

ChE-452

**Process development II**

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Cursus	Sem.	Type
Biotechnology minor	E	Opt.
Energy Management and Sustainability	MA2, MA4	Obl.
Energy minor	E	Obl.
Ing.-chim.	MA2, MA4	Obl.

Language of teaching	English
Credits	2
Session	Summer
Semester	Spring
Exam	Oral
Workload	60h
Weeks	14
<b>Hours</b>	<b>2 weekly</b>
Courses	2 weekly
<b>Number of positions</b>	

**Summary**

Familiarize the students with integrated process development and industrial technologies.

**Content****Optimization**

- Influence of process modifications
- Risk analysis introduction
- Optimum choice
- Development program definition
- Use of process simulation software
- Scale down & scale up

**Assessment methods**

Oral exam = 100% final grade

Examen oral = 100% de la note finale

**Resources****Ressources en bibliothèque**

- [Ullmann's Encyclopedia of Industrial Chemistry](#)

**Websites**

- [http://scgc.epfl.ch/telechargement\\_cours\\_chimie](http://scgc.epfl.ch/telechargement_cours_chimie)