

DEMS 5081 Applied Topics in Disaster & Emergency Management  
Course Director: James Kilgour  
E-Mail:

### SCHEDULE

Date:  
Start Time:  
Location:

### COURSE DESCRIPTION

The course provides an overview of selected theoretical perspectives, methods, tools, research findings and issues in the field of disaster and emergency management. The focus of the course is on the practical application of these theories and concepts to public and private sector organizations, with a particular emphasis on the administration and management of those elements.

### TOPICS

- Hazard Risk Management Process
- Administrative Considerations: Policy and Legislation/Regulations
- Mitigation – What is the Emergency Manager able to do?\*
- Risk Assessment
- Critical Infrastructure Assurance
- Emergency Operation Centre and the Incident Management System
- Training and Exercises
- Disaster Resilient Cities - Climate Change and Adaptation
- Local Authority Recovery vs. Community Recovery
- Public Education and Awareness – Challenges and Opportunities

### METHODS

The course will be taught through lectures, discussion, case studies, exercises, and student discussion panels. Students will be expected to be able to discuss the assigned readings for each of the topics. In addition some topics will have guest speakers and/or a field trip to see how that concept is being applied.

## MOODLE

This course uses Moodle for information sharing. All students who register for this course are requested to activate their Moodle service. Once activated, students can access Moodle for this course by logging into “moodle.yorku.ca” using their York ID and Password. All course materials, assignments, announcements and course outline are posted in that site.

## READINGS

Readings can be found in this document as well as on the course website.

Weekly discussion topics will be posted on the course website and given to students one or two weeks prior to that topic being discussed.

## INSTRUCTOR CONTACT

I will be available to answer your questions during class breaks and at the end of each class. In between classes, I would encourage you to contact me with any questions or concerns by e-mail.

## COURSE OUTLINE

Please note that the Course Director may put additional required readings on the Moodle site. However an email will be sent and all students will be advised in class of any addition readings

<b>Topic and Readings</b>
Hazard Risk Management Process
Administrative Considerations: Policy and Legislation/Regulations
Mitigation – What is the Emergency Manager able to do?  <i>Readings:</i>  Mitigation Strategies and Integrated Emergency Management David R. Godschalk and David J. Brower. <i>Public Administration Review</i> , Vol. 45, Special Issue: Emergency Management: A Challenge for Public Administration (Jan., 1985), pp. 64-71  Integrating Hazard Mitigation into Other Local Plans. <u>Schwab, James C, AICP. Planning Advisory Service Report</u> (May 2010): 41-46  Making Mitigation a Reality. <u>Krimme, Richard W.</u> Australian Journal of Emergency Management, The, ISSN 1324-1540, 1998, Volume 13, Issue 1, pp. 60 - 64
Hillsborough – Case Study

## Risk Assessment

### *Readings:*

Risk Assessment and Management in Local Government Emergency Planning

[http://www.iclr.org/images/Risk\\_assessment\\_and\\_management\\_in\\_local\\_government\\_emergency\\_planning.pdf](http://www.iclr.org/images/Risk_assessment_and_management_in_local_government_emergency_planning.pdf)

## Emergency Operation Centre and the Incident Management System

### *Readings:*

The Collective Framing of Crisis Management: A Ventriloquial Analysis of Emergency Operations Centres. Bergeron, Caroline D.; Cooren, François. *Journal of Contingencies & Crisis Management*. Sep2012, Vol. 20 Issue 3, p120-137

The structure and function of community emergency operations centres.

Ronald W. Perry . *Disaster Prevention and Management*, ISSN 0965-3562, 1995, Volume 4, Issue 5, pp. 37 - 41

Incident management systems in disaster management

Ronald W. Perry. *Disaster Prevention and Management*, ISSN 0965-3562, 2003, Volume 12, Issue 5, pp. 405 - 412

## READING WEEK

## Training and Exercises

### *Readings:*

Assessing emergency management training and exercises

Helen Sinclair; Emma E. Doyle; David M. Johnston; Douglas Paton. *Disaster Prevention and Management*, ISSN 0965-3562, 2012, Volume 21, Issue 4, pp. 507 – 521

Decision-making training in local government emergency management

Helen Sinclair; Emma E.H. Doyle; David M. Johnston; Douglas Paton. *International Journal of Emergency Services*, ISSN 2047-0894, 2012, Volume 1, Issue 2, pp. 159 - 174

Emergency Exercise and Training Techniques. Renner, Sarah. *Australian Journal of Emergency Management*, The, ISSN 1324-1540, 2001, Volume 16, Issue 2, pp. 26 - 35

## Disaster Resilient Cities - Climate Change and Adaptation

### *Readings:*

Public–Private Partnerships for the Development of Disaster Resilient Communities. Justine Chen; Ted Hsuan Yun Chen; Ilan Vertinsky; Lilia Yumagulova; Chansoo Park  
Journal of Contingencies and Crisis Management (September 2013), 21 (3), pg. 130-143

Engaging public for building resilient communities to reduce disaster impact. N. Nirupama; Amanda Maula. Natural Hazards (March 2013), 66 (1), pg. 51-59

Creating disaster-resilient communities: Evaluating the promise and performance of new urbanism. Mark R. Stevens; Philip R. Berke; Yan Song. Landscape and Urban Planning (February 2010), 94 (2), pg. 105-115

## Local Authority Recovery vs. Community Recovery

### *Readings:*

Psychological Aspects of Disaster Recovery: Integrating Communities into Disaster Planning and Policy Making

[http://www.iclr.org/images/Psychosocial\\_aspects\\_of\\_disaster\\_recovery.pdf](http://www.iclr.org/images/Psychosocial_aspects_of_disaster_recovery.pdf)

Government of British Columbia: Community Disaster Recovery Guide

[www.pep.bc.ca/community/recoverytk.html](http://www.pep.bc.ca/community/recoverytk.html)

Emergency Management Australia: Recovery

[http://www.ema.gov.au/www/emaweb/rwpattach.nsf/VAP/\(3273BD3F76A7A5DEDAE36942A54D7D90\)~Manual10-Recovery.pdf/\\$file/Manual10-Recovery.pdf](http://www.ema.gov.au/www/emaweb/rwpattach.nsf/VAP/(3273BD3F76A7A5DEDAE36942A54D7D90)~Manual10-Recovery.pdf/$file/Manual10-Recovery.pdf)

## Public Education and Awareness – Challenges and Opportunities

### *Readings:*

Education and Awareness. Conkey, Howard; Penrose, Jamie; Donovan, Garth. Australian Journal of Emergency Management, The, ISSN 1324-1540, 08/2004, Volume 19, Issue 3, pp. 47 - 49

Good Practice in Emergency Management. by Parkes, Thomas. Australian Journal of Emergency Management, The, ISSN 1324-1540, 2000, Volume 15, Issue 1

Increasing public awareness of natural hazards via the Internet. Paula K. Dunbar Natural Hazards (September 2007), 42 (3), pg. 529-536

## Case Studies