

International Master Polymer Science



- Heads:

Strasbourg:
J. Combet

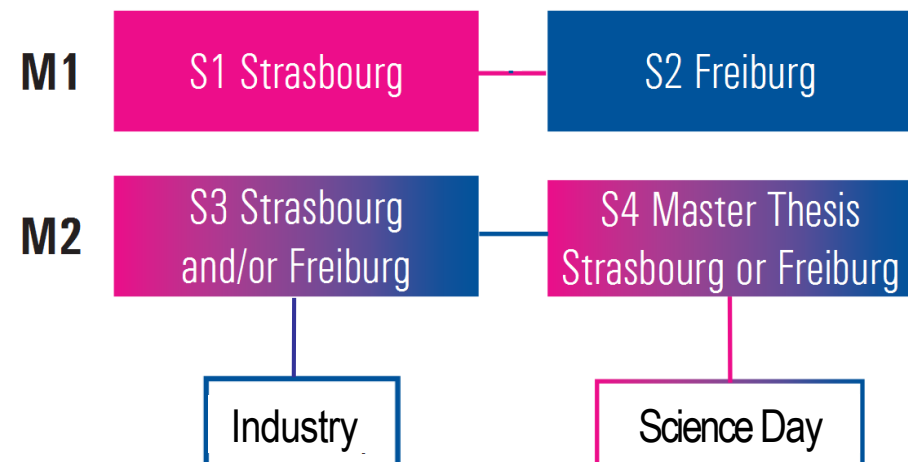
Freiburg:
P. Shastri

- Coordinators:

Ms A. Rajoie
rajoie@unistra.fr

Ms D. Finke
koordination-master-international@cup.uni-freiburg.de

- Programme:



Semester 1: Strasbourg

M1

S1 Strasbourg

S2 Freiburg

M2

S3 Strasbourg
and/or Freiburg

S4 Master Thesis
Strasbourg or Freiburg

Industry

Science Day

Compulsory Modules		24 ECTS
1. <i>Introduction to Polymer and Soft Matter Science</i>		
1.1. - Polymer science	6	Jérôme Combet combet@unistra.fr
1.2. - Colloidal science		
2. <i>Polymer Characterization</i>	5	Maurice.brogly maurice.brogly@uha.fr
3. <i>Basics of Polymer Chemistry</i>	5	Philippe Mésini mesini@unistra.fr
4. <i>Introduction to Materials Mechanics & Rheology</i>		
4.1 - Mechanics of Materials	5	Vincent Le Houérou v.lehouerou@unistra.fr
4.2 - Rheology		
5. <i>Languages – French/German</i>	3	Mireille Leyendecker mireille.leyendecker@unistra.fr

Elective Modules (6 credits at least)		6 ECTS
6. <i>Statistical Physics - Introductory course</i>	3	Pierre Muller pierre.muller@ics-cnrs.unistra.fr
7. <i>Quantum Mechanics - Introductory course</i>	3	Emmanuel Fromager fromagere@unistra.fr
8. <i>Advanced Polymer Chemistry</i>	3	Delphine CHAN-SENG delphine.chan-seng@ics-cnrs.unistra.fr

Choose 2 modules among 3



Some classes start
this week !

Semester 2: Freiburg

Macromolecular Practical
9 ECTS

Major Modules
15 ECTS

Methods & Concepts
or Term Paper (Physics)
Language & Intercultural
6 ECTS

Advanced Macromolecular Materials
and Nanostructure

Macromolecular Engineering
and System Integration

Biomaterials and Biosystems

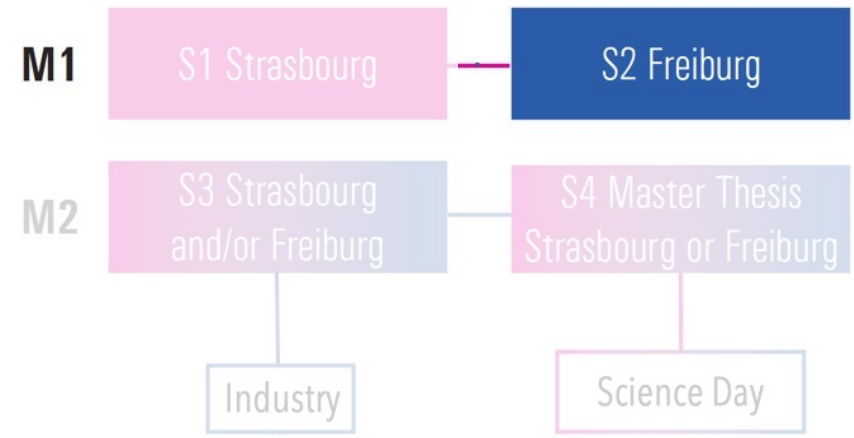
Bio-based Materials

Physical Processes of Self-Assembly and
Pattern Formation
Physical Processes of Self-Assembly and
Pattern Formation - Tutorial
Functional polymers for sustainable deve-
lopment
MC V Soft Matter and Bio Nanosciences
Basic principles of polymer technology

Methods and Techniques in Biomaterial
Science
MC IV Materials in Life Sciences
Progress in Biomaterials Engineering
Progress in Biomaterials Engineering -
exercise
Aspects of Freeform Fabrication and 3D-
Printing
3D-Printing of Biomaterials

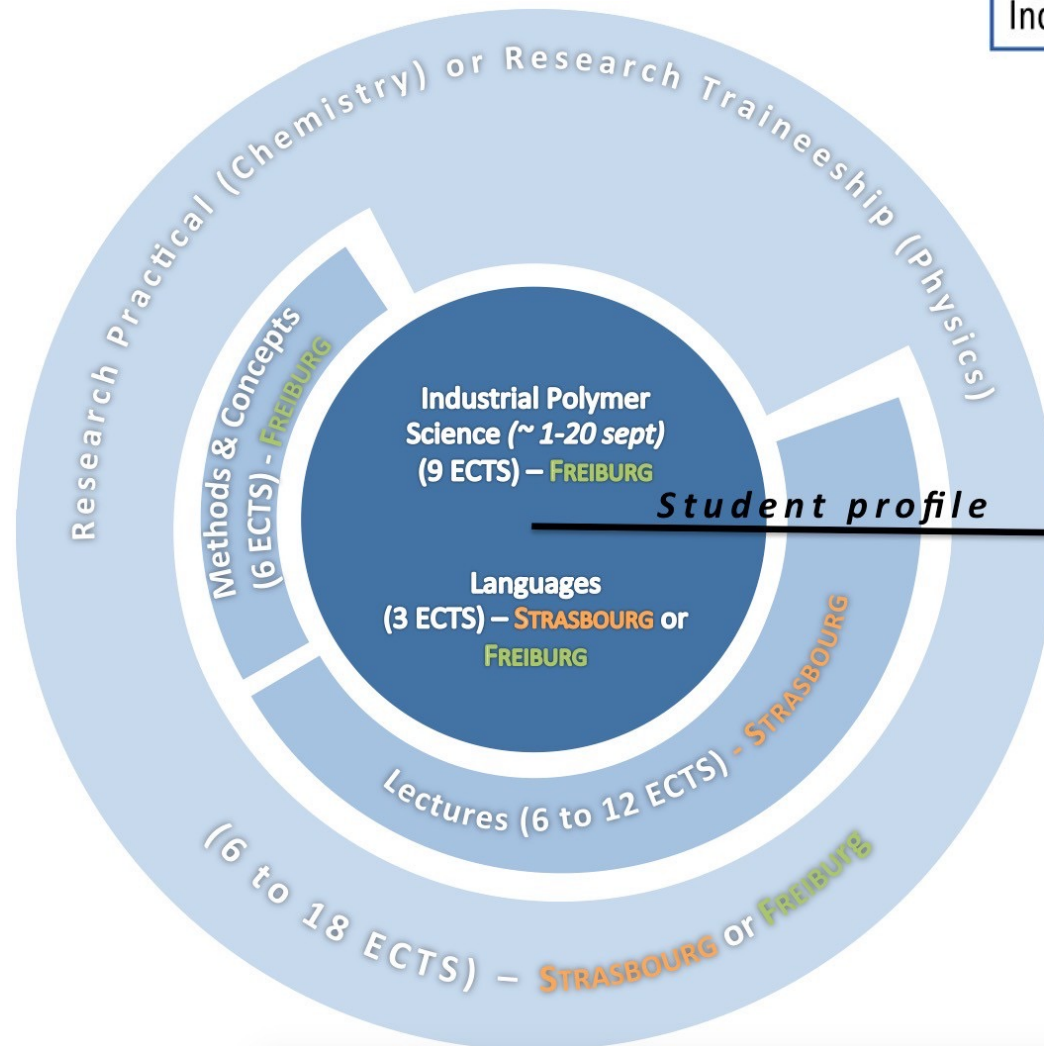
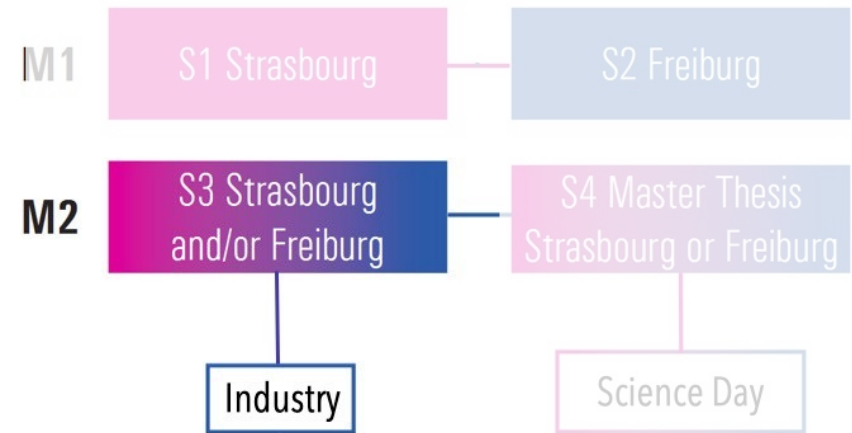
Oberflächenanalyse / Surface Analysis -
Vorlesung
Oberflächenanalyse – Praktikum / Surface
Analysis Laboratory
Basic principles of polymer technology
Grenzflächen für bioanalytische Systeme /
Interfaces for Bioanalytical Systems - Vor-
lesung
Von Mikrosystemen zur Nanowelt / From
Microsystems to the Nanoworld - Vorlesung
Polymer Processing and Microsystems
Engineering - Vorlesung

MC V Soft Matter and Bio Nanosciences
Physical and Mechanical Behavior of Wood
Bio-based Polymers
Bioinspirierte Funktionsmaterialien / Bioin-
spired functional materials - Vorlesung



Semester 3: «à la carte» Strasbourg and/or Freiburg

« à la carte » for specialization according to individual preferences



« à la carte » example:

Industrial Polymer Sc. (FREIBURG)
9 ECTS

Languages (STRASBOURG)
3 ECTS

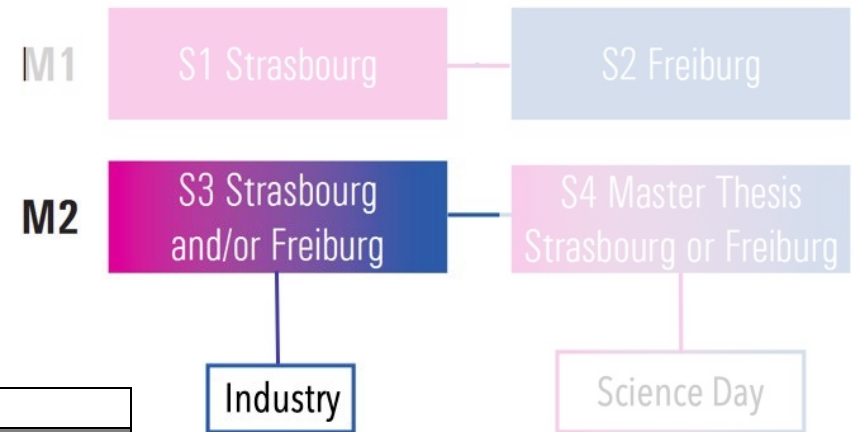
Lectures (STRASBOURG)
12 ECTS

Research Practical (STRASBOURG)
6 ECTS

= 30 ECTS

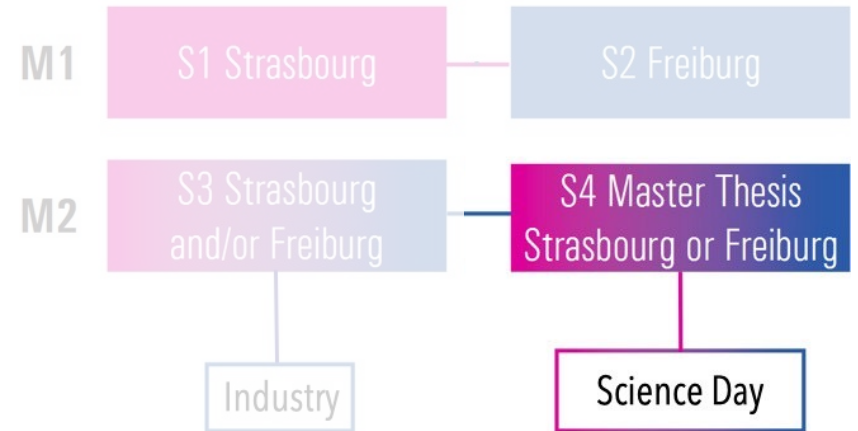
Semester 3: «à la carte» Strasbourg and/or Freiburg

« à la carte » for specialization according to individual preferences

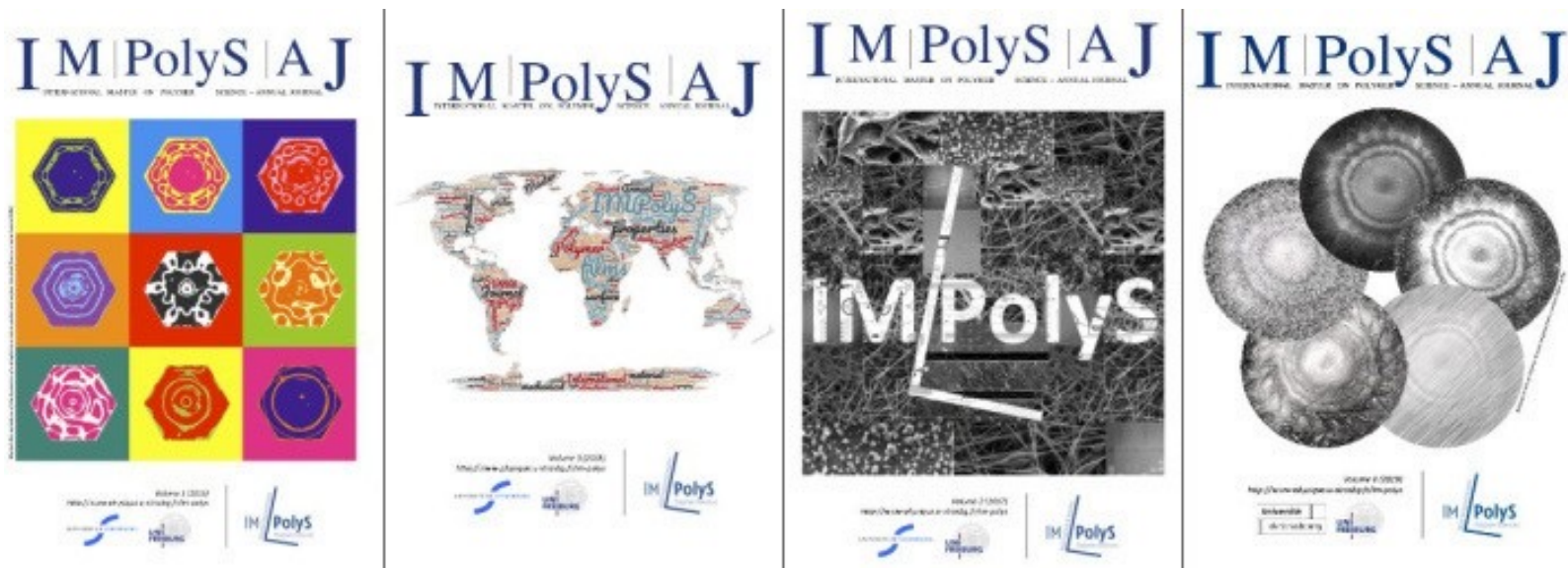


choose 1 out of 2	Industrial Polymer Science (~july-august)	Freiburg	<input checked="" type="checkbox"/> 9 ECTS			
	Languages	Strasbourg	<input type="checkbox"/> 3 ECTS		<input type="checkbox"/> Français <input type="checkbox"/> Deutsch	
	Languages	Freiburg	<input type="checkbox"/> 3 ECTS		<input type="checkbox"/> Français <input type="checkbox"/> Deutsch	
choose 1 out of 2	Lectures	Strasbourg				
	<i>Physics oriented</i>					
	<input type="checkbox"/> Physical and mechanical properties of polymer surfaces (3 ECTS) ¹					
	<input type="checkbox"/> Advanced statistical mechanics : out-of-equilibrium processes (6 ECTS) ²					
	<input type="checkbox"/> Interactions in soft condensed matter (3 ECTS) ²					
	<input type="checkbox"/> Surfaces and Interfaces in soft condensed matter (3 ECTS) ²					
	<input type="checkbox"/> Polymer processing (3 ECTS) ¹ - in French -					
	<input type="checkbox"/> Composites: materials, structures and processes (3 ECTS) ¹ - in French -					
	<input type="checkbox"/> Rheology of complex fluids (3 ECTS) ¹		<input type="checkbox"/> 6 ECTS	<input type="checkbox"/> 9 ECTS	<input type="checkbox"/> 12 ECTS	
	<i>Chemistry oriented</i>					
<input type="checkbox"/> Macromolecular design and engineering (3 ECTS) ¹						
<input type="checkbox"/> Polymer reaction engineering (3 ECTS) ¹						
<i>Physico-Chemistry oriented</i>						
<input type="checkbox"/> Bioplastics (3 ECTS) ¹ - in French -						
<input type="checkbox"/> Polymers in solutions and dispersed media: microencapsulation, coatings and biomedical applications (3 ECTS) ¹						
Research Practical (Chemistry) or Research Traineeship (Physics)	Strasbourg	<input type="checkbox"/> 6 ECTS (1 day in lab)	<input type="checkbox"/> 9 ECTS (1½ day in lab)	<input type="checkbox"/> 12 ECTS (2 days in lab)	<input type="checkbox"/> 18 ECTS (3 days in lab)	
Research Practical (Chemistry) or Research Traineeship (Physics)	Freiburg	<input type="checkbox"/> 9 ECTS	<input type="checkbox"/> 12 ECTS	<input type="checkbox"/> 18 ECTS		
Methods & Concepts (~july-august)	Freiburg	<input type="checkbox"/> 6 ECTS				
TOTAL		30 ECTS				

Semester 4: Strasbourg or Freiburg



- **Master's research internship and master thesis** (4-6 months in lab)
- Annual **Science Day** where students can present their work



Enrollment:

- Strasbourg or Freiburg
 - Where you pay the fees
 - For the 4 semesters
 - No influence on the study course
- Need to enroll at both universities
 - 1st at the home university
 - 2nd at the partner university
 - Enrollment Strasbourg valid for 2 semesters
 - Enrollment in Freiburg valid for 1 semester
 - To be renewed every semester

HOME UNIVERSITY STRASBOURG



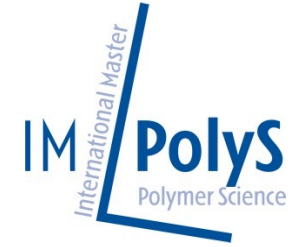
You applied through a platform (Mon Master or Campus France): Enrollment in Strasbourg

- 1) Go to <https://cvec.etudiant.gouv.fr/> and follow instructions to pay the CVEC (105€)
- 2) Enroll online:
<https://iaprimo.unistra.fr/iaprimo/ident1.jsf> and pay the fees online for the Master (254€)
- 3) Send an email to rajoie@unistra.fr to confirm your enrollment

You did not apply through a platform, you applied by email: Enrollment in Strasbourg

- 1) Go to <https://cvec.etudiant.gouv.fr/> and follow instructions to pay the CVEC (105€)
- 2) Send by email (rajoie@unistra.fr):
 - . Scan of ID
 - . Copy of last diploma
 - . Proof of payment of the CVEC (attestation de CVEC)+ when you would like to come for enrollment
- 3) After enrollment, pay the fees for the Master: 254€

HOME UNIVERSITY FREIBURG



 *You chose Freiburg as home university and already enrolled with them: enrollment in Strasbourg*

1) Send by email (rajoie@unistra.fr):

.Scan of ID

.Copy of last diploma

.Enrollment certificate from Freiburg

+ when you would like to come for enrollment

★ Practical information

- Website of the master



<https://im-polys.unistra.fr>

The screenshot shows the homepage of the IM-PolyS website. At the top, there is a blue header with the text 'International Master of Polymer Science' and 'Freiburg ---- Strasbourg'. To the right of this header is the logo for 'Université de Strasbourg'. Below the header, there is a navigation menu on the left with items: Home, Programme and Courses, Internship /Master Thesis, Application, After admission, After arrival, Student life, Financial issues, and Contacts. The main content area features a pink heading 'Build your career in Polymer Science on an international level' and a sub-heading 'An international Master programme between Freiburg and Strasbourg'. Below this, there is a paragraph describing the program as a 2-year study programme leading to a double Master degree, with English as the language of instruction. To the right of the text is a map of the region showing the border between France and Germany, with markers for Strasbourg, Freiburg, and Mulhouse.

UNI FREIBURG

International Master of Polymer Science
Freiburg ---- Strasbourg

Université de Strasbourg

You are here: [Home](#) >

Build your career in Polymer Science on an international level

An international Master programme between Freiburg and Strasbourg

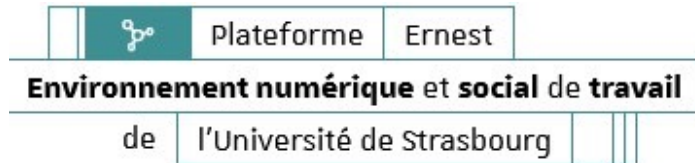
Built on a long-standing transnational collaboration in training and research, the [University of Freiburg](#) in Germany and the [University of Strasbourg](#) in France offer an International Master programme in Polymer Science (IM-PolyS). This is a 2 years study programme leading to a double Master degree awarded by both universities. The language of instruction is English - no knowledge of French or German is required.

In the intercultural environment of the European Campus, the IM-PolyS aims at providing a comprehensive and interdisciplinary training including chemical, physical and biological aspects of polymer and soft matter sciences. Contacts with industry and early possibilities to specialize according to individual preferences will offer broad opportunities for a career in the industry or academia.

A map of the region around Strasbourg, France, and Freiburg, Germany. The map shows the border between France and Germany (Deutschland). Strasbourg is marked with a red square, Freiburg with a blue square, and Mulhouse with a black square. The map is oriented vertically with Strasbourg at the top and Freiburg at the bottom.

★ Practical information

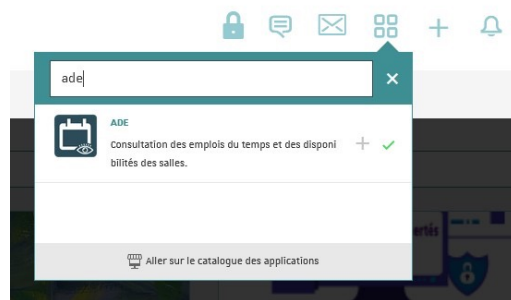
- Digital Work Environment (ERNEST)



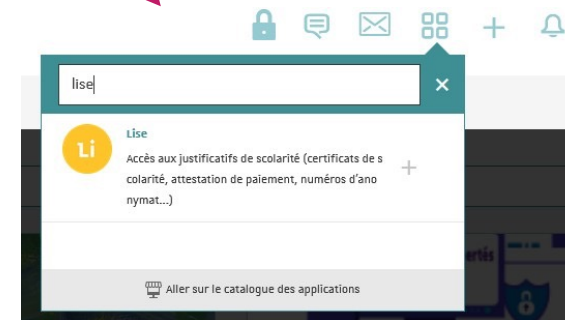
Once enrollment is complete, you receive an email.
Follow the instructions to activate your Ernest account
and create your student card.



Accès to Unistra email and
all the different apps



ADE for your timetable



Lise for enrollment certificate or proof of payment

★ Practical information

Timetable of the master visible with the application « ADE » on Ernest (only once enrollment is complete)



Path : ADE → Etudiants → Faculté de Physique & Ingénierie → Masters → Matériaux →
→ M1 IM PolyS (franco-allemand)

15/09/25					
Lundi 15/09/2025	Mardi 16/09/2025	Mercredi 17/09/2025	Jeudi 18/09/2025	Vendredi 19/09/2025	
08h00				Physique statistique - TD M1 Sciences et Génie des Matériaux M1 IM PolyS (franco-allemand) PHY S 103 Muller Pierre 08h00 - 10h00 1/8	
08h30					
09h00				Mécanique quantique - CM M1 Sciences et Génie des Matériaux M1 IM PolyS (franco-allemand) PHY S 113 Fromager Emmanuel 10h00 - 12h00 2/10	
09h30					
10h00	Physique statistique - CM M1 Sciences et Génie des Matériaux M1 IM PolyS (franco-allemand) PHY S 346 Muller Pierre 10h00 - 12h00 1/8			Polymer Characterization_CM M1 IM PolyS (franco-allemand) PHY S 112 Brogly Maurice 14h30 - 17h30 1/8	
10h30					
11h00				Physique statistique - CM M1 Sciences et Génie des Matériaux M1 IM PolyS (franco-allemand) PHY S 111 Muller Pierre 13h00 - 15h00 2/8	
11h30					
12h00				Polymer Characterization_CM M1 IM PolyS (franco-allemand) PHY S 112 Brogly Maurice 14h30 - 17h30 1/8	
12h30					
13h00				Polymer Characterization_CM M1 IM PolyS (franco-allemand) PHY S 112 Brogly Maurice 14h30 - 17h30 1/8	
13h30					
14h00	Mécanique quantique - CM M1 Sciences et Génie des Matériaux M1 IM PolyS (franco-allemand) PHY S 105 Fromager Emmanuel 14h00 - 16h00 1/10			Polymer Characterization_CM M1 IM PolyS (franco-allemand) PHY S 112 Brogly Maurice 14h30 - 17h30 1/8	
14h30					
15h00				Polymer Characterization_CM M1 IM PolyS (franco-allemand) PHY S 112 Brogly Maurice 14h30 - 17h30 1/8	
15h30					
16h00				Polymer Characterization_CM M1 IM PolyS (franco-allemand) PHY S 112 Brogly Maurice 14h30 - 17h30 1/8	
16h30					
17h00				Polymer Characterization_CM M1 IM PolyS (franco-allemand) PHY S 112 Brogly Maurice 14h30 - 17h30 1/8	
17h30					
18h00				Polymer Characterization_CM M1 IM PolyS (franco-allemand) PHY S 112 Brogly Maurice 14h30 - 17h30 1/8	

Canceled

Canceled

First week

★ Practical information

-Timetable of the master visible with the application « ADE » on Ernest (only once enrollment is complete)

Path : ADE → Etudiants → Faculté de Physique & Ingénierie → Masters → Matériaux →
→ M1 IM PolyS (franco-allemand)



Lundi 15/09/2025	Mardi 16/09/2025	Mercredi 17/09/2025	Jeudi 18/09/2025	Vendredi 19/09/2025
				Physique statistique - TD M1 Sciences et Génie des Matériaux M1 IM PolyS (franco-allemand) PolyS S 101 Matière Pierre (08:00 - 09:00) 101
	Physique statistique - CM M1 Sciences et Génie des Matériaux M1 IM PolyS (franco-allemand) PolyS S 100 Matière Pierre (10:00 - 11:00) 101			Mécanique quantique - CM M1 Sciences et Génie des Matériaux M1 IM PolyS (franco-allemand) PolyS S 113 Pratiquant Ponsard (14:00 - 15:00) 113
			Physique statistique - CM M1 Sciences et Génie des Matériaux M1 IM PolyS (franco-allemand) PolyS S 111 Matière Pierre (10:00 - 11:00) 111	
	Mécanique quantique - CM M1 Sciences et Génie des Matériaux M1 IM PolyS (franco-allemand) PolyS S 102 Pratiquant Ponsard (14:00 - 15:00) 102	Polymère Caractérisation - CM M1 IM PolyS (franco-allemand) Matière Pierre (14:00 - 15:00) 104		Polymère... M1 Sciences et Génie des Matériaux M1 IM PolyS (franco-allemand) PolyS S 112 Matière Pierre (10:00 - 11:00) 112
Canceled				Canceled

- Your **Own timetable** is also visible with the application « mon emploi du temps » (ERNEST)

The screenshot shows the Ernest platform interface. At the top, there is a search bar and navigation tabs for 'L'UNIVERSITÉ', 'MON TRAVAIL', and 'RESSOURCES'. A 'Flash' notification is visible on the left. The 'APPLICATIONS' menu is open, displaying various tools like 'Catalogue des applications', 'Moodle', 'Partage', 'Bibliothèques', 'ADE', 'SosieWebEms', 'EVA', 'Mon emploi du temps', 'Anti-plagiat', 'OSE', and 'Annuaire'. The 'Mon emploi du temps' icon is circled in red.

Practical information: home university Strasbourg

- Erasmus+ mobility scholarship
 - For semester at partner university
 - 360 € / month (in 2 installments)

- Bourse Grand-Est
 - Only for Strasbourg home university students
 - 600€ for the semester in Freiburg
 - Need to live and pay rent in Germany during the semester

- Application and/or information through the coordinators



✦ ***Practical information: health insurance for students***



- Home university **Strasbourg** with French visa (until age 28)
 - Online registration: <https://etudiant-etranger.ameli.fr/#/>
 - Free
- Home university **Freiburg** (until age 30)
 - Take out health insurance for students (TK, AOK, etc.)
- Student's health insurance valid in both countries but you need to ask the EHIC (european health insurance card)

✦ **Practical information: Visa**



- If you live in Strasbourg - French visa:
 - Validate your VLTS: <https://administration-etrangers-en-france.interieur.gouv.fr/particuliers/#/>

- If you live in Freiburg/Germany – German visa
 - Register your address with local authorities
 - Apply for residence permit:
 - ♦ Living in Freiburg:
<https://www.freiburg.de/pb/,1.en/1547375.html>
 - ♦ Living in another city: at the local „Bürgerhaus“ (city hall)



French visa holders will have to apply to a temporary residence permit in Germany for 2nd semester

- BAMF procedure at least 2 months beforehand
- For 360 days