UNIVERSITÉ DE TECHNOLOGIE DE BELFORT-MONTBÉLIARD

UTBM ENGLISH COURSES

Academic Year 2025-2026*

www.utbm.fr

Courses
Formations

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

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-enroled. Enrolment in other subjects will be made during the *Welcome Week* after publication of the timetables. See pour **UE guide** for more details.

4 to 6 ECTS <=> **1 UE = 1 class**

CM (theory)　　**TD / TP** (practice)

2 exams (midterms, finals, projects, tests)

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	Semester 9	Semester 10

Undergraduate
Fundamentals (CS) > Advanced (TM)

Graduate
Fundamentals (CS)　　Professional major (TM)

🇫🇷 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: specialization in a professional major
- Mechanical Engineering, Energy 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
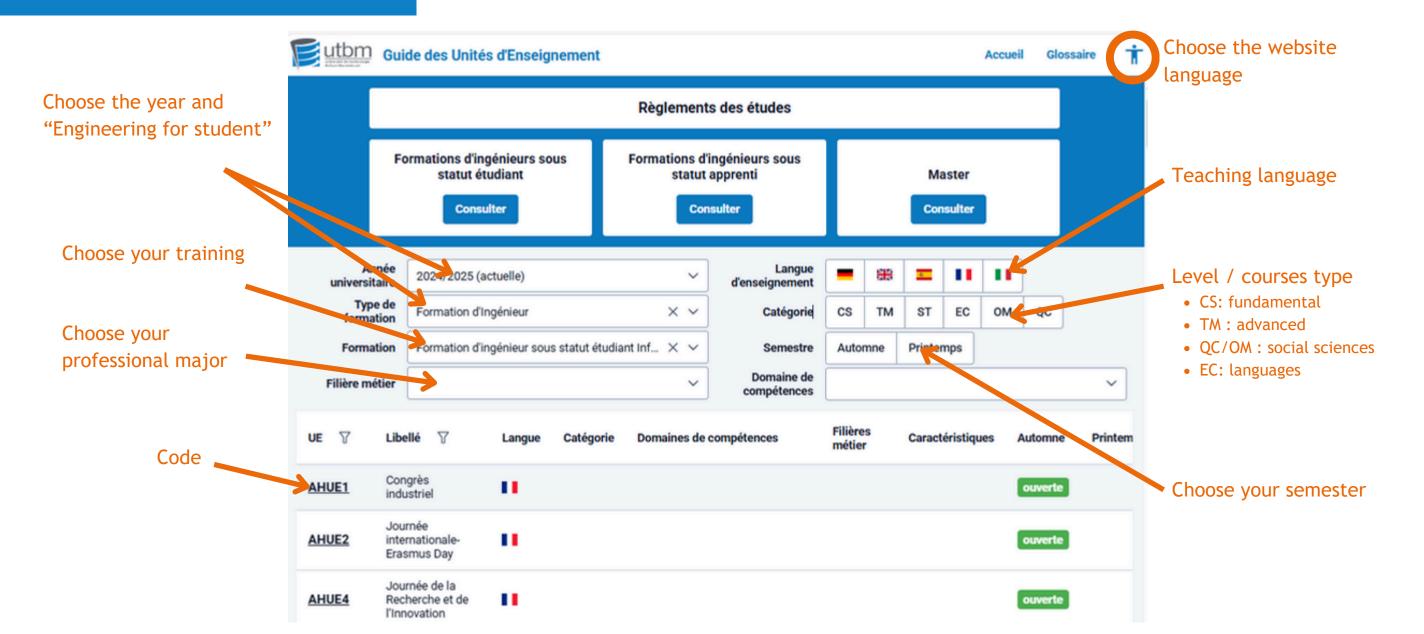
Cross-disciplinary courses
- Language classes / Technology, Sciences and Society

🌐 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

Choose the website language

Teaching language

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

Choose your semester

Sevenans Campus

AUTUMN SEMESTER

UE code	Name	ECTS credits	Level
MT3E	Second year algebra and analys	6	TM
IF3E/ IF3B	Introducting to databases / Practical Computer Science	6	TM

SPRING SEMESTER

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

SPRING SEMESTER

UE code	Name	ECTS credits	Level	Prof. major
UN57	Industrial Robotics and Automation	5	TM	A
UN58	Industry 4.0	5	TM	A

Sevenans Campus

Mechanical Engineering *Mécanique*

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

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
PDMT, PSYM, PIPD, PSIGMA	Project in Mechanical Engineering	5	CS/TM	A/B

Belfort Campus

Energy Engineering
Energie

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
PCSE	Project in Energy Engineering	5	TM	A

UE code	Name	ECTS credits	Level	Prof. Major
OI43	Introduction to Matlab - Simulik	6	CS	
SM51	Embedded systems technology	5	TM	A
ER54	Renewable Energy: principle and technology	5	TM	B
ER63	Energy storage	5	TM	A/B
PPEE	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	
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
VA56	Introduction to mobile robotics	5	TM	B
RC53	Cloud infrastructure and vistualization	5	TM	C
PF21	Project in Computer Science	5	CS/TM	A/B/C

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Computer Science *Informatique*

UE code	Name	ECTS credits	Level	Prof. Major
	SPRING SEMESTER			
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	Data science fundamentals	5	TM	A
DS53	Business intelligence big data	5	TM	A
DS55	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
PF22	Project in Computer Science	5	CS/TM	A/B

Free electives

🍃 ☀️ AUTUMN & SPRING SEMESTERS

UE code	Name	ECTS credits
ESP3	Tutored project	6
ESP4	Tutored project	12
ESP5	Tutored project	18

UE code	Name	Semester	ECTS credits
EC1E	Fundamental of economics for the engineer	🍃	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
MG6T/P	Patents for the engineer	🍃 ☀️	5
MR0X	Project in social sciences	🍃 ☀️	5

Free electives

Level 1-3 and post : your language level will be tested upon your arrival.

	AUTUMN & SPRING SEMESTERS		
UE code	**Name**	**ECTS credits**	**Prerequisites**
LE01	English level 1	4	
LE02	English level 2	4	English level
LE03	English level 3	6	English level
LE05	English post level 3 - Business issue	4	English level
LE07	English post level 3 - Technology and industry	4	English level
LE08	English post level 3 - Written communication	4	English level
LE09	English post level 3 - Oral communication	4	English level
LF70	French for begineers	4	
LF71	French level 1	4	French level
LF72	French level 2	4	French level
LF73	French level 3	4	French level
LF74	French level 4	6	French level
LC00	Chinese for beginners	4	French level
LC01	Chinese level 1	4	Chinese level
LC02	Chinese level 2	4	Chinese level
LC08	Chinese - preparation to HSK exam	4	Chinese level

Free electives

Languages

	AUTUMN & SPRING SEMESTERS		
UE code	**Name**	**ECTS credits**	**Prerequisites**
LG00	German for beginners	4	French level
LG01	German level 1	4	German level
LG02	German level 2	4	German level
LG03	German level 3	6	German level
LG05	German post level 3 - Business	4	German level
LI00	Italian for beginners	4	French level
LI01	Italian level 1	4	Italian level
LI02	Italian level 2	4	Italian level
LK00	Korean for beginners	4	French level
LK01	Korean level 1	4	Korean level
LK08	Korean - preparation to TOPIK exam	4	Korean level
LR00	Russian for beginners	4	French level
LS00	Spanish fo beginners	4	French level
LS01	Spanish level 1	4	Spanish level
LS02	Spanish level 2	4	Spanish level
LS03	Spanish level 3	6	Spanish level

RÉPUBLIQUE FRANÇAISE
Liberté
Égalité
Fraternité

UTBM
université de technologie
Belfort-Montbéliard

DISCOVER OUR FRENCH LESSONS

5 different levels

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

Small classes

15 students maximum for a personnalised teaching

Discovery of French culture

For a total immersion

Classes certified "Label Qualité FLE"

A guarantee of quality

[flə] QUALITÉ
FRANÇAIS LANGUE ÉTRANGÈRE
Label officiel délivré par l'État
RÉPUBLIQUE FRANÇAISE

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

29 mars 2024 - 28 mars 2028