

ESTBB at a glance

Name of the Institution

Lyon Catholic University (UcLy)

Département

Engineer School in Biotechnology (ESTBB)

Address

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ERASMUS+ code

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ESTBB International Relations Office

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Why ESTBB ?

A modern human-sized University in the center of Lyon

Work in small groups with personalized support

Education based on numerous practical work

Well-equipped labs



<https://www.estbb.fr/en/>

Modules for international students

2023-2024

Syllabus can be found on estbb website

Exchange students follow the same courses as degree students.

If you select courses from different study courses or different semesters (e.g. semester 2 and 4), this might lead to clashes in your time table and/ or clashes in the examination period. Please consider this in your choices.

Legend:

L: Lectures

EC: Exercise Classes

LC: Laboratory classes

T: Tutorial

ECTS: European Credits Transfert system

S3 and S4 are 2nd year undergraduate students program / S5 and S6 are 3rd year program

Modules taught in English at UcLy

Being part of UcLy means that you can choose a course in all of our faculties.

Have a look here :

<https://www.ucly.fr/en/academics/courses-in-english/english-courses-catalogue/>



Modules taught in English at ESTBB

The English-taught classes are part of the 3rd year undergraduate programs.

Code	Title	Language of teaching	ECTS	L (h)	EC (h)	LC (h)	T (h)
Modules with a flexible timeline : to mix and match as you prefer							
EL-IN1	Scientific written communication	English	10	/	/	/	30
EL-IN2	Research project	English	5 to 10	/	/	/	30
EL-IN3	Epigenetics	Online - English	5	/	/	/	30
EL-IN4	Ecology	Online - English	5	/	/	/	30
EL-IN5	Genome editing and Engineering	Online - English	5	/	/	/	30
EL-IN6	Cancer Biology	Online - English	5	/	/	/	30
AIS6UE08-IN	Internship	English	10 to 30				
Semester 5 (Fall) : From mid-October to mid-November: 4 weeks of Practical with a small group (less than 12) of French students							
AIS5UE03-IN	Cell culture 2	English	10	2	/	43	/
Semester 5 (Fall): From Mid-October to Mid-December: to go further in Life Sciences and to combine with other interests							
SVHS5UE01-IN	Applied Immunology	English	5	28	12	8	/
SVHS5UE02-bis-IN	Ecology	English	5	30	12	8	/
SVHS5UE02-IN	Systems biology	English	5	30	8	/	12
Semester 6 (Spring): From mid-January to June (last exam: end of May): to develop strong basis to become an Engineer in Biotechnology							
INS6ETBS01-IN	Advanced Immunology	English	5	10	8	16	/
INS6ETBS02-IN	Genetic Engineering	English	5	10	/	24	/
INS6ETBS03-IN	Project : European Biotechnology	English	5	10	/	/	30
INS6ETSTI02-IN	Cellular technologies	English	5	10	/	30	/
INS6ETSTI03-IN	Bioinformatic	English	5	6	24	10	/
INS6ETSTI04-IN	Industrial Microbiology	English	5	10	/	30	/
Semester 6 (Spring): From End of January to End of March : a short semester with a perfect timeline to combine with an internship							
AIS6UE03-IN	Advanced genetic engineering [Molecular biology, Virology, Cancer biology]	English	5	36	/	/	/
AIS6UE04-IN	Bioprocesses	English	5	12	/	31	/

Modules taught in French / Assistant Engineer Bachelor program (AI)

Code	Titre	Language of teaching	ECTS	L (h)	EC (h)	LC (h)	T (h)
Semester 3 (Fall): From September 1st to end of January [2nd year Assistant Engineer Bachelor] : <i>to learn by doing, with a lot of Practical in small group</i>							
AIS3UE01-IN	Immunologie appliquée au diagnostic	French *	5	20	4	12	/
AIS3UE02-IN	Bactéries non exigeantes	French *	10	12	/	68	/
AIS3UE03-IN	Bactéries fragiles et antibiogrammes	French *	5	10	/	34	/
AIS3UE04-IN	Biochimie structurale	French *	5	10	2	34	/
AIS3UE05-IN	Biochimie fonctionnelle Enzymologie	French *	5	10	2	19	/
AIS3UE06-IN	Techniques d'analyses biochimiques	French *	10	26	/	54	/
AIS3UE07-IN	Biostatistiques 2	French	5	28	/	/	/
Semester 4 (Spring): From mid-January to mid-May [2nd year Assistant Engineer Bachelor]							
AIS4UE01-IN	Virology _ Genetic Engineering 2	English	10	28	10	31	/
AIS4UE02-IN	Culture cellulaire 1 - Histologie	French	5	14	/	13	/
AIS4UE03-IN	Biochimie métabolique et analytique	French	5	32	/	34	/
Semester 5 (Spring): From mid-January to mid-May [3rd year Assistant Engineer Bachelor]							
AIS5UE01-IN	Biologie du développement et immunologie appliquée	French	5	17	7	4	/
AIS5UE02-IN	Développement du médicament	French	5	12	4	/	/
AIS5UE03-IN	Cell Culture 2	English	10	2	/	43	/
AIS5UE04-IN	initiation à l'entrepreneuriat	French	15	73	10	/	/
AIS5UE06-IN	Communication écrite scientifique	English / French	10	/	/	/	30

* Exercise Classes (EC) and Laboratory Classes (LC) can be taught in English.



Modules taught in French / Bachelor in Life Sciences minor Humanities program

Code	Title in French	Language of teaching	ECTS	L [h]	EC [h]	LC [h]	T [h]
Semester 3 (fall) : From September 1st to the end of January (2nd year Bachelor Life Sciences minor Humanities)							
SVHS3UE01-IN	Immunologie générale	French	5	26	12	10	/
SVHS3UE02-IN	Microbiologie	French	5	30	10	12	/
SVHS3UE03-IN	Biochimie Métabolique et enzymologie	French	5	30	12	12	/
SVHS3UE04-IN	Génétique avancée	French	6	26	12	10	20
SVHS3UE05-IN	Compétences transversales	French	4	7	63	/	40
SVHS3UE06-IN	Humanités : - Histoire et épistémologie de la biologie - Naturel et artificiel	French	5	22 25	/	/	/
Semester 4 (spring): From mid-January to mid-June (2nd year Bachelor Life Sciences minor Humanities)							
SVHS4UE01-IN	Microbiologie avancée	French	5	24	12	10	/
SVHS4UE02-IN	Biologie cellulaire intégrative	French	6	30	12	10	/
SVHS4UE02 bis-IN	Sciences de l'ingénieur - Chimie / Physique / Mathématiques	French	6	26	30	/	/
SVHS4UE03-IN	Physiologie végétale	French	5	26	12	12	/
SVHS4UE04-IN	Apprentissage par la Recherche, Bioinformatique	French	6	/	24	/	49
SVHS4UE05-IN	Compétences transversales	French	4	15	24	/	26
SVHS4UE06-IN	Humanités: - module obligatoire: Identité biologique et identité humaine - module au choix: Culture Scientifique et enjeux sociétaux / Entreprise et humanisme	French	5	25 25	/	/	/
Semester 6 (spring): From mid-January to mid-June (3rd year Bachelor Life Sciences minor Humanities)							
SVHS6UE01-IN	Technologies cellulaires	French	5	22	16	11	/
SVHS6UE02-IN	Biotechnologies	French	5	30	8	/	8
SVHS6UE03-IN	Ecriture scientifique	French	6	16	12	/	20
SVHS6UE04-IN	Etude de cas	French	6	22	4	/	36
SVHS6UE05-IN	Compétences transversales	French / English	4	7	18	/	/
SVHS6UE06-IN	Humanités: - module obligatoire: éthique de la santé - module au choix: savoir et croire / L'art comme chemin de la connaissance	French	5	25 25	/	/	/

Modules taught in French / Engineer in Biotechnology program

Code	Title in French	Language of teaching	ECTS	L (h)	EC (h)	LC (h)	T (h)
Semester 3 (Fall): From September 1st to the end of January [Engineer in Biotech-2nd preparatory year]							
INS3ETBS01-IN	Biochimie métabolique	French	2,5	10	6	14	6
INS3ETBS02-IN	Cinétique chimique et Enzymologie	French	2,5	10	6	14	6
INS3ETBS03-IN	Biologie cellulaire - Signalisation	French	2,5	10	10	10	6
INS3ETBS04-IN	Génie Génétique	French	2,5	10	/	20	6
INS3ETSTI01-IN	Informatique 3	French	5	10	10	/	20
INS3ETSTI02-IN	Sciences analytiques 2	French	5	10	10	10	6
INS3ETSTI03-IN	Electronique	French	5	10	10	10	6
INS3ETSF01-IN	Chimie organique 2	French	5	10	10	10	6
INS3ETSF02-IN	Physique 3	French	5	10	20	/	6
INS3ETSF03-IN	Mathématique 3	French	5	10	20	/	6
INS3ETHM01-IN	Interculturalité, transition écologique et développement durable 1	French	1	10	20	/	/
Semester 4 (Spring): From mid of January to mid-June [Engineer in Biotech-2nd preparatory year]							
INS4ETBS01	Microbiologie 2 (Bactériologie, virologie et parasitologie)	French	5	10	/	20	6
INS4ETBS02-IN	Physiologie animale et végétale 2	French	5	10	10	10	6
INS4ETBS03-IN	Immunologie	French	5	10	10	10	6
INS4ETBS04-IN	Biologie des écosystèmes	French	5	10	10	10	6
INS4ETSTI01-IN	Biostatistiques	French	5	10	10	10	6
INS4ETSF01-IN	Physique 4	French	5	10	20	/	6
INS4ETSF02-IN	Mathématique 4	French	5	10	20	/	6
INS4ETHMS01-IN	Interculturalité, transition écologique et développement durable 2	French	2,5	10	10	/	/
Semester 5 (Fall): From September 1st to end of December [Engineer in Biotech-1st year common core]							
INS5ETBS01-IN	Socle infectieux (virologie, parasitologie, mycologie)	French	5	10	/	24	/
INS5ETBS02-IN	Panorama des biotechnologies et introduction à la bioproduction	French	5	12	/	24	/
INS5ETBS03-IN	Introduction à l'analyse génétique	French	5	16	14	/	8
INS5ETSTI01-IN	SMQ: des BPL au BPF	French	5	10	10	10	/
INS5ETSTI02-IN	Socle génie des bioprocédés	French	5	10	10	18	/
INS5ETSTI03-IN	Validation des méthodes analytiques	French	5	8	8	18	/
INS5ETSF01-IN	Mathématiques/statistiques - Cours 4 (R et plan d'expérience)	French	5	16	14	/	/
INS5ETSF02-IN	Physique: les transferts de chaleur et matière	French	5	10	10	10	/
INS5ETHMS01-IN	Introduction aux sciences économiques	French	5	25	5	/	/
INS5ETHMS02-IN	Société et biotechnologie: enjeux éthiques et sociétaux / Introduction au droit	French	12	20	10	/	/



APPLICATION PROCEDURE

1. Your home university nominates you by emailing estbb-relationsinternationales@univ-catholyon.fr

Deadline nomination

Fall semester : May 15th

Spring Semester: October 15th

2. We send you an email with the application form and the procedure

Deadline application

Fall semester : June 1st

Spring Semester: November 1st

3. Fill in the application form and send it to us

estbb-relationsinternationales@univ-catholyon.fr

Additional documents required

Transcript of Records

Proof of English or French language proficiency (official exam or a letter of recommendation from your English or French teachers)

Your CV and a cover letter explaining what you are expecting from this mobility in French or English

1 passport-sized photograph

4. Prepare your travel

Need help to find an accommodation ? contact "le service logement"

Need help for your VISA or other administrative procedure ? contact the International Student Desk

Any question, concern ? Contact Isabelle and Fanny

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estbb-relationsinternationales@univ-catholyon.fr

