

CH-622

## Synergism between Art of Total Synthesis and High Level Strategic Design (MOM)

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Cursus	Sem.	Type
Chemistry and Chemical Engineering		Opt.

Language of teaching	English
Credits	2
Session	
Exam	Multiple
Workload	60h
<b>Hours</b>	<b>46</b>
Lecture	10
Practical work	36
<b>Number of positions</b>	<b>8</b>

### Frequency

Every year

### Remark

Next time Summer 24

### Summary

Retro-synthesis, Total Synthesis, Atom-economy

### Content

The following topics will be addressed:

- Selection of right (relevant?) targets
- Design of synthesis strategy
- Understanding the criteria for a successful synthesis
- Understanding the interplay between target pursuit and development of novel synthetic methodology
- Learning how to present and defend their own scientific project

### Keywords

Retro-synthesis, Total Synthesis, Atom-economy

### Learning Prerequisites

#### Recommended courses

Master EPFL or Equivalent

#### Important concepts to start the course

strong background in synthetic organic chemistry

### Assessment methods

Oral presentation together with oral exam

### Resources

#### Notes/Handbook

**Next session Fall 2017 (block)**