COURSE CALENDAR DESCRIPTION

"This course examines the science and significance of natural, technological and human-induced disasters, providing an understanding of the physical and other processes that lead to disasters, and their results. Note: This course is not permitted for major credit by students who are EATS program majors.

INSTRUCTOR(S)

<table>
<thead>
<tr>
<th>Name</th>
<th>Section / Format / Term</th>
<th>Contact Email</th>
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<tbody>
<tr>
<td>Pathak, Jagruti</td>
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TOPICS AND CONCEPTS

TOPICS COVERED:

Term 1:
1. Introduction to the atmospheric system
2. Weather principles, air pollution, air contamination
3. Supercell storms
4. Tornadoes
5. Hailstorms
6. Microbursts
7. Hurricanes
8. Floods
9. Drought and extreme heat
10. Ice storms, snow storms, and blizzards
11. Nuclear winter
12. Wildfires

Term 2:
1. Introduction to the earth system
2. Plate tectonic theory
3. Earthquake basics, seismic waves, and magnitude
4. Volcanoes
5. Mass movements and landslides
6. Tsunamis
7. Asteroids

And topics related to technological and other risks, from among:
8. Oil spills, soil and water contamination
9. Cyber space worms/viruses, program failure
10. Power blackouts
11. Nuclear accidents and meltdowns
12. Introduction to epidemics and biological threats: SATS, asian flu, anthrax

GRADED ASSESSMENT

Evaluation:
- Homework exercises: 40%
- Mid-term test: 30%
- Final exam: 30%

ADDITIONAL INFORMATION

ACADEMIC INTEGRITY LINKS
- Senate Policy on Academic Honesty - http://secretariat-policies.info.yorku.ca/policies/academic-honesty-senate-policy-on/
- Academic Integrity - http://lassonde.yorku.ca/academic-integrity

STUDENT LINKS
- Student Rights and Responsibilities - http://oscr.students.uit.yorku.ca/student-conduct
- Religious Observance - https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs
- Counselling and Disability Services - http://cds.info.yorku.ca/

Many courses utilize Moodle, York University’s course website system. If your course is using Moodle, click here to access it.
Moodle @ York University