



UNIVERSITÉ DE TECHNOLOGIE DE BELFORT-MONTBÉLIARD

UTBM ENGLISH COURSES

Academic Year 2025-2026*

Courses Formations

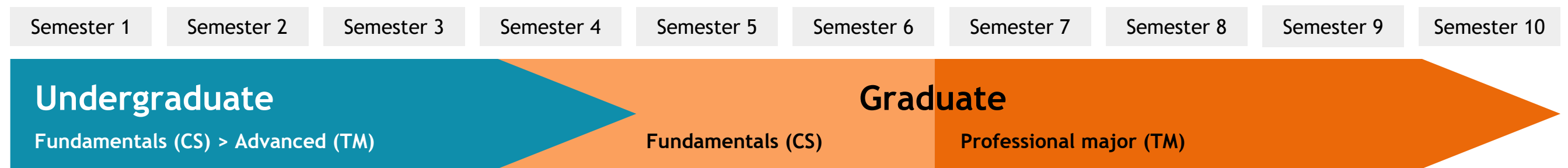
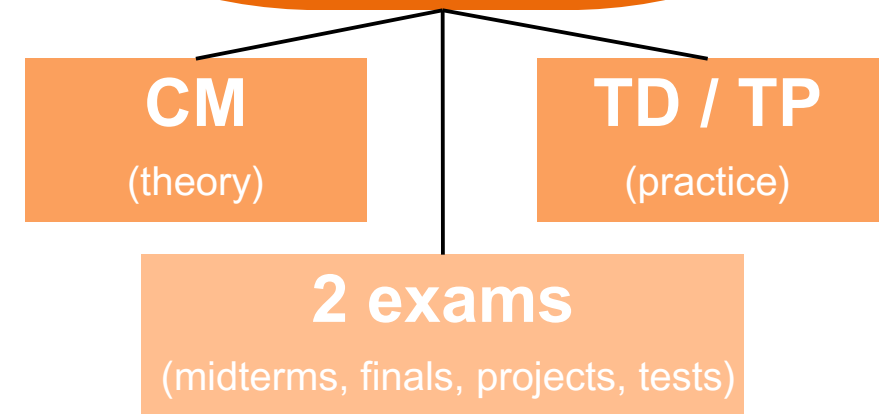
Students can choose **7 UE maximum**. We advise you to choose between 4 to 6 UE (30 ECTS).

4 to 6 ECTS \Leftrightarrow

1 UE = 1 class

To avoid schedule clashes, we strongly advise you to choose your subjects **in one department only***

* Students choosing subjects in either **undergraduate / graduate - CS / graduate - TM in one professional major** will be pre-enrolled. Enrolment in other subjects will be made during the *Welcome Week* after publication of the timetables. See pour [UE guide](#) for more details.



French classes



Undergraduate



Graduate - 1st year

- Mechanical Engineering
- Computer Science
- Industrial Systems
- Mechanical Engineering and Ergonomics
- Energy Engineering



Graduate - 2nd and 3rd year

- Specialization in a professional major

English classes



Undergraduate



Graduate - 1st year

- Mechanical Engineering
- Computer Science
- Energy Engineering



Graduate - 2nd and 3rd year

- Computer Science / Energy : specialization in a professional major
- Mechanical Engineering : free of choice

Free electives

You are free to add a few of the following classes:



Project classes

- Subject free of choice under the lead of one of our teachers



Cross-disciplinary courses

- Language classes / Technology, Sciences and Society



Guide des UE

To discover all of our courses, go on [le guide des UE](#).

Choose the year and "Engineering for student"

Choose your training

Choose your professional major

Code

UE	Libellé	Langue	Catégorie	Domaines de compétences	Filières métier	Caractéristiques	Automne	Printemps
AHUE1	Congrès industriel	FR					ouverte	
AHUE2	Journée internationale- Erasmus Day	FR					ouverte	
AHUE4	Journée de la Recherche et de l'Innovation	FR					ouverte	

Choose the website language

Teaching language

Level / courses type

- CS: fundamental
- TM : advanced
- QC/OM : social sciences
- EC: languages

Choose your semester

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Undergraduate

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AUTUMN SEMESTER

UE code	Name	ECTS credits	Level
MT3E	Second year algebra and analys	6	TM
PS29	Rigid Body Mechanics	6	TM
IF3E/ IF3B	Introducing to databases / Practical Computer Science	6	TM



SPRING SEMESTER

UE code	Name	ECTS credits	Level
PS28	Thermodynamics	6	CS
EL22	Introduction to automatisisation	6	TM
LP2A/ LP2B	Introduction to object conception and programming / Multimedia: digital representation	6	TM



AUTUMN SEMESTER

UE code	Name	ECTS credits	Level	Prof. major
CP58	Lean Product Development	5	TM	A
MN56	Advanced modelling and simulation in mechanical engineering	5	TM	B
SAE1	Project in Mechanical Engineering	6	CS/TM	A/B



SPRING SEMESTER

UE code	Name	ECTS credits	Level	Prof. major
CP41	Design methods in mechanical engineering	6	CS	
MN44	Introduction to mobile-physics simulation	6	CS	
CP51	PLM and Design for X	5	TM	A
CP55	Design and modelling for additive manufacturing	5	TM	A
MA53	Material forming and product assembly	5	TM	B
SAE2	Project in Mechanical Engineering	5	CS/TM	A/B

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Energy Engineering Energie

AUTUMN SEMESTER

UE code	Name	ECTS credits	Level	Prof. Major
ER59	Technology, regulation, safety and maintenance of hydrogen energy systems	5	TM	A
ER55	Renewable energy: design and control	5	TM	A
ER66	Power system analysis and control	5	TM	A
TY41- TY43	Project in Energy Engineering	5	CS/TM	A

SPRING SEMESTER

UE code	Name	ECTS credits	Level	Prof. Major
OI43	Introduction to Matlab - Simulink	6	CS	
SM51	Embedded systems technology	5	TM	A
ER54	Renewable Energy: principle and technology	5	TM	B
ERXX	Nuclear	5	TM	B
ER63	Energy storage	5	TM	A/B
TY44 - TY46	Project in Energy Engineering	5	CS/TM	A/B

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Computer Science Informatique

 AUTUMN SEMESTER				
UE code	Name	ECTS credits	Level	Prof. Major
PC40	Parallel Computing and Multicolore Architec	6	CS	
RE4E/ RE4F	Indroduction to networks / Routing and switching essentials	6	CS	
SI52	Compiler and language theory	6	CS	
AI50	Development project - AI	5	TM	A
AI51	Multi-Agent systems and simulation	5	TM	A
AI52	Advances optimization technics	5	TM	A
AI53	Machine learning by practice	5	TM	A
AI54	Generative AI	5	TM	A
VA54	Introduction to mobile robotics	5	TM	B
TY21	Project in Computer Science	5	CS/TM	A/B



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Computer Science Informatique

 SPRING SEMESTER				
UE code	Name	ECTS credits	Level	Prof. Major
IT41	Classical and Quantum Algorithms	6	CS	
SY43	Android development	6	CS	
DS50	Development project - Data Science	5	TM	A
DS51	Smart analytics and data management	5	TM	A
DS52	Business intelligence big data	5	TM	A
DS53	Data science fundamentals	5	TM	A
DS54	Blockchain and distributed systems	5	TM	A
DE50	Development project - Development	5	TM	B
DE52	Software engineering	5	TM	B
DE53	Associate Cloud Engineer	5	TM	B
TY42	Project in Computer Science	5	CS/TM	A/B

Free electives

Project UE

  AUTUMN & SPRING SEMESTERS		
UE code	Name	ECTS credits
ESP3	Tutored project	6
ESP4	Tutored project	12
ESP5	Tutored project	18

Technology, Sciences and Society

UE code	Name	Semester	ECTS credits
EC07	Nudges		5
CC03	American studies		5
CC04	British studies	 	5
CC05	Intercultural awareness: how to become a global citizen ?		5
EI02	The rest of the English speaking world	 	5
EI03	International security and global challenges	 	5
EV02	Energy and environment		5
EV04	Environmental and energy economics		5
MROX	Project in social sciences	 	5

DISCOVER OUR FRENCH LESSONS



5 different levels

From real beginner to taking an international exam (A1-B2)

Small classes

15 students maximum for a personalised teaching



Discovery of French culture

For a total immersion

Classes certified "Label Qualité FLE"

A guarantee of quality



- ★ ★ ★ formations
- ★ ★ ★ enseignants
- ★ ★ ★ accueil
- ★ ★ ★ locaux
- ★ ★ ★ gestion

29 mars 2024 - 28 mars 2028