

Modules for international students

2023-2024

Modules taught in English



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	Fall semester	Spring semester
Nomination	May 15th	October 15th
Application	June 1st	November 15th

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Semester	Code	Title	Language of teaching	ECTS	Lectures	Exercise classes	Tutorial	Laboratory classes
Modules with a flexible timeline : to mix and match as you prefer								
S5 or S6	EL-IN1	Scientific written communication	English	10	/	/	30	/
S5 or S6	EL-IN2	Research project	English	5	/	/	30	/
S5 or S6	EL-IN3	Epigenetics	Online - English	5	/	/	30	/
S5 or S6	EL-IN4	Ecology	Online - English	5	/	/	30	/
S5 or S6	EL-IN5	Genome editing and Engineering	Online - English	5	/	/	30	/
S5 or S6	EL-IN6	Cancer Biology	Online - English	5	/	/	30	/
S5 or S6	AIS6UE08-IN	Internship	English	10 to 30				
From mid-October to mid-November: 4 weeks of Practical with a small group [less than 12] of French students								
S5 (fall)	AIS5UE03-IN	Cell culture 2	English	5	2	/	/	47
From Mid-October to Mid-December: to go further in Life Sciences and to combine with other interests								
S5 (fall)	SVHS5UE01-IN	Applied Immunology	English	5	28	12	/	8
S5 (fall)	SVHS5UE01 bis-IN	Ecology	English	5	30	12	/	8
S5 (fall)	SVHS5UE02-IN	Systems biology	English	5	30	8	12	/
From mid-January to June: to develop strong basis to become an Engineer in Biotechnology								
S6 (spring)	INS6ETBS01-IN	Advanced Immunology	English	5	10	8	32	/
S6 (spring)	INS6ETBS02-IN	Genetic Engineering	English	5	10	/	24	/
S6 (spring)	INS6ETBS03-IN	Project : European Biotechnology	English	5	/	/	/	30
S6 (spring)	INS6ETSTI01-IN	Introduction to business	English	5	10	10	20	/
S6 (spring)	INS6ETSTI02-IN	Cellular technologies	English	5	10	0	30	/
S6 (spring)	INS6ETSTI03-IN	Bioinformatic	English	5	6	24	/	10
S6 (spring)	INS6ETSTI04-IN	Industrial Microbiology	English	5	10	/	30	/
From End of January to End of March : a short semester with a perfect timeline to combine with an internship								
S6 (spring)	AIS6UE01-IN	Advanced genetic engineering [Molecular biology, Virology, Cancer biology]	English	5	36	/	/	/
S6 (spring)	AIS6UE04-IN	Bioprocesses	English	5	12	/	/	31

Modules taught in French

Semestre	Code	Titre	Langue	ECTS	CM	TD	Tutorial	TP
From September 1st to end of January [2nd year Assistant Engineer Bachelor] : to learn by doing, with a lot of Practical in small group (only a B1 French level is required)								
S3 (fall)	AIS3UE01-IN	Immunologie appliquée au diagnostic	French	5	20	4	/	12
S3 (fall)	AIS3UE02-IN	Bactéries non exigeantes	French	10	12	/	/	68
S3 (fall)	AIS3UE03-IN	Bactéries fragiles et antibiogrammes	French	5	10	/	/	34
S3 (fall)	AIS3UE04-IN	Biochimie structurale	French	5	10	2	/	34
S3 (fall)	AIS3UE05-IN	Biochimie fonctionnelle Enzymologie	French	5	10	2	/	19
S3 (fall)	AIS3UE06-IN	Techniques d'analyses biochimiques	French	10	26	/	/	54
S3 (fall)	AIS3UE07-IN	Biostatistiques 2	French	5	28	/	/	/
From mid-January to mid-May [2nd year Assistant Engineer Bachelor]								
S4 (spring)	AIS4UE01-IN	Virology _ Genetic Engineering 2	English / French	5	28	10	/	31
S4 (spring)	AIS4UE02-IN	Biochimie métabolique et analytique	French	5	32	/	/	34
S4 (spring)	AIS4UE03-IN	Culture cellulaire 1 - Histologie	French	5	14	/	/	13
From mid-January to mid-May [3rd year Assistant Engineer Bachelor]								
S5 (fall)	AIS5UE01-IN	Biologie du développement et immunologie appliquée	French	5	17	7	/	4
S5 (fall)	AIS5UE02-IN	Culture cellulaire 2	English	5	2	/	/	47
S5 (fall)	AIS5UE03-IN	Communication écrite scientifique	English / French	10	/	/	30	/
S5 (fall)	AIS5UE04-IN	initiation à l'entrepreneuriat	French	15	73	10	/	/
S5 (fall)	AIS5UE05-IN	Développement du médicament	French	5	12	/	4	/



Semester	Code	Title in French	Language of teaching	ECTS	Lectures	Exercise classes	Tutorial	Laboratory classes
From September 1st to the end of January [2nd year Bachelor Life Sciences minor Humanities]								
S3 (fall)	SVHS3UE01-IN	Immunologie générale	French	5	26	12	/	10
S3 (fall)	SVHS3UE02-IN	Microbiologie	French	5	30	10	/	12
S3 (fall)	SVHS3UE03-IN	Biochimie Métabolique et enzymologie	French	5	30	12	/	12
S3 (fall)	SVHS3UE04-IN	Génétique avancée	French	6	26	12	20	10
S3 (fall)	SVHS3UE05-IN	Compétences transversales / Gestion de projet	French	4	48	20	/	/
S3 (fall)	SVHS3UE06-IN	Humanités : - Histoire et épistémologie de la biologie - Naturel et artificiel	French	5	50	/	/	/
From mid-January to mid-June [2nd year Bachelor Life Sciences minor Humanities]								
S4 (spring)	SVHS4UE01-IN	Microbiologie avancée	French	5	24	12	/	10
S4 (spring)	SVHS4UE02-IN	Biologie cellulaire intégrative	French	5	30	12	/	10
S4 (spring)	SVHS4UE02 bis-IN	Sciences de l'ingénieur - Chimie / Physique / Mathématiques	French	5	30	30	/	/
S4 (spring)	SVHS4UE03-IN	Physiologie végétale	French	5	26	12	/	12
S4 (spring)	SVHS4UE04-IN	Bioinformatique	French	5	/	24	7	/
S4 (spring)	SVHS4UE05-IN	Compétences transversales	French	4	25	33,5	16	/
S4 (spring)	SVHS4UE06-IN	Humanités: - module obligatoire: Identité biologique et identité humaine - module au choix: Culture Scientifique et enjeux sociétaux / Entreprise et humanisme	French	5	50	/	/	/
From mid-January to mid-June [3rd year Bachelor Life Sciences minor Humanities]								
S6 (spring)	SVHS6UE01-IN	Technologies cellulaires	French	5	22	16	/	11
S6 (spring)	SVHS6UE02-IN	Biotechnologies	French	5	30	6	8	/
S6 (spring)	SVHS6UE03-IN	Ecriture scientifique	French	6	16	12	20	/
S6 (spring)	SVHS6UE04-IN	Etude de cas	French	6	22	4	36	/
S6 (spring)	SVHS6UE05-IN	Compétences transversales	French/English	4	7	18	/	/
S6 (spring)	SVHS6UE06-IN	Humanités: - module obligatoire: éthique de la santé - module au choix: savoir et croire / L'art comme chemin de la connaissance	French	5	50	/	/	/



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From September 1st to the end of January [Engineer in Biotech-2nd preparatory year]								
S3 (fall)	INS3ETBS01-IN	Biochimie métabolique	French	2,5	10	6	6	14
S3 (fall)	INS3ETBS02-IN	Cinétique chimique et Enzymologie	French	2,5	10	6	6	14
S3 (fall)	INS3ETBS03-IN	Biologie cellulaire - Signalisation	French	2,5	10	10	6	10
S3 (fall)	INS3ETBS04-IN	Génie Génétique	French	2,5	10	/	6	20
S3 (fall)	INS3ETSTI01-IN	Informatique 3	French	5	10	10	20	/
S3 (fall)	INS3ETSTI02-IN	Sciences analytiques 2	French	5	10	10	6	10
S3 (fall)	INS3ETSTI03-IN	Electronique	French	5	10	10	6	10
S3 (fall)	INS3ETSF01-IN	Chimie organique 2	French	5	10	10	6	10
S3 (fall)	INS3ETSF02-IN	Physique 3	French	5	10	20	6	/
S3 (fall)	INS3ETSF03-IN	mathématique 3	French	5	10	20	6	/
S3 (fall)	INS3ETHM01-IN	Interculturalité, transition écologique et développement durable	French	1	10	20	/	/
From mid of January to mid-June[Engineer in Biotech-2nd preparatory year]								
S4 (spring)	INS4ETBS01-IN	Biochimie métabolique	French	5	10	/	6	20
S4 (spring)	INS4ETBS02-IN	Cinétique chimique et Enzymologie	French	5	10	10	6	10
S4 (spring)	INS4ETBS03-IN	Biologie cellulaire - Signalisation	French	5	10	10	6	10
S4 (spring)	INS4ETBS04-IN	Génie Génétique	French	5	10	10	6	10
S4 (spring)	INS4ETSTI01-IN	Informatique 3	French	5	10	10	6	10
S4 (spring)	INS4ETSF02-IN	Sciences analytiques 2	French	5	10	20	6	/
S4 (spring)	INS4ETHMS01-IN	Electronique	French	2,5	10	10	/	/
From September 1st to end of December [Engineer in Biotech-1rst year common core Engineer]								
S5 (fall)	INS5ETBS01-IN	Socle infectieux (virologie, parasitologie, mycologie)	French	5	10	/	/	24
S5 (fall)	INS5ETBS02-IN	Panorama des biotechnologies et introduction à la bioproduction	French	5	12	/	/	24
S5 (fall)	INS5ETBS03-IN	Introduction à l'analyse génétique	French	5	16	14	8	/
S5 (fall)	INS5ETSTI01-IN	SMQ: des BPL au BPF	French	5	10	10	/	10
S5 (fall)	INS5ETSTI02-IN	Socle génie des bioprocédés	French	5	10	10	/	18
S5 (fall)	INS5ETSTI03-IN	Validation des méthodes analytiques	French	5	8	8	/	18
S5 (fall)	INS5ETSF01-IN	Mathématiques/statistiques - Cours 4 [R et plan d'expérience]	French	5	16	14	/	/
S5 (fall)	INS5ETSF02-IN	Physique: les transferts de chaleur et matière	French	5	10	10	/	10
S5 (fall)	INS5ETHMS01-IN	Introduction aux sciences économiques	French	5	25	5	/	/
S5 (fall)	INS5ETHMS02-IN	Société et biotechnologie: enjeux éthiques et sociétaux / Introduction au droit	French	5	20	10	/	/

