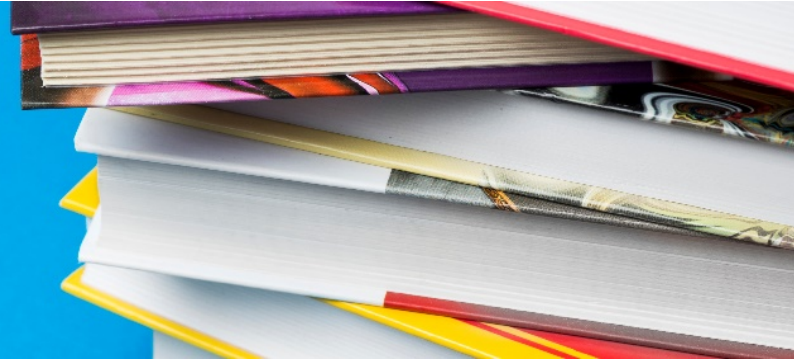# Full Syllabus

Course Title

0349-2918 Intro to remote sensing

Lecturer

Prof. Alexandra Chudnovsky

Semester

2020/1 Alef

Course requirements

Intro to Geoinformatics A+B

Final grade components

Homework/labs- 30%, Exam 70%

Course schedule

| Class no. / Date	Subject and Requirements (assignments, reading materials, tasks, etc.)
19/10/20	Remote sensing- intro to the course, applications Remote sensing principles, Data Collection, History of sensors
26/10/20	Principles of electromagnetic radiation and the transfer of radiation into the atmosphere
2/11/20	Thermal imagery
9/11/20	Remote sensing concepts: types of resolution and satellite scanning
16/11/20	Preliminary processing of satellite imagery? Radiometric correction
23/11/20	Atmospheric correction
30/11/20	Spectral transformations: channel ratios, indices, spectrum analysis
7/12/20	Image processing: enhancement
14/12/20	Environmental applications of remote sensing- spectral range matters
21/12/20	Spectral classification: supervised
28/12/20	Spectral classification: unsupervised
4/1/21	Remote sensing concepts: types of resolution and satellite scanning
11/1/21	GIS and Remote sensing major data sources- introducing worldwide data library

Required course reading

Jensen J.R. (2000) Remote Sensing of the Environment: An Earth Resource Perspective, Prentice Hall.
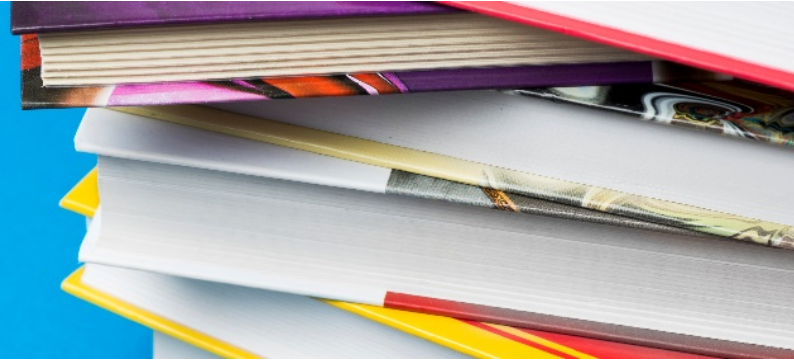
Optional course reading

Comments