EXPANDED COURSE DESCRIPTION
EARTH, SPACE SCIENCE AND ENGINEERING
Lassonde School of Engineering
Earth and Space Science and Engineering
LE / ESSE 4240 3.0 SECTION A
STORMS AND WEATHER SYSTEMS
FALL 2017 / WINTER 2018

COURSE CALENDAR DESCRIPTION
The study of mesoscale circulations and precipitating storm systems. Basic governing equations and instabilities. Nature and evolution of isolated convection, thunderstorms, mesoscale convective systems, precipitation bands, extratropical cyclones, fronts and frontogenesis, hurricanes, blizzards, polar lows and orographic storms. Three lecture hours. One term. Three credits. Prerequisites or corequisites: LE/ESSE 3040 3.00; LE/ESSE 4120 3.00. Prior to Fall 2014: Prerequisites or corequisites: LE/EATS 3040 3.00; LE/EATS 4120 3.00. Prior to Summer 2013: Prerequisites or corequisites: SC/EATS 3040 3.00; SC/EATS 4120 3.00.

INSTRUCTOR(S)

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<tr>
<th>Name</th>
<th>Section / Format / Term</th>
<th>Contact Email</th>
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<tbody>
<tr>
<td>Chen, Yongsheng</td>
<td>Sec. A / LECT / F</td>
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TOPICS AND CONCEPTS
Content:
- Mesoscale meteorological measurement platforms.
- Mesoscale numerical modelling.
- Mesoscale boundaries.
- Tropical Storms.
- Winter Storms and winter severe weather.
- Thunderstorms and summer severe weather.
- Report and presentation project.

ADDITIONAL INFORMATION

Texts:

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

Moodle @ York University