requirement. |
| PACS 4210** | Intro to Philanthropy and Fundraising | 3 hours. Provides an overview of financial planning and fundraising practices in non-profit organizations from the perspective of the giver. Students learn to assess the financial health of organizations, understand the duty of fiscal responsibility and develop and implement fundraising strategies. |
| PACS 4220** | Proposal Writing and Grants Administration | 3 hours. Basic steps in researching funding ideas, including how to use the Internet as a fundamental tool and the detailed steps required for preparing funding applications. Focus on the skills and tools needed to monitor funds once grants have been awarded. |
| PACS 4230** | Social Evolution of Contemporary Volunteerism | 3 hours. Analysis and review of the social evolution of contemporary volunteerism from revolutionary times to the present. Study of the current issues, definitions, and trends in the field of professional management. Introduction to social systems supporting or limiting volunteerism and volunteerism resources on the Internet. May not be repeated at the graduate level as COMS 5100 |
| PACS 4240** | Volunteer Mgmt Concepts & Applications | 3 hours. Analysis and review of day-to-day applications of management principles to the administrative and operating practices of contemporary volunteer programs in the public, not-for-profit, and for-profit sectors. Focuses on volunteer program management and organization, including targeting, recruiting, training, supervising, motivating, counseling, retaining and recognizing volunteer workforces. May not be repeated if credit has been received for it at the graduate level |
| PACS 4250** | Community Resource Mapping and Collaboration | 3 hours. Analyzes systems that measure community assets and resources. Explores the means of identifying and approaching potential collaborative community partners, and focuses on the development of joint proposals and/or business plans. Provides an overview of the role of volunteer managers and agency leadership of community organizations that provide resources in the development of a collaborative, capacity building community. An ecological approach is used to analyze the full range of human service agency services: health, social, educational, diagnostic, enrichment, religious, civic and legal. Students have an opportunity to do field work with agency staff on assigned community projects. |
| PACS 4260** | Volunteer Program Planning and Evaluation | 3 hours. Seminar designed to provide students with the basic skills necessary to systematically design and plan volunteer programs, and evaluate their effectiveness. Special emphasis is given to measuring program outcomes. Same as HSML 4700. May not be repeated if credit has been received for it at the graduate level. |
| RMIN 4600** | Risk Management | 3 hours. Study of financial effects of pure risk on businesses and not-for-profit institutions; policy, goals, objectives, organization of effort, identification and evaluation of risk; selection of risk treatment/financing tools; implementation and review of tools used; probability analyses of data and financial evaluation of alternative tools. |
| SOCI 3550** | Collective Behavior | 3 hours. Human behavior in sporadic and unstructured situations; theories and case studies of rumors, crowds, panics, riots, disasters, fads and crazes; links among collective behavior episodes, social movements and social change. Prerequisite(s): SOCI 1510 or equivalent. |
| SOCI 3560** | Sociology of Disasters | 3 hours. Introduction to the study of human response to disaster events, including political and economic factors influencing vulnerability. Case studies of major disasters are used to explore topics such as the impact of gender, class, ethnicity and age on vulnerability, response, and impacts; the effects of larger political and economic systems on disaster response; and the relationship of disasters to social change. Prerequisite(s): SOCI 1510 or equivalent. |

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