First and Foremost: Academic Honesty, Integrity and Cheating
Both NJIT and Rutgers students are expected to follow published guidelines on academic honesty and integrity. You must acquaint yourself with these policies before submitting any assignments. All written work must be original. Violations of NJIT/Rutgers policies will be reported to the Dean of Students at both institutions and may result in failure on a particular assignment, failure in the course, failure in the course and probation, or failure in the course and expulsion. Honor Code violations will be pursued immediately and aggressively.

Course Meetings:
This Course will meet on-line but is also developed for hybrid and face to face delivery.

Instructor:
Michael Chumer, Ph.D.
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Office: GITC 3400
E-mail: chumer@njit.edu
Office Hours (physical and virtual):
Mon. 2 PM - 4:00 PM (Physical)
Tues.: 5 PM-6 PM (Physical)
By Appointment
WEBEX (on line conferences)
Times to be determined

Text and Electronic Syllabus
This document represents the text syllabus for the course. It is to be used with the “electronic syllabus timetable” in Moodle. Together (text and electronic) both combine to give the student an overall syllabus. This text syllabus is narrative and provides general information as well as a general time table. The specific time table along with readings and lectures can be found in the “electronic syllabus timetable”.

Course Description
IS 613
This course is concerned with the development of requirements, the design of the human interaction, and the supporting functionality of any Information System and/or Information Technology related to the complete preparedness lifecycle for emergency, disaster, and crisis situations for government bodies, non profit, and/or private organizations that are concerned with business continuity. The components of the iterative and continuous emergency lifecycle are planning, mitigation, training, alerting, response, recovery, and assessment. These components differ from the basic dimensions of emergency management that have been identified by Homeland security. It will also focus on human and organizational behavior in this environment and how both influence technology functionality approaches to the human interface. The relationships between
systems serving the different phases of the lifecycle and the needs for integration and coordination across the Homeland Security emergency management dimensions are addressed. Those taking IS 613 will be required to write 2 papers during the course.

Projects
IS 613 project work will vary each semester. Some projects will require team collaboration. Other projects will require individual work (not team oriented). This will be determined during the first 4 weeks of the course.

Course Materials

Course Website:
The course materials can be obtained via the primary course website which is Moodle (moodle.njit.edu) for this course. Whenever you have a question about the course, please consult this resource first. In addition there are materials located at the following websites which should be your secondary source for materials.

Emergency Management material in general
http://training.fema.gov/EMIWeb/edu/completeCourses.asp

Numerous articles will be used in the course and may change from one course offering to another. Therefore review the electronic syllabus for the specific article that is required for each class session.

Textbooks:
All course material will be included in Moodle. No additional texts will be required.

Professional Journal Articles:
Many of the class journal articles will be posted on the Moodle “electronic syllabus timetable” and will also be available through the NJIT digital library.

Some relevant articles that could be used as reference during the course are listed as follows.


Moodle Class Discussions and Assignments:
Much of the class activities will occur online. The address (url) is moodle.njit.edu. As a student you logon with your ucid and when you do so you will have access to course material used for this course and any other course that an instructor is using Moodle for. Sign on and introduce yourself over the forum established for course introductions. You should visit Moodle at least 3 times a week.
**Class Recordings:**
Each class held in hybrid mode, modified face to face, will be recorded each week and posted to Moodle. All students will be able to review the recordings in case a session was missed.

The course lectures are available as follows:
- **The Moodle “electronic syllabus”** will contain all pertinent material for a topic during a specific week. All you need to do is click on the lecture for that week.

**Assignments and Grading**

**General Policy:** Reactions, online discussions, writing assignments (613) and course project are to be completed by the due dates. You must have a very good reason for requesting an extension.

**Reactions and Online discussions.** You will post your reactions to the course material on the Moodle forums prior to the course meeting each Tuesday. See the “electronic syllabus timetable” for the specific scheduling of the reactions. Reactions will be brief and consist of 3 sections; overall reaction to the topic, items that were clear, items that were confusing.

**Assignments** - There will be 2 course writing assignments for IS 613. The specific due dates will be posted on the electronic syllabus timetable.

**Course Project or Course Research Paper** - There will be course projects designed to develop tools and technologies used during an actual Emergency. These projects will vary from class to class. In lieu of a project students may opt to develop a final research paper that investigates on a deeper level some of the issues discussed in class.

**“A” breakers** - In order to be a candidate for an A you must complete all reactions on time and post them as required to the Moodle Bulletin Board, the second is completing ALL assignments on time.

The grade distribution for the course will be as follows:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage of Semester Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Project or Research paper</td>
<td>35%</td>
</tr>
<tr>
<td>Reactions and Online Discussion (forums and WEBEX)</td>
<td>25%</td>
</tr>
<tr>
<td>Writing Assignment 1 (IS 613)</td>
<td>20%</td>
</tr>
<tr>
<td>Writing Assignment 2 (IS 613)</td>
<td>20%</td>
</tr>
</tbody>
</table>

**General Time table**
Week 1 Introductions, Review of Entire Course, and Review of Design Approaches
Week 2 Emergency Management Overview, Design Approaches Continued (Begin Turoff Lectures)

Week 3 Four Dimensions of Emergency Management

Week 4 Homeland Security and Emergency Management

Week 5 General System Thinking

Week 6 NIMS and Incident Management Systems (DERMIS paper)

Week 7 Incident Management Systems (cont.)

Week 8 Collaboration Systems (physical, virtual, mobile)

Week 9 Notification and Alerting Systems

Week 10 Visualization and Geo Positioning Systems (GIS)

Week 11 Emergency Management Portals

Week 12 Advanced Design Approaches (traditional/ modern)

Week 13 Prototyping

Week 14 Activity Theory/ Action Research

Week 15 Project Activity

Week 16 Project Wrap up