The Master of Disaster and Emergency Management (MDEM) is the only graduate program of its kind in Ontario and one of only two in Canada. It is designed to meet the critical need for professionals with advanced level knowledge and skills in this exciting and important field. The program will appeal to those currently working in the field looking to assume positions of increasing responsibility as well as those aspiring to become Disaster & Emergency Management professionals. Studying on either a full-time or part-time basis, you will develop the knowledge and skills to prevent, mitigate, prepare for, respond to and recover from local, national and international disasters and emergencies. The program is interdisciplinary drawing on the strengths of faculty from across York University to offer a wide range of expertise in areas like environmental risks and management, natural hazards, business continuity, public health, humanitarian law, public safety and security, crisis management, war and complex emergencies.

LIST OF CONTENT

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Disaster and Emergency Management (MDEM)</td>
<td>2</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>2</td>
</tr>
<tr>
<td>Degree by MRP</td>
<td>3</td>
</tr>
<tr>
<td>Degree by course work</td>
<td>4</td>
</tr>
<tr>
<td>Optional /Elective course</td>
<td>4</td>
</tr>
<tr>
<td>Practicum</td>
<td>6</td>
</tr>
<tr>
<td>Duties and responsibilities</td>
<td>6</td>
</tr>
<tr>
<td>Finances</td>
<td>6</td>
</tr>
<tr>
<td>New Students</td>
<td>7</td>
</tr>
<tr>
<td>Future Career Opportunities</td>
<td>8</td>
</tr>
<tr>
<td>Associations, Certifications, Conferences and More</td>
<td>8</td>
</tr>
<tr>
<td>Faculty</td>
<td>10</td>
</tr>
<tr>
<td>Administrative Staff</td>
<td>12</td>
</tr>
<tr>
<td>Contacts</td>
<td>12</td>
</tr>
<tr>
<td>Annual Overnight Exercise</td>
<td>13</td>
</tr>
<tr>
<td>Frequently Asked Questions (FAQs)</td>
<td>13</td>
</tr>
<tr>
<td>Upcoming PhD Program</td>
<td>14</td>
</tr>
<tr>
<td>ANNEX 1 – MRP Proposal Template/Sample</td>
<td>15</td>
</tr>
<tr>
<td>ANNEX 2 – Student Commitment Form</td>
<td>16</td>
</tr>
<tr>
<td>ANNEX 3 – Brief Course Description</td>
<td>17</td>
</tr>
<tr>
<td>ANNEX 4 – Course Schedule</td>
<td>18</td>
</tr>
</tbody>
</table>
Master of Disaster and Emergency Management (MDEM) Options:

To complete the program there are two options available:

**Major Research Paper stream** (24 course credits, the equivalent to 8 courses, worth 3 credits each + the Major Research Paper which is worth 6 credits).

**Course work stream** (30 course credits, the equivalent to 10 courses worth 3 credits each)

************************************************************************************************************

If you are planning on doing an MRP please note that you must take a research methods course in both the fall and winter terms. If you are planning a course-based degree then you may choose which methods course you wish to take, which can be in any term.

---

**Differences between the two streams**

<table>
<thead>
<tr>
<th>MAJOR RESEARCH PAPER (MRP) STREAM</th>
<th>COURSE WORK STREAM</th>
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<tbody>
<tr>
<td>Total number of</td>
<td>Total number of</td>
</tr>
<tr>
<td>8 courses (24 credits)</td>
<td>10 courses (30 credits)</td>
</tr>
<tr>
<td>Other require-</td>
<td>DEMS 5020 – Disasters: Concepts &amp; Causes</td>
</tr>
<tr>
<td>MRP (80-100 pages) (6 credits)</td>
<td>DEMS 5030 – Social &amp; Behavioural Dimensions of Disasters</td>
</tr>
<tr>
<td>DEAMS 5020 – Disasters: Concepts &amp; Causes</td>
<td></td>
</tr>
<tr>
<td>DEAMS 5030 – Social &amp; Behavioural Dimensions of Disasters</td>
<td></td>
</tr>
<tr>
<td>DEAMS 5051 – Research Design &amp; Qualitative Methods</td>
<td></td>
</tr>
<tr>
<td>DEAMS 5052 – Quantitative Research Methods</td>
<td></td>
</tr>
</tbody>
</table>


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**Degree Requirements**

**Courses:**

Students must successfully complete 24 course credits including the following:

---

**Master’s Degree by Major Research Paper**

---

**Core required courses: 6 credits**

DEMS 5020 3.0: Disasters: Concepts and Causes/Same as Environmental Studies 6401 3.0
DEMS 5030 3.0: Social and Behavioural Dimensions of Disasters

**Six additional credits in research methods:**

DEMS 5051 3.0: Research Design and Qualitative Research Methods **AND**
DEMS 5052 3.0: Quantitative Research Methods

In consultation with the student’s supervisor, alternative 6 credits research methods course(s) from other graduate programs in the Faculty of Graduate Studies may be acceptable.

**Twelve additional credits selected in consultation with the student’s advisor, six of which must be from courses within the MDEM program.** Other courses may be selected, in consultation with the student’s advisor, from appropriate graduate courses offered across the university based on student’s field of specialization including the following listed below. Normally these courses are from one of five broadly defined areas of study, as listed in the section master’s degree by course work below. **Other very important program requirement:** participation in at least one of the program’s annual simulation exercises.
Major Research Paper (MRP): Candidates for the Master of Disaster & Emergency Management may be granted approval to write a major research paper on an approved topic. Topics can either be a critical evaluation and synthesis of the current state of knowledge and research within a defined area of study or may focus on a specific research topic in depth. Papers must comprise original material of scholarly nature, demonstrate that the student is capable of independent research and critical analysis and be of publishable quality. The major research paper should be between 80-100 pages. Please see Annex 1 for a template for the structure of the MRP proposal and MRP title page. The paper will be supervised by a full member of the graduate program and graded on a pass/fail basis by a committee composed of the student’s supervisor and one other faculty member (a second reader) who has not been involved in the major research paper process.

**If you choose to do an MRP and the work requires human participation, you will be required to follow research ethics procedures detailed here: http://gradstudies.yorku.ca/current-students/thesis-dissertation/research-ethics/**

***As part of the research ethics process, you should complete the TCPS 2 Tutorial available here: http://www.pre.ethics.gc.ca/eng/education/tutorial-didacticiel/***

**MASTER'S DEGREE BY COURSE WORK**

The program is offered on a full-time and part-time basis. The recommended time to completion is 4 terms for full-time students and 8 terms for part-time students.

**Courses**

Students must successfully complete 30 course credits including the following:

**Core required courses: 6 credits**

DEM 5020 3.0: Disasters: Concepts and Causes / Same as Environmental Studies 6401 3.0
DEM 5030 3.0: Social and Behavioural Dimensions of Disasters

**3 additional credits in research methods from either:**

DEM 5051 3.0: Research Design and Qualitative Research Methods OR DEM 5052 3.0: Quantitative Research Methods

In consultation with the student’s supervisor, an alternative 3 credits research methods course from other graduate programs in the Faculty of Graduate Studies may be acceptable.

**21 additional credits:** 12 (minimum) of which must be from courses within the MDEM program. Other courses may be selected, in consultation with the student's advisor, from appropriate graduate courses offered across the university based on the student's field of specialization including the following listed below.

**Optional/Elective Courses**

The courses we have listed below that you can take within other graduate programs are only recommended courses, you can choose other ones if you wish. Please see Annex 2 for DEMS course descriptions. Also, note that some of the courses listed below from other faculties are not offered every term. Please refer to the graduate course schedule to look up class dates / times. Normally these courses are from one of five broadly defined (unofficially) areas of study:

1) **Natural, Technological and Human–induced Disasters**

GS/DEM 5010 3.0: Advanced Disaster and Emergency Management
GS/DEM 5040 3.0: Natural Disasters
GS/DEM 5053 3.0: Topics in Business Continuity
GS/DEM 5060 3.0: Terrorism Studies 1
GS/DEM 5070 3.0: Terrorism Studies 2
GS/DEM 5081 3.0: Applied Topics in Disaster and Emergency Management
GS/DEM 5082 3.0: Medical and Public Health Issues for Non-Medical Personnel
GS/DEM 5710 3.0: Critical Infrastructure Protection
GS/DEM 5080 6.0: Disaster and Emergency Management Practicum

2) **Public Safety and Security**

GS/DEM 5080 6.0: Disaster and Emergency Management Practicum
GS/DEM 5081 3.0: Applied Topics in Disaster and Emergency Management
GS/DEM 5082 3.0: Medical and Public Health Issues for Non-Medical Personnel
GS/DEMS 5710 3.00: Critical Infrastructure Protection
GS/DEMS 5060 3.00: Terrorism Studies 1
GS/DEMS 5070 3.00: Terrorism Studies 2
ES/ENVS 5068//GS/CMCT 5306 3.00: Global Justice and Humanitarian Internationalism
GS/DEMS 6070 3.00: Disasters and Ethics

3) Environmental Issues
   GS/DEMS 5040 3.00 Natural Disasters
   ES/ENVS 6156 3.00 Critical Theory of International Development
   ES/ENVS 6175 3.00 Global Environmental Politics
   ES/ENVS 6149 // GS/CMCT 6120 3.00 Culture and the Environment
   ES/ENVS 5103 3.00 Nature and Society
   ES/ENVS 5061 3.00 Environmental Law & Justice
   ES/ENVS 5016 3.00 Protected Area Management
   GS/SOCI 6315 3.00 Cultural Politics of Environment and Development II: Environmental Issues

4) Technology
   GS/DEMS 5010 3.00 Advanced Disaster and Emergency Management
   GS/ESS 5420 3.00 Advanced Geospatial Information Technology
   GS/GEOG 5050 3.00 Geographical Information Systems and Spatial Analysis
   GS/GEOG 5015 3.00 Remote Sensing & Image Processing for Geographical Analysis and Environmental Monitoring

5) Risk, Vulnerability and Capacity
   GS/DEMS 5010 3.00 Advanced Disaster and Emergency Management
   GS/DEMS 5053 3.00 Topics in Business Continuity
   ES/ENVS 5124 3.00 Development Studies
   ES/ENVS 6137 3.00 Women, Development and Globalization
   GS/POLS 5245 3.00 Gender and International Relations
   GS/GEOG 5209 3.00 Masters Seminar in Critical Human Geography
   GS/ADMS 6800 3.00 Global Mindsets and People Management
   GS/SOCI 6310 3.00 Environmental Sociology
   ES/ENVS 6165 3.00 Land Use Planning Law
   ES/ENVS 6179 3.00 Climate Change: Science and Policy

Also, you can take up to two courses outside of our program or in another Ontario University. You can do a course search for courses in other graduate programs on the York website or on the Faculty of Graduate Studies (FGS) website where all the graduate programs are listed (http://gradstudies.yorku.ca/current-students/regulations/courses-grading/). You will need permission to take graduate level courses outside of the York MDEM program or within another university in Ontario; the forms to be used are attached and are to be submitted to the Graduate Program Assistant (GPA).

Form for taking a course in another Graduate Program at York: http://gradstudies.yorku.ca/files/2014/08/course-program-other.pdf
Form for courses in another Ontario University: http://gradstudies.yorku.ca/files/2014/06/ovgs-application.pdf

Institute for Social Research (ISR)

The Institute for Social Research (ISR) offers a number of short courses on topics including social research and statistics. These, although not for credit, can aid with studies in the MDEM program and help students improve their research skills.
Website: http://www.isr.yorku.ca/
The Practicum

Through the MDEM program, the Emergency Management Practicum course (GS/DEMS 5080 6.00) allows students to gain a practical element in the field. You must enrol in it for your first Winter term by submitting the Student Commitment Form (Annex 2) if interested in taking it but you do not normally start the placement until the Summer. In order to complete the course and gain 6 credits, a total number of 220 hours must be fulfilled at the placement. The distribution of hours per week / days is decided between the employer and the student.

Depending on which areas students are most interested, there are a number of sectors in which students can seek placements. Examples of organizations that have taken on students from the MDEM program in the past:

> The Canadian Red Cross
> Fire Services
> The City of Brampton
> Meyers Norris Penny
> MTS Allstream
> Toronto Transit Commission (TTC)

An advantage of taking the Internship course in addition to building networks is that in some situations, placement organizations may wish to hire their intern once their degree is complete.

York International Internship Program

The YIIP provides both York undergraduate and graduate students a non-credit opportunity to apply their academic knowledge to an international work environment and enhance their job-related skills in an international and intercultural setting. York University offers funding for successful international internship applicants.

Website: [http://yorkinternational.yorku.ca/intern-abroad/](http://yorkinternational.yorku.ca/intern-abroad/)

Duties and Responsibilities

> Graduate Assistant (GA)

A stipend may be paid to a full–time degree candidate for various types of activity. The duties of a graduate assistant may include participation in a practicum, as an apprentice in a laboratory or applied setting, library work for the department or for a research group (normally in cases where it is possible for students to make small but constructive contributions to group research projects), administrative, clerical and research work. Students may apply for GA positions through the normal posting process as identified in the CUPE 3903 Unit 3 Collective Agreement. GA funding will be in addition to the Fellowship and available to students who are not working more than 10 hours per week on campus.

> Research Assistant (RA)

RAs are graduate students registered as full-time who receive financial assistance from or through York University for research or academic activities which are predominantly for the purposes of advancing the students’ progress towards fulfilment of their program and degree requirements. They are not affiliated with CUPE 3903.

For information on your funding model, visit: [http://gradstudies.yorku.ca/graduate-funding-model/](http://gradstudies.yorku.ca/graduate-funding-model/)

Finances

The MDEM program fees are paid per term; therefore the number of courses students take will not be a factor in the fees per term. The fees do vary, however, depending on whether students are domestic or international, and between full time and part time students. The table below summarizes the fees for September 2016, although please note that fees may vary from term-to-term/year-to-year.

This information can be viewed in more detail at the following website: [http://gradstudies.yorku.ca/current-students/](http://gradstudies.yorku.ca/current-students/)

<table>
<thead>
<tr>
<th>Status / Program</th>
<th>Domestic 1 Term</th>
<th>Domestic 2 Terms</th>
<th>International 1 Term (Masters)</th>
<th>International 1 Term (PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part-time</td>
<td>$922.83</td>
<td>$1,845.66</td>
<td>$3,262.82</td>
<td>$3,125.32</td>
</tr>
<tr>
<td>Full-time</td>
<td>$1,845.68</td>
<td>$3,691.36</td>
<td>$6,525.67</td>
<td>$6,250.67</td>
</tr>
</tbody>
</table>
Scholarships are usually given out to students with outstanding academic achievements; bursaries, awards and loans focus more on financial assistance on the basis of students’ need. There are different criteria for eligibility in terms of awards, loans, bursaries and scholarships. Students are encouraged to look through these criteria and apply for these accordingly. For more information on awards, scholarships and bursaries, visit [http://gradstudies.yorku.ca/current-students/student-finances/funding-awards/](http://gradstudies.yorku.ca/current-students/student-finances/funding-awards/)

Please note that when applying for any financial scholarships or assistance, there are deadlines associated with these. Students are therefore encouraged to read up on the eligibility criteria and deadlines early on through the term to best prepare themselves for when to submit information. Furthermore, York University offers financial advising for students simply seeking advice on how to handle their finances in terms of fees. There is online help as well as a number of informational brochures available under the “Financial Advising” section at the above link.

### New Students

A computer lab, DB 2004 (Victor Philip Dahdaleh Building), is dedicated to MDEM students. When there are no classes being held in that lab, students can use the lab at any time and it can only be accessed using an access card distributed to each MDEM student. The access cards can be picked up from the office of the Graduate Program Assistant (GPA) in 209 Atkinson.

Students have the option to add a graduate diploma to their MDEM degree and complete both simultaneously; the link attached below displays all the diploma options. Students would have to choose a diploma related to their field of interest. If interested in any of these, students can contact the department that holds the diploma to see what the registration requirements are. The diplomas are not part of the MDEM degree therefore the administrative aspects for these diplomas will need to be organized with the respective faculty.

#### Examples of possible diplomas:

**Website:** [http://futurestudents.yorku.ca/graduate/programs](http://futurestudents.yorku.ca/graduate/programs)

Below is some useful information that you should familiarize yourself with:

**Faculty of Graduate Studies** (use this site to familiarize yourself with important dates and external scholarship deadlines as well as academic requirements/regulations to maintain or graduate programs: [http://gradstudies.yorku.ca/](http://gradstudies.yorku.ca/))

**York e-mail/passport York:** [http://gradstudies.yorku.ca/current-students/student-services/computing/](http://gradstudies.yorku.ca/current-students/student-services/computing/)

**Canadian Union of Public Employees (CUPE)**
CUPE 3903 is the York chapter of CUPE, a national union representing workers in areas including health care, education, social services, transportation and more. CUPE has over 2200 local branches. For more information about the specific benefits you are entitled to through the GA-ship, please refer to the CUPE 3903 website: [3903.cupe.ca](http://3903.cupe.ca) or contact someone from the CUPE office, also listed on the website.

**YU card:** This card can be used to access the library/printing and other areas at York: [http://yucard.info.yorku.ca/](http://yucard.info.yorku.ca/)

**Free printing for graduate students:** [http://computing.yorku.ca/students/printing/printing-allocation-for-registered-graduate-students/](http://computing.yorku.ca/students/printing/printing-allocation-for-registered-graduate-students/)

**Map of Keele Campus:** [http://maps.info.yorku.ca/keele-campus/](http://maps.info.yorku.ca/keele-campus/)

The **Writing Centre** offers individual instruction in all aspects of writing: [http://gradstudies.yorku.ca/current-students/enhancing-your-experience/writing-centre/](http://gradstudies.yorku.ca/current-students/enhancing-your-experience/writing-centre/)

**York University Libraries:** [www.library.yorku.ca/web/](http://www.library.yorku.ca/web/)

Your **liaison librarian** for this program is Peter Duerr, [pduerr@yorku.ca](mailto:pduerr@yorku.ca), 416-736-2100 x88810

**For more information visit** [http://www.library.yorku.ca/web/about-us/contact-us/liaison-librarians/liaison-information-for-faculty-graduate-students/](http://www.library.yorku.ca/web/about-us/contact-us/liaison-librarians/liaison-information-for-faculty-graduate-students/)
Future Career Opportunities

Students graduating from the MDEM program have a wide spectrum of areas in which they could seek employment including:
- Private sector companies
- Public sector managers (different levels)
- Not-for-profit organizations (NGOs)
- Local, provincial or federal government emergency response program managers / planners
- Canadian Military
- Firefighters
- RCMP, provincial, municipal police force
- Ambulance, paramedic and health sector
- Risk Management and Business Continuity
- Insurance and Disaster Recovery
- International Humanitarian Assistance

Associations, Certifications, Conferences and More

ASSOCIATIONS

Disaster and Emergency Management Students Association (DEMSA): [https://www.facebook.com/groups/133163330079052/](https://www.facebook.com/groups/133163330079052/)

DEMSA consists of a group of students in the MDEM program at York University whom connect through social media sites like LinkedIn and Facebook to stay up to date on current DEM topics and occasionally host events. New students in the MDEM program are encouraged to join DEMSA. If you sign up for Facebook you can become a member and join the discussions.

Disaster and Emergency Program (DEM)

DEM is a moodle group which shares information regarding job and other important issues for students from DEM faculty. Almost all past and present students are a member. To join please go to: [https://learn.yorku.ca/moodle/course/view.php?id=199](https://learn.yorku.ca/moodle/course/view.php?id=199) and enroll yourself using this enrollment key: bama_dem_laps

Canadian Risk and Hazards Network (CRHNet): [www.crhnet.ca/](http://www.crhnet.ca/)

The CRHNet is a not-for-profit organization which focuses on disaster risk reduction and emergency management in Canada. The network creates a space for academics and practitioners in the field to share knowledge and resources in order to facilitate policy formulation and adoption of best practices within Canada. The CRHNet also hosts an annual symposium.


The IAEM, which has more than 5,000 members worldwide, is an international non-profit organization of emergency management professionals. Membership includes local, state and federal emergency managers, homeland security officials, educational, military, private, non-governmental and volunteer practitioners. The vision of the IAEM is to be recognized as a premier international organization of emergency management professionals. Their mission is to serve its members by providing information, networking and professional opportunities, and to advance the emergency management profession.


The OAEM promote, support and enhance the profession of emergency management in Ontario. With nearly 500 members, OAEM is the largest and most successful emergency manager’s professional association in Canada. Its success is the result of its networking, training and professional development programs. The OAEM launched OAEM-Online to provide enhanced services to its members. OAEM-Online will enable OAEM to deliver existing and new programs to its members using state of the art networking and collaboration tools.


The DRI provide international recognized training and education services, certification and standards for Canada’s business continuity planning/disaster recovery profession.


The DRIE is a non-profit association of professionals dedicated to the exchange of information on all aspects of planning for an emergency or a disruption to normal operations. DRIE’s goal is to provide an accessible, informal, open forum for the exchange of information and knowledge related to the many variations of emergency preparedness.
CERTIFICATIONS

Certified Emergency Manager (CEM)
The International Association of Emergency Managers created the certification program for emergency managers to raise and maintain professional standards; it is a program to certify achievements within the profession. Any emergency management professional who meets requirements is welcome to participate. Explore www.iaem.com for details.

Incident Management System (IMS): http://training.emergencymanagementontario.ca/TPOnline/TPOnline.dll/EMO_Public_Courses
IMS certifications are offered in a series of courses including introductory (IMS-100), basic (IMS-200), intermediate (IMS-300) and advanced (IMS-400) levels. These are recommended for emergency managers and are offered through the Office of the Fire Marshall, or might be available through York University as well. Please contact staff in the MDEM program for further information. https://training.emergencymanagementontario.ca/TPOnline/TPOnline.dll/EMO_Public_Course/COURSENO=COUR2011070415145004500149

Basic Emergency Management (BEM)
BEM is a provincial training which provides an overview of emergency management in Ontario and helps students gain understanding in tactical and strategic components of mitigation / prevention, preparedness, response and recovery. This certification is also offered by the Ontario Ministry of Community Safety & Correctional Services, and may be available through York University. Please contact staff in the MDEM program for further information.

ABCP certification supports entry-level proficiency with some knowledge in business continuity planning, but who have not yet acquired a great deal of experience in the field. Starting your career path in Business Continuity Management through ABCP certification demonstrates to your peers, colleagues and management that professionalism within the industry is your goal.

DISASTER DATABASES

The EM-DAT contains essential core data on the occurrence and effects of over 18,000 mass disasters in the world from 1900 to present. The database is compiled from various sources, including UN agencies, non-governmental organisations, insurance companies, research institutes and press agencies.

The CDD contains detailed disaster information on more than 1000 natural, technological and conflict events (excluding war) that have happened since 1900 at home or abroad and that have directly affected Canadians.

ANNUAL CONFERENCES

World Conference on Disaster Management (WCDM): http://www.wcdm.org/
WCDM is the largest conference of its kind in North America. It takes place in Toronto every summer. Volunteer opportunities for students are available to enhance your experience, exposure, and networking.

The IAEM hosts an annual conference where current trends and knowledge is shared. This conference attracts high-profile speakers and creates a collaborative environment for professionals.

CRHNet Annual Symposium: http://crhnet.ca/
CRHNet Annual Symposia are held at venues across Canada for all concerned regions and communities to get an opportunity to take part in the Network and its activities. The symposium structure will allow you the opportunity to participate in the growth of a professional community in Canada devoted to risk reduction.

The Global Platform on Disaster Risk Reduction (GPDRR): http://www.unisdr.org/we/coordinate/global-platform
It is a global biennial event, established in 2007, which is hosted by a different country each time. The event is managed by the UN International Strategy for Disaster Reduction, and at this conference, information is exchanged on ways to improve implementing disaster risk reduction practices.

The International Disaster and Risk Conference (IDRC): http://www.idrc.info/
The IDRC hosts workshop style events throughout the conference, and is one of the 3 pillars of the Global Risk Forum (GRF) Davos. The GRF Davos is an international organization based in Davos, Switzerland dedicated to knowledge exchange on risk relat-
**FULL-TIME FACULTY**

<table>
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<tr>
<th>Faculty</th>
<th>Details</th>
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<tr>
<td><strong>Ali Asgary</strong></td>
<td>Dr. Ali Asgary joined York University’s Disaster &amp; Emergency Management program in July 2005. Prior to joining York University, he was assistant professor at the department of Applied Disaster and Emergency Studies at Brandon University (Manitoba, Canada). Ali has in the past been the president of the Canadian Chapter of the International Association of Emergency Managers (IAEM–Canada). <strong>Expertise:</strong> Urban Planning/Design. Business Continuity, GIS and IT Applications in DEM <strong>Education:</strong> Ph.D., in Urban Design and Regional Planning, Newcastle Upon Tyne University; MA in Economics and Development Planning, University of Tehran; BA in Economics, University of Tehran.</td>
</tr>
<tr>
<td><strong>David Etkin</strong></td>
<td>David Etkin is an associate professor of Disaster and Emergency Management at York University. Prior to that, he worked for 28 years with the Meteorological Service of Canada in a variety of fields, including operations and research. He has been an associate member of the School of Graduate Studies at the University of Toronto since 1994, doing research on natural hazards, teaching and supervising graduate students. In 2003 he was awarded the Environment Canada Award of Excellence. Prof. Etkin has participated in three international hazard projects and was one of only 2 non-Americans to assist with their 2nd national assessment of natural hazards. He has been principal investigator for a NATO short-term project on natural hazards and disasters and the Canadian Assessment of Natural Hazards Project that resulted in the book ‘An Assessment of Natural Hazards and Disasters in Canada,’ which he edited. <strong>Expertise:</strong> Disaster and Emergency Management, Risk Assessment, Climate Change, Natural Hazards <strong>Education:</strong> M.Sc., York University; B.Ed., University of Toronto; B.Sc., University of Toronto.</td>
</tr>
<tr>
<td><strong>Niru Nirupama</strong></td>
<td>Dr. Nirupama has been with the Disaster &amp; Emergency Management Program since 2005 and was one of the founder faculty members of the program. Dr. Nirupama has been actively teaching and researching in disaster risk management; business continuity; natural disasters; and multi-criteria decision making using fuzzy logic concept. She is also a certified (DRI Canada) Associate Business Continuity Professional. <strong>Expertise:</strong> Natural Hazards, Disaster Risk Management, Business Continuity Planning, Multi-criteria Decision Support System, GIS/Remote Sensing <strong>Education:</strong> Ph.D., Water Resources Engineering, Kyoto University, Japan; Master of Hydrology, Indian Institute of Technology Roorkee, India; M.Sc., Statistics, Indian Institute of Technology Kanpur, India.</td>
</tr>
<tr>
<td><strong>Ken McBey</strong></td>
<td>Dr. Kenneth McBey is a professor of Human Resources and Disaster &amp; Emergency Management at York University. His research and teaching draw on his earlier career as an infantry officer in the Canadian army, where he rose to the rank of Lieutenant-Colonel and commanding officer of the 48th Highlanders of Canada. Dr. McBey has served as director of York University’s graduate and undergraduate Human Resources Management programs, and he was the founding faculty member of York’s Disaster &amp; Emergency Management program. He has been a visiting professor at the Aberdeen Business School and the Graduate Programs in Human Resources and in Management at the University of Aberdeen, and Robert Gordon University, Scotland, the Australian National University, and the University of Otago, New Zealand. Professor McBey is active in a wide variety of community and voluntary associations, and he serves on the boards of several not-for-profit organizations. <strong>Expertise:</strong> Management &amp; Leadership, Human Resources, Organizational Behaviour, Disaster and Emergency Management <strong>Education:</strong> Ph.D., Schulich School of Business, York University; MBA, Schulich School of Business, York University; B.Ed., University of Toronto; BA in Political Economy, University of Toronto.</td>
</tr>
<tr>
<td><strong>Walter Perchal</strong></td>
<td>Lieutenant Colonel (Ret) Walter Perchal has taught a broad range of courses at York University. He currently serves as graduate and undergraduate faculty in the Disaster and Emergency Management programs. At the University, Walter established The Centre of Excellence in Security, Resilience and Intelligence at the Schulich Executive Education Centre, where he currently services at the Program Director. Over the course of his military service he trained in various specialties including CBRNE. As a result of this, he served an observer / instructor for the American “Red Dragon” exercises of the course of a number of years and commanded the Domestic Response Unit. In his regular duties he became Commanding Officer of The Royal Regiment of Canada. Later he was appointed Special Advisor to the Canadian Army Commander. Walter is on the board of directors for a number of corporations, and is the current Chair of both: The Distinguished Scholars of Canada and The National Defence Foundation of Canada. <strong>Experience:</strong> International Change, National/International Security, Terrorism and Counter Terrorism</td>
</tr>
<tr>
<td><strong>PART TIME FACULTY</strong></td>
<td><strong>PART TIME FACULTY</strong></td>
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</tr>
<tr>
<td>Dr. David Baumken</td>
<td>Kaz Higuchi</td>
</tr>
<tr>
<td>David Baumken is a professional consultant and a long-standing designated electricity expert of NATO's Industrial Resources and Communications Services Group of Civil Emergency Planning and is currently developing national energy resilience guidelines. He has 40 years of service with Hydro One and has extensive national and international experience in developing regulations, standards and guidelines for protecting and enhancing the resiliency of North America's electricity system and was involved in numerous severe weather and technological emergencies.</td>
<td></td>
</tr>
<tr>
<td>Education: M.DEM Disaster and Emergency Management, BA (Hons) Business Administration, York University</td>
<td></td>
</tr>
<tr>
<td>Kaz Higuchi worked with the Atmospheric Environment Service as a weather forecaster, which was followed by a position in Edmonton with the Arctic Weather Centre. Further to this, Kaz studied atmospheric physics at the University of Toronto, and worked with Environment Canada as a research scientist, focusing on global biochemical cycle of carbon and climate modeling/data analysis and diagnostics. Kaz became the head of the carbon cycle modeling group in 2012 before joining an adjunct professorial position with the Faculty of Environmental Studies and Climate Change, Complex Systems Research, Weather events and DR Strategies, Systems Thinking.</td>
<td></td>
</tr>
<tr>
<td>Education: Ph.D., University of Toronto, M.Sc., University of Toronto, B.Sc., Carleton University.</td>
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</tr>
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<table>
<thead>
<tr>
<th><strong>FULL-TIME FACULTY— School of Administrative Studies</strong></th>
<th><strong>PART TIME FACULTY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelly Thomson</td>
<td>Dr. Dr. Jack L. Rozdilsky is an Associate Professor of Disaster and Emergency Management at York University in Toronto, Canada. His work attempts to combine disaster-related scholarship with emergency management and homeland security practice. Prior to joining York University, Dr. Rozdilsky has engaged in research, teaching, and service activities while holding emergency management faculty positions at both the University of North Texas and Western Illinois University. He has also worked as a hazard mitigation planner and he has earned various DHS-FEMA professional certifications. Dr. Rozdilsky's post-disaster field research experience began with exploring disaster recovery from 1993 Mississippi River floods. He has since explored a variety of disaster-related circumstances, including the Montserrat volcanic crisis, Hurricane Katrina, 9/11, tornado disasters, the Ferguson civil disturbances, and the 70th anniversary of the first use of the atomic bomb.</td>
</tr>
<tr>
<td>Expertise: Comprehensive EM, Homeland security &amp; terrorism, All hazards mgmt., post disaster field research</td>
<td></td>
</tr>
<tr>
<td>Education: Ph.D. in Resource Development and Urban Studies, Michigan State U; MA in Environmental Studies, U Illinois at Springfield; BS in Environmental Science and BS in Geology, Bradley University.</td>
<td></td>
</tr>
<tr>
<td>Thomson is an Assistant Professor in the School of Administrative Studies, York University. She uses social constructivist frameworks and qualitative methods to analyze organizing processes in a variety of domains. She is engaged in research examining how professionals, patients and their families organize health care and how adverse events are reported. She also studies how entrepreneurs engage with other actors (e.g. regulators, financiers, associations) to contest existing structures and constitute new ones as they create new opportunities, fields and industries. Finally, she looks at processes of change in fields.</td>
<td></td>
</tr>
<tr>
<td>Expertise: Sustainability Management, Organizational Theory, Social Movement Theory</td>
<td></td>
</tr>
<tr>
<td>Education: Health Care Coordination, Ph.D., Schulich/York University, MA, University of Manitoba, BA, McGill.</td>
<td></td>
</tr>
<tr>
<td>Dr. Jack L. Rozdilsky is an Associate Professor of Disaster and Emergency Management at York University, Toronto, Canada. His work attempts to combine disaster-related scholarship with emergency management and homeland security practice. Prior to joining York University, Dr. Rozdilsky has engaged in research, teaching, and service activities while holding emergency management faculty positions at both the University of North Texas and Western Illinois University. He has also worked as a hazard mitigation planner and he has earned various DHS-FEMA professional certifications. Dr. Rozdilsky's post-disaster field research experience began with exploring disaster recovery from 1993 Mississippi River floods. He has since explored a variety of disaster-related circumstances, including the Montserrat volcanic crisis, Hurricane Katrina, 9/11, tornado disasters, the Ferguson civil disturbances, and the 70th anniversary of the first use of the atomic bomb.</td>
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<tr>
<td>Education: Ph.D., University of Toronto, M.Sc., University of Toronto, B.Sc., Carleton University.</td>
<td></td>
</tr>
<tr>
<td>James Kilgour is currently the Manager, Office of Emergency Management for the City of Toronto. James brings expertise from the government, private and non-profit sector where he has lead progressive positions in developing, implementing and maintaining EM and business continuity programs. He has responded to a number of pre-planned large scale events as well as a number of local emergencies that involved multi-agencies and levels of government. His emergency management interests include exercise design, risk assessment, standards and performance measurement/management. James is a Community EM Coordinator (CEMC) and Certified Business Continuity Professional (CBCP). James has been involved with the BDEM program since 2010 where he taught ADMS 2700 Fundamentals of Emergency Management.</td>
<td></td>
</tr>
<tr>
<td>Experience: Community Emergency Management Program Management, BCP, Risk Assessments</td>
<td></td>
</tr>
<tr>
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<th><strong>PART TIME FACULTY</strong></th>
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<tr>
<td>Aida Mamuji</td>
<td>Dr. Jack L. Rozdilsky is an Associate Professor of Disaster and Emergency Management at York University, Toronto, Canada. His work attempts to combine disaster-related scholarship with emergency management and homeland security practice. Prior to joining York University, Dr. Rozdilsky has engaged in research, teaching, and service activities while holding emergency management faculty positions at both the University of North Texas and Western Illinois University. He has also worked as a hazard mitigation planner and he has earned various DHS-FEMA professional certifications. Dr. Rozdilsky's post-disaster field research experience began with exploring disaster recovery from 1993 Mississippi River floods. He has since explored a variety of disaster-related circumstances, including the Montserrat volcanic crisis, Hurricane Katrina, 9/11, tornado disasters, the Ferguson civil disturbances, and the 70th anniversary of the first use of the atomic bomb.</td>
</tr>
<tr>
<td>Expertise: humanitarian assistance; international disaster response; coordination; public policy; public administration; interdepartmental collaboration; Open Data</td>
<td></td>
</tr>
<tr>
<td>Education: Ph. D., Public Administration, University of Ottawa; M.A. Globalization Studies, McMaster University; B.Sc. (honours), Human Biology and Bioethics, University of Toronto.</td>
<td></td>
</tr>
</tbody>
</table>
**PART-TIME FACULTY**

Lilia Malkin Dubins is an Emergency Physician currently working full-time in the Greater Toronto Area in Ontario, and has pursued education in the areas of Family Medicine and Emergency Medicine training, at McGill University.  
**Education:** MA in Disaster and Emergency Management, York University, M.D., University of Toronto, B.Sc., in Human Biology, University of Toronto.

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**GRADUATE PROGRAM ADMINISTRATIVE SUPPORT**

**GRADUATE PROGRAM ASSISTANT**  
Sabina completed her undergraduate degree in Sociology at York University in 2005 and then shortly after started working at York full-time in January of 2006. She has been Graduate program assistant for the MDEM program since its start in 2007 and since then has taken on a second graduate program as well as Master of Financial Accountability (MFAc). Sabina looks after all of the administrative related aspects for the program and works closely with faculty and students within the program on an ongoing basis to make sure things are running smoothly on a day to day basis. Sabina is currently on maternity leave until December 2016.

**GRADUATE PROGRAM ASSISTANT (temporary)**  
Subra has completed her Bachelor (B.Ed) and Master of Education (M.Ed). She is currently working as an Acting Graduate Program Assistant for Master of Disaster and Emergency management (MDEM) and for Master of Financial Accountability Program (MFAc). Subra is covering for Sabina Passarelli (Lackner), looking after the administrative related aspects for the program. She works closely with faculty and students within the program on an ongoing basis.

---

**CONTACTS**

**Graduate Program Director**  
David Etkin  
230 Atkinson  
Phone: 416-736-2100x44016  
E-mail: etkin@yorku.ca

**Graduate Program Assistant**  
Subra Shujaat  
209 Atkinson  
Phone: (416) 736-5744  
E-mail: mdemgpa@yorku.ca
FREQUENTLY ASKED QUESTIONS (FAQs)

Who is eligible to apply for the MDEM program?
Students with Undergraduate degrees from various different disciplines can apply. Please contact the program advisor to find out further details.

What is the duration of the MDEM program?
The full time program consists of 4 terms (16 months) and the part time program is 8 terms (32 months)

What are the other requirements for getting into the MDEM program?
The program requires a B+ average in your last 2 years on undergraduate study to be eligible to apply, but you can still apply to the program with a B average. Acceptance depends on the applicant pool. Students that are admitted with no disaster & emergency management background or courses are required to partake in an online course covering the content of three of our undergraduate DEM courses in the summer prior to starting the program. Details regarding the online course are announced after new admission offers are finalized. The application package requires a sample of written work that can be anything to demonstrate the student’s writing capabilities.

How are students chosen for the MDEM Program?
The MDEM program typically accepts 25-30 students once a year, with the program starting in September. Of these the majority are domestic students, augmented by a few international students. Please note there is no guaranteed funding for international students. If accepted into the program, international students can apply for scholarships externally.
New Program Under Development:
PhD in Disaster and Emergency Management

The program is intended to be an academic program that integrates scholarly activity and professional practice in DEM. It will provide a doctoral degree that imparts knowledge, skills, and abilities necessary for senior DEM professionals, DEM faculty and researchers. The Curriculum will emphasize upon DEM as a field of study and profession, including in-depth knowledge of natural and human-induced (e.g., technological, terrorism) disasters; human and physical consequences of such events; and the means to mitigate, prevent, prepare for, respond to and recover from the impact of such events. Graduates will demonstrate proficiency in Research Methods and Analysis; Disaster theory; Crisis management; Hazard risk management; Risk analysis; Disaster and hazards planning and preparedness; and Disaster risk reduction. The program will impart the importance of values central to DEM, including professional accountability, personal integrity, ethics, social responsibility, and citizen responsiveness.
MAJOR RESEARCH PAPER PROPOSAL

Your name

Master in Disaster & Emergency Management

York University

Date

Supervisor’s name

Title

General Subject

Example: Disaster and emergency management and planning in the First Nations communities of Ontario

Research topic/question

Example: Are current emergency plans and procedures for the First Nation communities culturally appropriate?

Theoretical framework

Example: This research will use theoretical disaster models to identify the progression of people’s vulnerability, their root causes, and the progress made thus far in establishing emergency management for the First Nations in Ontario.

Justification

Example: Canadian history and interaction with First Nations are known to have created vulnerable living environments and difficult relationships over decades. Policy decisions have had a long history of disappointments and mistrust in the authority among the First Nations. There is also a concern of differential processes and policy for the First Nations in comparison with all the residents of Ontario.

Method

Example: Literature review, historical information, and current Provincial and Federal documents and policy will be examined to understand the issue at a deeper level. Interviews (about 10) with First Nations community members will be conducted. A qualitative analysis will be carried out to extract themes and apply theoretical disaster models.

Sources

Example: Historical records; Government documents from the EMO and Indian and Northern Affairs Canada; Scholarly articles in journals and magazines.

Bibliography


Work Plan – Example:

<table>
<thead>
<tr>
<th>Description</th>
<th>Date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literature review/survey</td>
<td></td>
</tr>
<tr>
<td>Interview questionnaire submission for ethics approval</td>
<td></td>
</tr>
<tr>
<td>Selection of participants and conducting interviews</td>
<td></td>
</tr>
<tr>
<td>Transcribing of interviews and analyzing the data</td>
<td></td>
</tr>
<tr>
<td>Final paper</td>
<td></td>
</tr>
</tbody>
</table>
ANNEX 2 – DEMS 5080 Disaster & Emergency Management Practicum

Student Commitment Form

(To be signed and submitted to the course director)

I _______________________ (name of student) agree and commit to the following:

1. To keep the course director apprised of all my applications for practicums, and their outcomes.

2. To ensure that the host organization fills out and submits a Field Placement Request Form, unless otherwise indicated by the course director.

3. To complete and submit an Information Summary Sheet as soon as the placement begins.

4. To act in a professional manner at all times, while at my host organization.

5. To inform the course director immediately, of any problems or issues that arise related to my placement.

6. Not to begin the placement until the Agreement has been signed by both parties.

7. To carefully go through the course Moodle site, to read all the information on it, and to submit all assignments in a timely manner via Moodle.

_________________________   __________________
Signature                  Date
ANNEX 3 – Course Description (MDEM)
Offerings can be found at https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm under Course Descriptions - Disaster and Emergency Management (DEMS).

GS/DEMS 5010 3.00 Advanced Disaster and Emergency Management
This course explores the applications of advanced theory, methods and technologies in disaster and emergency management. Disaster and emergency management decision and planning methods and models, decision support systems, information systems and disaster databases, geographic information systems, remote sensing, various disasters and emergency management software and their applications are discussed.

GS/DEMS 5020 3.00 Disasters: Concepts and Causes
This course will focus on the risk to society from hazards and disasters, and how society adapts to those risks. Course content will not tend to focus on the hazards themselves, but rather on disaster theory and the processes within society and the environment that creates vulnerability. An interdisciplinary and mainly social science approach with a global perspective will be taken, but with some emphasis on Canadian content. General topics will include (1) disaster data and theory, (2) patterns of risk, (3) processes that create vulnerability & resilience, (4) human response and coping mechanisms, (5) impacts of disasters, and (6) case studies of disasters.

GS/DEMS 5030 3.00 Social and Behavioural Dimensions of Disasters
This course examines social and behavioural dimensions of human interactions before, during and after emergencies and disasters, including behavioural myths and realities; linkages between individuals, families, groups, organizations, community social systems, and various levels of government; social vulnerability and the disproportionate impact of disasters upon various societal groups.

GS/DEMS 5040 3.00 Natural Disasters
This course focuses on natural processes including geological, hydrological, meteorological, and biophysical and how they impact people, property, and the environment around the world. Students will learn the causes and physical dynamics of various natural hazards such as earthquakes, tsunamis, hurricanes, floods, extreme weather, climate change, and pandemics to name a few. Course credit exclusion: LE/ESSE 1410 6.00: Natural, Technological and Human-induced Disasters.

GS/DEMS 5051 3.00 Research Design and Qualitative Research Methods
This course provides students with an introduction to philosophical bases of research design as well as a practical introduction to qualitative methods. Students will gain an understanding of the paradigms of research, how to design and evaluate qualitative research and experiment with a range of qualitative methods (i.e., interview, focus groups, observation, archival analysis).

GS/DEMS 5052 3.00 Research Design and Quantitative Methods
Students are provided with a comprehensive knowledge and understanding of various quantitative research methods and their applications in disaster and emergency management. Using statistical methods, students will learn to analyze data and formulate hypotheses and conceptual relationships.

GS/DEMS 5060 3.00 Terrorism Studies I
The purpose of this course is to give the student, a background to, and overview of: terrorism in the 21st Century. It will serve to give students, in the program, an understanding of this element of the threat spectrum. It will further sensitize them to the potential dangers and probabilities that grow out of this area of critical concern.

GS/DEMS 5070 3.00 Terrorism Studies II
The purpose of this course is to give the students, in Part 2, the opportunity to explore: contemporary participants, capabilities and intentions, and, probabilities, from a Canadian perspective. This perspective will ground the threat and its possible consequences in the Canadian context.

GS/DEMS 5080 6.00 Emergency Management Practicum
Placements in the field provide students with the opportunity to apply theories of disaster and emergency management in a variety of organizations within the private, public and NGO sectors.

GS/DEMS 5081 3.00 Topics in Applied Disaster Management
The course explores selected topics in applied disaster and emergency management, as they relate to the theoretical aspects of this subject area.

GS/DEMS 5082 3.00 Medical and Public Health Issues for Non-Medical Personnel
This course addresses the common and important health issues that arise during both sudden and chronic emergencies, for victims and responders.

GS/DEMS 5710 3.00 Critical Infrastructure Protection
This course explores issues related to critical infrastructure protection, including complexity, resilience, criticality and interdependencies, regulatory and legislative requirements, and doctrines. Threats include natural disasters and man-made events including criminal acts, terrorist physical and cyber-attacks.

GS/DEMS 6070 3.00 Disasters and Ethics
This course examines ethical theory as it applies to issues and uncertainties associated with disasters and emergencies. Students will develop an understanding of the ethical decision-making process and moral reasoning. They will explore the moral imperatives associated with emergency management in a variety of contexts, both locally and globally. The emphasis is on applied ethics and the development of moral competence in response to issues, and implications for socially responsive environmental and disaster management.
## ANNEX 4 – Course Schedule 2016-17

### FALL 2016

<table>
<thead>
<tr>
<th>Unit</th>
<th>Course</th>
<th>Cr</th>
<th>Course Title</th>
<th>Day</th>
<th>Hour</th>
<th>Room</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>DEMS</td>
<td>5000</td>
<td>3</td>
<td>Directed Reading</td>
<td>N/A</td>
<td>N/A</td>
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<td>Individual Faculty</td>
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<tr>
<td>DEMS</td>
<td>5020</td>
<td>3</td>
<td>Disaster Concepts and Causes</td>
<td>R</td>
<td>14:30</td>
<td>R S202</td>
<td>David Etkin</td>
</tr>
<tr>
<td>DEMS</td>
<td>5030</td>
<td>3</td>
<td>Social and Behavioral Dimensions of Disasters</td>
<td>T</td>
<td>14:30</td>
<td>ATK 109</td>
<td>Ken McBey</td>
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<tr>
<td>DEMS</td>
<td>5052</td>
<td>3</td>
<td>Research Design and Quantitative Methods</td>
<td>W</td>
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<td>BC 230</td>
<td>Kaz Higuchi</td>
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<tr>
<td>DEMS</td>
<td>5053</td>
<td>3</td>
<td>Topics in Business Continuity</td>
<td>W</td>
<td>19:00</td>
<td>BC 325</td>
<td>Ali Asgary</td>
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<tr>
<td>DEMS</td>
<td>5060</td>
<td>3</td>
<td>Terrorism Studies I</td>
<td>M</td>
<td>11:30</td>
<td>MC 111</td>
<td>Jack Rozdlisky</td>
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<tr>
<td>DEMS</td>
<td>5082</td>
<td>3</td>
<td>Medical and Public Health Issues for Non-Medical Personnel</td>
<td>F</td>
<td>11:30</td>
<td>BC 325</td>
<td>Lilia Dubins</td>
</tr>
<tr>
<td>DEMS</td>
<td>5710</td>
<td>3</td>
<td>Critical Infrastructure Protection</td>
<td>T</td>
<td>11:30</td>
<td>VH 1152</td>
<td>David Baumken</td>
</tr>
<tr>
<td>DEMS</td>
<td>6999</td>
<td>6</td>
<td>Major Research Paper</td>
<td>N/A</td>
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### WINTER 2017

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<th>Unit</th>
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<th>Cr</th>
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<th>Day</th>
<th>Hour</th>
<th>Room</th>
<th>Instructor</th>
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<td>N/A</td>
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<tr>
<td>DEMS</td>
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<td>3</td>
<td>Advanced Disaster and Emergency Management</td>
<td>R</td>
<td>19:00</td>
<td>BC 325</td>
<td>Ali Asgary</td>
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<tr>
<td>DEMS</td>
<td>5020</td>
<td>3</td>
<td>Disaster Concepts and Causes</td>
<td>M</td>
<td>14:30</td>
<td>R N836A</td>
<td>David Etkin</td>
</tr>
<tr>
<td>DEMS</td>
<td>5030</td>
<td>3</td>
<td>Social and Behavioral Dimensions of Disasters</td>
<td>W</td>
<td>16:00</td>
<td>SC 219</td>
<td>David Etkin</td>
</tr>
<tr>
<td>DEMS</td>
<td>5051</td>
<td>3</td>
<td>Research Design and Qualitative Research Methods</td>
<td>T</td>
<td>16:00</td>
<td>BC 323</td>
<td>Kelly Thomson</td>
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### SUMMER 2017

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Confident in the face of Disaster

Acknowledgements: Dr. Niru Nirupama with Graduate Assistants (so far), Harshita Mathur, Sarah Jacobs, Judith Jubril, and Lauren Hébert