EXPANDED COURSE DESCRIPTION
EARTH, SPACE SCIENCE AND ENGINEERING
Lassonde School of Engineering
Earth and Space Science and Engineering
LE / ESSE 1012 3.0 SECTION M
EARTH ENVIRONMENT
FALL 2019 / WINTER 2020

Last Modified Date: 08/07/2019

COURSE CALENDAR DESCRIPTION

Provides essential topics in Earth environment (Earth and oceanic science, atmospheric science, and geology) and explores the role played by global and local scale processes in shaping our planet. Concepts are described; the latest technology discussed, and links between engineering disciplines are provided. The course lectures are complemented by hands-on laboratory and field experience. Prerequisites: 12U calculus and vectors or 12U advanced functions, or SC/MATH 1515 3.00; 12U physics or SC/PHYS 1510 4.00. Corequisites: LE/ENG 1101 4.00; LE/ENG 1102 4.00; SC/PHYS 1800 3.00, SC/PHYS 1801 3.00.

INSTRUCTOR(S)

<table>
<thead>
<tr>
<th>Name</th>
<th>Section / Format / Term</th>
<th>Contact Email</th>
<th>Contact Phone</th>
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<tbody>
<tr>
<td>Jadidi Mardkheh, Amaneh</td>
<td>Sec. M / LECT / W</td>
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ADDITIONAL INFORMATION

COURSE LEARNING OUTCOMES
1. Explaining introductory geologic science concepts
2. Explaining introductory atmospheric and oceanic science concepts
3. Explaining introductory space engineering concepts
4. Explaining introductory geomatics engineering concepts
5. Applying new skills in laboratory and field experiences (L)
6. Recognizing the value of emerging technologies in related engineering disciplines (L)

GRADING BREAKDOWN

Laboratory (Five x4%) 20%
Assignment (Five x2%) 10%
Attendance 6%
Tests (Three x 8%) 24%
Final examination 40%

COURSE TEXTS

Earth Environments: Past, Present and Future (Huddart and Stott, 2010). Available on Library (paper and digital copies)

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
- Student Accessibility Services (SAS) - https://accessibility.students.yorku.ca/
- York University’s Policies on Gender/LGBTQ*/Positive Space - http://rights.info.yorku.ca/lgbtq/

LAND ACKNOWLEDGEMENT

- We acknowledge our presence on the traditional territory of many Indigenous Nations. The area known as Tkaronto has been care taken by the Anishinabek Nation, the Haudenosaunee Confederacy, the Huron-Wendat, and the Métis. It is now home to many Indigenous Peoples. We acknowledge the current treaty holders, the Mississaugas of the New Credit First Nation. This territory is subject of the Dish With One Spoon Wampum Belt Covenant, an agreement to peaceably share and care for the Great Lakes region.
- The Indigenous Framework for York University: A Guide to Action can be found here: http://indigenous.info.yorku.ca/
- Meaning of a land acknowledgement: http://healthydebate.ca/opinions/indigenous-land-acknowledgements

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

Moodle @ York University