ChE-601(2) **Leading research in Chemical Engineering (2)**

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Cursus	Sem.	Type
Chemistry and Chemical Engineering		Obl.

Language of teaching	English
Credits	1
Session	
Exam	Term paper
Workload	30h
Hours	**21**
Courses	7
Project	14
Number of positions	

Frequency

Every year

Remark

Next time: Spring semester 2019

Summary

Lectures from leading members in Chemical Engineering on: Catalysis, nanotechnology, material synthesis, process engineering, separations, energy, green chemistry, biotechnology, biocatalysis, systems biology and polymer systems

Content

Concepts covered by external lecturers who are leading experts in the field of chemical engineering will include experimental and computational techniques in the fields of:

- Catalysis
- Photovoltaics and photocatalysis
- Solar fuels
- CO2 capture and sequestration
- Systems biology
- Metabolic engineering
- Synthetic biology
- Surface science
- Nanotechnology
- Materials synthesis
- Polymer systems

Learning outcomes:
To have a better grasp of the leading research being done in the field of chemical engineering and understand the level of research done by leaders in the field.

Note

Next session: Spring and Fall semester (starting Spring 2017)
Enrolment: edch@epfl.ch

Keywords

Chemical engineering,catalysis, nanotechnology, material synthesis, process engineering, separations, energy, green chemistry, biotechnology, biocatalysis, systems biology and polymers systems

Learning Prerequisites

Important concepts to start the course

MA2 level

Resources

Websites

- http://isic.epfl.ch/CEseminar