# You Tube Resources for NMR and IR spectroscopy and mass spectrometry (MS)

Chemistry 2312 Honors Organic Chemistry Laboratory

### Excellent set of YouTube videos on Knowbee

(I don't condone the lecturer's granting of gender to atoms, nuclei, molecules, and spectra. They also routinely and incorrectly refer to a single nucleus as a "nuclei". Ok, we'll look past these imperfections to benefit from the rest of the well-done content.)

#### Fundamentals of NMR spectroscopy:

Series of ten videos. Total of ca. 2 h of viewing. (see screen shots below for contents/topics) https://www.youtube.com/watch?v=TJhVotrZt9I&list=PL6CD5AlpaPUEkncpJh4SH-nluapxxlq0j

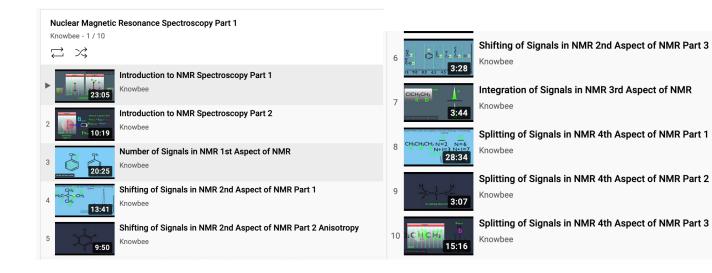
## Fundamentals of IR spectroscopy: (15 min)

https://www.youtube.com/watch?v=0S bt3JI150

## Fundamentals of Mass spectrometry:

The instrument, how it works, and the molecular ion (20 min) <a href="https://www.youtube.com/watch?v=2oPUyIbPxLo">https://www.youtube.com/watch?v=2oPUyIbPxLo</a>

Fragmentation (Parts 1 and 2; 24 and 12 min): https://www.youtube.com/watch?v=FCCFiyoDTaM https://www.youtube.com/watch?v=mbXOP28W9z8



September 9, 2022

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