

**Course:** CHEM 520

**Instructor:** Gonzalo Cosa, Tomislav Friscic, Alexey Kostikov, Anthony Mittermaier, Christopher Thibodeaux

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**Brief course description:** This course will give an overview of methods in chemical biology with a focus on structural and spectroscopic studies. The tools typically encountered will be described toward: molecular characterization (crystallography, mass spectroscopy, NMR), subcellular and cellular studies (fluorescence, super resolution imaging), and tissue/organism (positron emission tomography).

**Method of Delivery:** online lectures with a mix of live and pre-recorded ones, with live discussions in office hours (also online)

**Evaluation Scheme:** Every professor will provide a quiz at the end of week 1, and a second quiz at the end of week 2. At the end of the course each student is expected to give an oral presentation (15 min + 5 question) based on an article chosen from a list previously provided.

**Marking:** 100 points total to be divided as: 5 points quiz I, 5 points quiz II, 8 points for take home exercise (for each professor) and 10 points for oral presentation. No final exam