

SEMESTER 5_3rd YEAR ICBE

Practical info

Location(s)

 Toulouse

Microbiology and statistics

 ECTS
5 crédits

 Hourly volume
61h

Practical info

Location(s)

 Toulouse

Modelling and numerical solving in fluid mechanics

 ECTS
6 crédits

 Hourly volume
87h

Practical info

Location(s)

 Toulouse

Hydraulics and dispersed systems



ECTS
5 crédits



Hourly volume
39h

Practical info

Location(s)

 Toulouse

Engineering and ecological issues

 ECTS
3 crédits

 Hourly volume
30h

Practical info

Location(s)

 Toulouse

[FRANCAIS] Remise à niveau 3A ICBE

 ECTS
3 crédits

 Hourly volume
68h

Practical info

Location(s)

 Toulouse

Fluid Properties



ECTS
4 crédits



Hourly volume
37h

 Toulouse

Introducing

Objectives

At the end of this module,

- 1) students will be able to write and use thermodynamic models and correlations leading to the determination of fluid properties as well as the calculation of enthalpy, entropy and fugacity in polyphase mixtures .
- 2) students will then be able to apply these concepts to the phase equilibria (liquid-vapor, liquid-liquid) necessary for the characterization of the main limitations and the efficiency of the different unit operations.
- 3) students know how to use Prophy software to determine fluid properties and equilibrium conditions for pure substances and mixtures.

Necessary prerequisites

I2BETH11: Thermodynamique approfondissement et application aux systèmes physico-chimiques

Practical info

Location(s)

Molecular biology



ECTS
4 crédits



Hourly volume
47h

Introducing

Basics in biochemistry and microbiology

Objectives

Objectives:

At the end of this module, the student will have understood and be able to explain (main concepts):

- Nucleic acids properties, genome organization and DNA replication
- Gene transcription and messenger RNA translation leading from DNA to proteins
- RNA processing and modifications
- Proteins folding, modifications, interactions, secretion and turnover

The student will be able to:

- Define and describe the main molecular elements enabling genome organization and gene expression.

The aim of this UF is to provide the molecular biology knowledge that is absolutely required to master the biotechnology tools. The student must be able to formulate, interpret and solve a molecular problem around the basic molecular processes allowing gene expression in order to master biotechnological tools and for optimizing and/or modifying living organisms of industrial interest

Practical info

Location(s)

 Toulouse

Necessary prerequisites

Necessary knowledge :

Improving one's autonomy and building one's own professional project – level 3



ECTS
2 crédits



Hourly volume
44h

Practical info

Location(s)

 Toulouse

Job search and language

 **ECTS**
5 crédits

 **Hourly volume**
37h

Introducing

Objectives

Job search modules in French and in English

By the end of these modules, the student is expected to understand how to successfully obtain an internship or job and will grasp the differences in the job-search process between France and English-speaking countries.

The student will be able to:

- ¿ make a personal statement, and start developing a career plan
- ¿ use current research tools (web, online networks, company websites) to conduct a documentary survey on recruitment
- ¿ seek work placements matching his/her objectives and profile
- ¿ find and analyze an English advert in his/her future field
- ¿ adapt his/her CV and cover letter to a specific job application
- ¿ write a CV in English following various country-relevant templates
- ¿ ensure his/her job application meets the company's requirements
- ¿ prepare for an interview (self-knowledge, company awareness, preparation of adequate questions)
- ¿ show adequate degree of proficiency in job search related technical English to be able to take a professional job interview

Second language course (optional ¿ commitment for

years 3 and 4)

The objectives are defined according to European specifications for the five language skills and specific to the various languages proposed - German, Spanish, and Chinese ¿ and to students' levels.

Whenever his/her level is sufficient, the student will be able to:

- ¿ Synthesize and present professional documents
- ¿ give an oral presentation in front of a group
- ¿ take into account the various dimensions of interculturality
- ¿ Analyze a job ad
- ¿ simulate a job interview
- ¿ write a CV and a cover letter in the studies language

Remedial English (upon teachers¿ decision)

In some specific cases, a remedial English course is offered in replacement of the second language course with the objective of reinforcing the language skills useful for the TOEIC, i.e. reading and listening, grammar and vocabulary.

Necessary prerequisites

- ¿ TRE (in French): min. C1 level in French ¿ Course not open to exchange students
- ¿ Job Search (in English): min. B1 level in English ¿ Course open to exchange students
- ¿ LV2: min. A2 in the language studied ¿ Course not open to exchange students

Practical info

Location(s)

 Toulouse

Political sciences semester 1

 ECTS
3 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse

[FRANCAIS] Challenge – Formation ECIU

 ECTS
1 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse

[FRANCAIS] Challenge – Formation ECIU

 ECTS
2 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse

[FRANCAIS] Challenge – Formation ECIU

 ECTS
3 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse

[FRANCAIS] Challenge – Formation ECIU

 ECTS
4 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse

[FRANCAIS] Challenge – Formation ECIU

 ECTS
5 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse