

## Course suggestions.

All students:

English writing (when available).

### Molecular chemistry and catalysis

- Seminars in organic chemistry and inorganic chemistry
- Basic and advanced NMR - Level 1 (a) CH-601(x)
- Frontiers in Chemical Synthesis. (one of three modules)
- High pressure in chemical kinetics and equilibria CH-617
- Inorganic chemistry (one of three modules)
- Perspectives in Modern Organic Chemistry (OCS) (one of two modules)
- Inorganic reactivity CH-423
- Catalyst design for synthesis CH-422
- Physical and computational organic chemistry CH-431
- Structure and reactivity CH-432
- Photochemistry II CH-443
- Catalytic asymmetric reactions in organic chemistry CH-435
- Coordination chemistry and reactivity of f elements CH-427
- Supramolecular chemistry CH-424

### Energy and materials

- Seminars in energy or chemical engineering or materials
- Electrochemical Thermodynamics and Kinetics of Metals and Semiconductors for Energy Conversion ChE-603
- Principles and Applications of X-ray Diffraction CH-632
- Surface and thin films processes CH-725
- 2D Layered Materials: Synthesis, Properties and Applications MSE-803 Materials
- Characterization Methods in Materials Science MSE-621
- Scanning and Analytical Transmission Electron Microscopy MSE-635
- Scanning electron microscopy techniques (a) MSE-636(a)
- Scanning electron microscopy techniques (b) MSE-636(b)
- Transmission electron microscopy and diffraction (a) MSE-637(a)
- Transmission electron microscopy and diffraction (b) MSE-637(b)
- Advanced materials for photovoltaics and lighting CH-447
- Introduction to nanomaterials MSE-479
- Catalysis for energy storage CH-421