**ChE-601(1) Leading research in Chemical Engineering (1)**

Luterbacher Jeremy, Vacat.

<table>
<thead>
<tr>
<th>Cursus</th>
<th>Sem.</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chimie et génie chimique</td>
<td></td>
<td>Obl.</td>
</tr>
</tbody>
</table>

- **Language**: English
- **Credits**: 1
- **Session**: 1
- **Exam**: Term paper
- **Workload**: 30h
- **Hours**: 21
- **Lecture**: 7
- **Practical work**: 14
- **Number of positions**: frequency
  - Every year
  - Next time: Fall semester 2019

**Frequency**

Every year

**Remarque**

Next time: Fall 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**

**Fall and Spring semester (starting Fall 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