

# Master of Science in Sustainable Materials

## Some important Information

Albert-Ludwigs-Universität Freiburg



**UNI  
FREIBURG**

# Master of Science in Sustainable Materials



## Polymer Science Bilingual

## Polymer Science Bilingual

## Functional Materials

Contact person: **Prof. Prasad Shastri**

Coordinator: Daniela Finke  
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Contact person: **Prof. Stephan Schmidt**

[stephan.schmidt@makro.uni-freiburg.de](mailto:stephan.schmidt@makro.uni-freiburg.de)

Coordinator: Dr. Ulla Gerling-Driessen  
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Contact person: **Prof. Claas Müller**

Coordinator: Prof. Claas Müller, Dr. Andreas Goralczyk  
[fumat@uni-freiburg.de](mailto:fumat@uni-freiburg.de)

- Dean Chemistry: Prof. Henning Jessen
- Dean Technical Faculty: Prof. Bastian Rapp
- Examination office: Erika Dunai Kovacs, [erika.dunai@mail.cup.uni-freiburg.de](mailto:erika.dunai@mail.cup.uni-freiburg.de)

## Semester Dates and Teaching Periods

The academic year is divided in winter- (01.10. - 31.03.) and summer semester (01.04. - 30.09.).

Teaching Periods		
Semester	Beginning	End
Winter Semester 2025/26	Monday, 13. October 2025	Saturday, 07. February 2026
Summer Semester 2026	Monday, 20. April 2026	Saturday, 25. July 2026

## Exam week: last week of the semester during lecture time

Lecture and exercise-free days		
Winter Semester 2025/26	All Saints' Day	Saturday, 01. November 2025
	Christmas break	Tuesday, 23. December 2025 until Tuesday, 06. January 2026
Summer Semester 2026	May Day	Friday, 01. May 2026
	Ascension	Thursday, 14. May 2026
	Pentecost break	Monday, 26. May 2026 until Saturday, 30. May 2026
	Corpus Christi	Thursday, 4. June 2026

[https://www.studium.uni-freiburg.de/en/dates-deadlines-events/semester-dates-and-teaching-periods?set\\_language=en](https://www.studium.uni-freiburg.de/en/dates-deadlines-events/semester-dates-and-teaching-periods?set_language=en)

# Programme overview:



4. FS	Master Module (30 ECTS)				
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3. FS	Industrial Polymer Science (9 ECTS)	Advanced Lab C (18 ECTS)			Language Course III (3 ECTS)
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OR

3. FS	Industrial Polymer Science (9 ECTS)	Advanced Lab B (12 ECTS)	Advanced Polymers or Methods & Concepts (6 ECTS)	Language Course III (3 ECTS)
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OR

3. FS	Industrial Polymer Science (9 ECTS)	Advanced Lab A (9 ECTS)	Advanced Polymers (9 ECTS)	Language Course III (3 ECTS)
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## In Freiburg

2. FS	Lab Course Macromolecular Materials & Chemistry (9 ECTS)	Major Module (15 ECTS)	Intercultural Competences (4 ECTS)	Language Course II (2 ECTS)
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## In Strasbourg

1. FS	Chemistry of Macromolecular Materials (5 ECTS)	Statistical Physics or Quantum Mechanics (6 ECTS)	Intro Continuum & Materials Mechanics (5 ECTS)	Intro Polymer & Soft Matter Sciences (6 ECTS)	Polymer Characterization (5 ECTS)	Language Course I (3 ECTS)
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# 1<sup>st</sup> Semester Modules in Strasbourg



1. FS	Chemistry of Macromolecular Materials (5 ECTS)	Statistical Physics <i>or</i> Quantum Mechanics (6 ECTS)	Intro Continuum & Materials Mechanics (5 ECTS)	Intro Polymer & Soft Matter Sciences (6 ECTS)	Polymer Characterization (5 ECTS)	Language Course I (3 ECTS)
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Module	Mode Lecture(V) Practice(Ü)	Mandatory(P)/ Elective(WP)	ECTS- Points	Semester	Academic Performance (PL)/ Examination Performance (SL)
Basics of Polymer Chemistry	V + Ü	P	5	1	PL*
Elective Statistical Physics and/or Quantum Mechanics	V + Ü	WP	6	1	PL*
Introduction to Continuum and Materials Mechanics	V + Ü	P	5	1	PL*
Introduction to Polymer and Soft Matter Sciences	V + Ü	P	6	1	PL*
Language Course I	Ü	WP	3	1	PL*
Polymer Characterization	V + Ü	P	5	1	PL*

# 2nd Semester Modules in Freiburg



2. FS	Lab Course Macromolecular Materials & Chemistry (9 ECTS)	Major Module (15 ECTS)	Intercultural Competences (4 ECTS)	Language Course II (2 ECTS)
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Module	Mode	Mandatory/ Elective	ECTS	Semester	Acad. Perf./ Examin. Perf.
Lab Course Macromolecular Materials and Chemistry	Pr	P	9	2	SL PL: schriftliche Ausarbeitung, mündliche Präsentation und praktische Leistung
Major Module	V+Pr+Ü	WP	15	2	SL PL: Klausur oder mündliche Prüfung
Language Course II	Ü	WP	2	2	SL
Intercultural Competences	V+Ü+S	P	4	2	SL

**V = Lecture, Ü = Exercise, PL = Examination Performance**

**P = Mandatory Subject, WP = Elective Subject**

# 2<sup>nd</sup> Semester - Lab Course Macromolecular Materials and Chemistry



Name of Module	Number of Module
Lab Course Macromolecular Materials and Chemistry	(is generated automatically)
Responsible Person	
Prof. Dr. Laura Hartmann	
Department / Faculty	
Faculty for Chemistry and Pharmacy	

ECTS-Points	9
Workload (in hours)	270
On-Campus Studies (in hours)	135
Self-Study (in hours)	135
Weekly Hours per semester (SWS)	9
Empfohlenes Fachsemester	2
Duration of Module	1 Semester
Mandatory/Elective (P/WP)	Mandatory
Offer Frequency	Only Winter Semester

- Four weeks of preparation, seminars and practical experiences in the lab using methods in polymer science both, synthesis and analytical methods

# 2<sup>nd</sup> Semester - Lab Course Macromolecular Materials and Chemistry



Important Dates:

**Lab course: 23.02.26 - 20.03.26**

**Introduction:**

23.2.26 (Mo) 14:15 bis 16:00 HS

- Introduction and safety instruction (MANDATORY!)

**Lab course:**

24.02.26 – 20.03.26 during 09:00 and 18:00

-Individual Experiments (details and script will be sent around via Email a few weeks prior to the start of the lab course.)

# 2<sup>nd</sup> Semester - Major Modules: S1



Name of Module	Number of Module
Major Module S1: Modern Polymers – Synthesis and Applications	(is generated automatically)
Responsible Person	
Prof. Dr. Laura Hartmann, Dr. Stephan Schmidt	
Department / Faculty	
Faculty of Chemistry and Pharmacy	

ECTS-Points	15
Workload (in hours)	450
On-Campus Studies (in hours)	135
Self-Study (in hours)	315
Weekly Hours per semester (SWS)	9
Recommended Semester	2
Duration of Module	1 Semester
Mandatory/Elective (P/WP)	Elective
Offer Frequency	Only Summer Semester

Participation requirements according to examination regulations
None.

# 2<sup>nd</sup> Semester - Major Modules: S2



Name of Module	Number of Module
Major module S2: Macromolecular Engineering and System Integration	(is generated automatically)
Responsible Person	
Prof. Dr. Jürgen Rühle	
Department / Faculty	
Technical Faculty	

ECTS-Points	15
Workload (in hours)	450
On-Campus Studies (in hours)	150
Self-Study (in hours)	300
Weekly Hours per semester (SWS)	10
Recommended Semester	2
Duration of Module	1 Semester
Mandatory/Elective (P/WP)	Elective
Offer Frequency	Only in Summer Semester
Participation requirements according to examination regulations	
None.	

# 2<sup>nd</sup> Semester - Major Modules: S3



Name of Module	Number of Module
Major module S3: Biomaterials and Biosystems	(is generated automatically)
Responsible Person	
Prof. Dr. Prasad Shastri	
Department / Faculty	
Faculty of Chemistry and Pharmacy	

ECTS-Points	15
Workload (in hours)	450 h
On-Campus Studies (in hours)	150
Self-Study (in hours)	300
Weekly Hours per semester (SWS)	10
Recommended Semester	2
Duration of Module	1 Semester
Mandatory/Elective (P/WP)	Elective
Offer Frequency	Only in Summer Semester

Participation requirements according to examination regulations
None.

# 2<sup>nd</sup> Semester – Language Course II



Name of Module		Number of Module
Language course II		(is generated automatically)
Department / Faculty		
Faculty of Chemistry and Pharmacy		
ECTS-Points	2	
Workload (in hours)	60 h	
On-Campus Studies (in hours)	30 h	
Self-Study (in hours)	30 h	
Weekly Hours per semester (SWS)	2	
Recommended Semester	2	
Duration of Module	1 semester	
Mandatory/Elective (P/WP)	Elective	
Offer Frequency	only in the summer semester	

Participation requirements according to examination regulations
None



[https://www.sli.uni-freiburg.de/german/courses/dkurse?set\\_language=en](https://www.sli.uni-freiburg.de/german/courses/dkurse?set_language=en)

The number of places is very limited.

Please select a language course at the SLI in good time **at the end of the first semester** and send your request to:

[koordination-master-international@cup-uni-freiburg.de](mailto:koordination-master-international@cup-uni-freiburg.de)

# 2<sup>nd</sup> Semester – Intercultural Competences



Name of Module		Number of Module
Intercultural Competences		(is generated automatically)
Department / Faculty		
Faculty of Chemistry and Pharmacy at Universität Freiburg / Faculté de physique et ingénierie de l'Université de Strasbourg		
ECTS-Points	4	
Workload (in hours)	120 h	
On-Campus Studies (in hours)	35 h	
Self-Study (in hours)	85 h	
Weekly Hours per semester (SWS)	2	
Recommended Semester	1 und 2	
Duration of Module	2 Semester	
Mandatory/Elective (P/WP)	P	
Offer Frequency	Winter and Summer Semester	

Participation requirements according to examination regulations
None.

# 3rd Semester Modules



3. FS	Industrial Polymer Science (9 ECTS)	Advanced Lab C (18 ECTS)		Language Course III (3 ECTS)
OR				
3. FS	Industrial Polymer Science (9 ECTS)	Advanced Lab B (12 ECTS)	Advanced Polymers or Methods & Concepts (6 ECTS)	Language Course III (3 ECTS)
OR				
3. FS	Industrial Polymer Science (9 ECTS)	Advanced Lab A (9 ECTS)	Advanced Polymers (9 ECTS)	Language Course III (3 ECTS)



- Additional classes that can be chosen from a selection of all chemistry disciplines
- Up to 9 ECTS as SL (academic performance)
- Usually only attendance, no exam
- Careful: if the courses are part of another module in the program, you can get Credit only once

Zugehörige Veranstaltungen					
Name	Art	P/WP	ECTS	SWS	Workload
Angewandte Elektrochemie	V	WP	3	2	90 h
Biomaterialien	V	WP	3	2	90 h
Electrochemical energy applications: fuel cells and electrolysis	V	WP	3	2	90 h
Electrochemical Methods for Engineers	V	WP	3	2	90 h
Glycopolymers	V	WP	3	2	90
Responsive and Adaptive Materials	V	WP	3	2	90
Sequence-controlled polymers	V	WP	3	2	90
Soft Matter	V	WP	3	2	90

# 3<sup>rd</sup> Semester Modules – Advanced Lab



Name of Module	Number of Module
Advanced Lab A / B / C	
Responsible Person	
Prof. Dr. Prasad Shastri	
Department / Faculty	
Faculty of Chemistry and Pharmacy of Universität Freiburg / Faculté de physique et ingénierie de l'Université de Strasbourg	

ECTS-Points	9 / 12 / 18
Workload (in hours)	270 h / 360 h / 540 h
On-Campus Studies (in hours)	3
Duration of Module	2 - 4 Monate
Mandatory/Elective (P/WP)	Elective
Recommended Semester	Every Semester
Participation requirements according to examination regulations	
None.	

Related Events					
Name	Mode	P/WP	ECTS	SWS	Work-load
Advanced Lab A	Presence	Elective	9		270 h
Advanced Lab B	Presence	Elective	12		360 h
Advanced Lab C	Presence	Elective	18		540 h

# 3<sup>rd</sup> Semester Modules – Methods and Concepts



Name of Module	Number of Module
Methods and Concepts	(is generated automatically)
Responsible Person	
Prof. Dr. Prasad Shastri	
Department / Faculty	
Faculty of Chemistry and Pharmacy and Technical Faculty	

ECTS-Points	6
Workload (in hours)	180
On-Campus Studies (in hours)	
Self-Study (in hours)	
Weekly Hours per semester (SWS)	
Recommended Semester	1-3
Duration of Module	Variable
Mandatory/Elective (P/WP)	Elective
Offer Frequency	Every Semester



## Participation requirements according to examination regulations

From the range of courses offered by the faculties responsible for the degree program, at least 6 ECTS credits must be earned as part of the coursework, in consultation with the program director. The available course offerings vary greatly from year to year, so that previous courses may be discontinued and new ones introduced. An update is provided at the beginning of each semester by the study committee.

The table below lists recommended courses that can be taken within the Methods and Concepts module. Additionally, with the approval of the program director, courses offered by other faculties may also be taken. Authorization is granted by the module coordinators.

**Note:** Only lectures that have not already been taken or are not being taken as part of the Major Module may be counted toward the Methods and Concepts module.

# 3<sup>rd</sup> Semester Modules – Language Course III



Name des Moduls		Nummer des Moduls
Language course III		(is generated automatically)
Department / Faculty		
Faculty of Chemistry and Pharmacy at Universität Freiburg / Faculté de physique et ingénierie de l'Université de Strasbourg		
ECTS-Points	3	
Workload (in hours)	90 h	
On-Campus Studies (in hours)	45 h	
Self-Study (in hours)	45 h	
Weekly Hours per semester (SWS)	3	
Recommended Semester	3	
Duration of Module	1 semester	
Mandatory/Elective (P/WP)	WP	
Offer Frequency	only in the winter semester	

Participation requirements according to examination regulations
None

# Enroll for classes and exams (HisInOne Platform)



- Enroll for all classes in HisInOne (My account log in)
- Register for exam in HisInOne (mandatory to receive grades)
- Sign off if necessary (change your mind)
- Registering for exam is possible until 5 days prior to the exam

universität freiburg HisInOne

Home Administration My Studies Course organization Achievement **Studies offered** Curriculum Designer Organisa

You are here: Home > Studies offered > Search for courses

Search for courses

New search Change search

Search terms: Search terms: methods ; Term: ws 2025

Found Courses

	Number	Term-independent title	Term dependent title	Term	Kind of course	Teaching language	Responsible
	08LE05V-ID030205	<a href="#">Advanced Fluorescence and Force Spectroscopy Methods</a>	Advanced Fluorescence and Force Spectroscopy Methods	ws 2025	lecture course	english	Dr. Bianca H Bizan Nicola Balzer
	09LE03Ü-SP2-01_ILP	<a href="#">Advanced Methods in Immunology</a>	Advanced Methods in Immunology	ws 2025	exercise course	english	PD Dr. Marta Anton Catho Olaf Groß, P Martin
	08LE05V-ID050016-SusMat	<a href="#">Advanced Synthesis - Modern Methods of Polymer Synthesis - Part 1</a>	Advanced Synthesis - Modern Methods of Polymer Synthesis - Part 1	ws 2025	lecture course	english	Prof. Dr. Lau
	08LE05V-ID050017-	<a href="#">Advanced Synthesis -</a>	Advanced Synthesis - Modern Methods of	ws	lecture	english	Prof. Dr. Ste

# MyAccount Login



Set password in „My Account“ (<https://myaccount.uni-freiburg.de/uadmin/login>)

Tutorial here:

<https://wiki.uni-freiburg.de/rz/doku.php?id=wlan-eduroam>

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**IMPORTANT:**

Make sure to stay enrolled at both universities (Freiburg & Strasbourg) for the whole Master Program!


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# Enroll for classes and exams (HisInOne)

## WIKI and FAQ



<https://wiki.uni-freiburg.de/campusmanagement/doku.php?id=start>



Navigation

- **Start**
- Bewerben
- Studieren
- Promotionsinteresse
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- Sachbearbeitung
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Suche

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Artikel Diskussion Ältere Versionen Aboverwaltung Export: ODT

## Wiki der Abteilung Campus Management

Sie befinden sich hier: [Wiki: Campus Management HISinOne](#) » [HISinOne](#)

### HISinOne

#### Anleitungen für Bewerber/innen

#### Anleitungen für Bewerber/innen

Für die meisten Fächer bewerben Sie sich direkt bei der Universität Freiburg über das Campus-Management Portal [HISinOne](#).

Über HISinOne bewerben sich:

- Alle deutschen und internationalen Bewerber/innen für **grundständige Studiengänge (Bachelor und Staatsexamen)**
- Alle deutschen und internationalen Bewerber/innen für grundständige Studiengänge (Bachelor und Staatsexamen) für ein **höheres Fachsemester**
- Alle deutschen und internationalen Bewerber/innen für **ausgewählte Masterstudiengänge**
- Alle deutschen und internationalen Bewerber/innen für **alle Master of Education-Studiengänge**

#### Manual for Applicants

For most fields of study at the University of Freiburg, you can apply directly through the Campus Management Portal [HISinOne](#), which is relevant for the following groups of applicants:

- German and international applicants applying for admission to **degree programs that do not require a prior degree** (i.e., bachelor, state examination, teaching qualification for secondary school)
- German and international applicants applying for admission to **higher semesters** of degree programs that do not require a prior degree (i.e., bachelor, state examination, teaching qualification for secondary school)
- German and international applicants applying for admission to **selected master's programs**
- German and international applicants applying for admission to **all master of education**

# Learning platform ILIAS




- Register with our Uni-Account with your student-ID.
- [https://www.rz.uni-freiburg.de/en/services/uniaccount-en/whatis-ua-en?set\\_language=en](https://www.rz.uni-freiburg.de/en/services/uniaccount-en/whatis-ua-en?set_language=en)

The screenshot shows the ILIAS interface for the course 'Sustainable Materials - Polymer Sciences (binational: 'ImPolys')| Master of Science'. The top navigation bar includes the university logo, search, and user profile. The breadcrumb trail shows the path: ...azin > Semesterübergreifende Inhalte > Fakultät für Chemie und Pharmazie > Studiengangskoordination Chemie: Informationen zum Studium > Sustainable Materials - Polymer Sciences (binational: 'ImPolys')| Master of Science. The main content area features a sidebar with navigation options like 'Übersicht', 'Meine Kurse und Gruppen', 'Magazin', 'KI Tools', 'Support', 'Kommunikation', and 'Mein Arbeitsraum'. The main content area has tabs for 'Inhalt', 'Info', 'Einstellungen', 'Mitglieder', 'Lernfortschritt', 'Metadaten', and 'Export'. Below the tabs, there are buttons for 'Neues Objekt hinzufügen', 'Voransicht als Mitglied aktivieren', and 'Seite bearbeiten'. A list of course modules is displayed, including 'General information', 'Presentation of the Major Modules', 'Module guide & examination regulations', 'Examinations: schedules & registration deadlines', 'Methods and concepts', 'Intercultural course', 'Language courses', 'Advanced lab course - Internship', and 'Forms'. A calendar widget on the right shows the current date as October 23, 2025.

# Student Service Center



- <https://www.studium.uni-freiburg.de>

Application and Admission		
Enrolment		
Re-registration	Registration Office	Tuition Fees
Leave Of Absence		
Changing Fields and Institutions, Study Space Exchange	Application and Admission	Additional program for international students (APIS)
Disenrolment	Registration	UniCard
Tuition Fees	Leave Of Absence	Offers for Beginning Students
Additional program for international students (APIS)	Changing Fields/Courses of Study	myUFR - The App for Students
UniCard	Disenrolment	Certificates of Enrollment
Certificates of Enrolment	Maternity Protection for Pregnant and Nursing Students	Dates, Deadlines & Events
Campus Management	Parallel Studies	Campus Management
Offers for beginning students	Offers for the career start	Student mental health
myUFR		
Maternity Protection for Pregnant and Nursing Students	Struggling with your studies? Here's where you can turn for support	Language Certificates
Parallel studies at the		



- Mensa/Cafeteria (autoload or top-up machine in mensa)
- See SWFR: <https://www.swfr.de/autoload>
- Library
- ID for semester ticket
- Access key to (most) buildings
- Pick up at Service Centre (Sedanstr. 6)
- Details: [https://www.studium.uni-freiburg.de/en/student-services/unicard?set\\_language=en](https://www.studium.uni-freiburg.de/en/student-services/unicard?set_language=en)

# Alumni Network



UNI  
FREIBURG

**Shubham Tiwari**

PhD Candidate

MSc. Polymer Science

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