



## Environmental problem solving 3

 ECTS  
3 crédits

 Crédits ECTS  
Exchange  
2.5

 Composante  
UFR Sociétés,  
Cultures et  
Langues  
Étrangères

 Période de  
l'année  
Automne (sept.  
à dec./janv.)

- > Langue(s) d'enseignement: Anglais
- > Ouvert aux étudiants en échange: Oui
- > Catégorie d'enseignement pour les étudiants en échange: Cours général
- > Crédits ECTS Exchange: 2.5
- > Code d'export Apogée: NBEC9C12

## Présentation

### Description

“Environmental Problem Solving: knowledge, methods and competencies” helps develop the **knowledge, methods and competencies** needed to advance sustainability and the ecological transition as unprecedented change is happening at the global, regional and local levels. Students are trained to use qualitative, quantitative and scenario methods in a systems-theory approach. “What can change?” “How can change happen?” “Who can change?” are the pivotal questions of the course. Two of the six key sectors of the ecological transition (Energy systems ; Cities and Buildings) are explored from a theoretical and practical perspective, including investigation of a set of case studies and a roll-play at the end of each sequence. Specific attention is given to biophysical and subsurface resources. This course works hand in hand with the project-based course “Initiatives” and the various interventions of our colleagues from the geology department.

Course objectives and competencies developed:

- Understand the complexity and interconnectedness of major environmental issues: **systems competence**
- Demonstrate understanding of selected environmental problems from a transdisciplinary perspective: **transdisciplinary competence**
- Learn to use the methods and processes of environmental problem solving: **critical, strategic and normative competence**
- Learn to use qualitative and quantitative data-collection methods: **integrative data collection and analysis**

- Develop strong oral and written communication skills and abilities: **interpersonal and communication competence**

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## Heures d'enseignement

CM	CM	18h
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## Pré-requis recommandés

*Avoir suivi les cours Environmental Problem Solving 1 et 2 ou équivalent*

**Période** : Semestre 9

## Infos pratiques

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### Lieu(x) ville

› Grenoble

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### Campus

› Grenoble - Domaine universitaire