

How to choose Computer Science courses at FAU

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<https://www.informatik.studium.fau.de/erasmus-incoming-students>

On pages 3-5 you can find a guide how to search for a specific course. For example, if you already found your desired courses in the List of English Courses for Computer Science at FAU (see <https://www.informatik.studium.fau.de/studierende/erasmus-incoming-students> for a PDF)

- [Starting from page 6](#), you can find a guide on how to look up other courses and how to check in which language these are taught.
- [Starting from page 22](#), you can find a guide on how to filter for courses taught in English at the department of computer science.

Go to <https://www.campo.fau.de/> and choose English as language

The screenshot shows the 'campo' website interface. At the top left is the 'campo' logo. To the right are login fields for 'Username' and 'Password', a 'Login' button, and a link for 'SSO-Login Can't log in?'. In the top right corner, a 'Default language' dropdown menu is circled in red, showing 'English' selected. A red arrow points from the text above to this dropdown. Below the header is a navigation bar with 'Home', 'Admission', 'Studies offered', 'Organisation', and 'Service'. The 'Studies offered' menu item is highlighted with a blue bar and circled in red. A dropdown menu is open under 'Studies offered', showing options like 'Search for courses' and 'View module descriptions'. A 'Close [ESC]' button is visible at the bottom of the dropdown. On the right side of the page, there is a 'Help & contact' section with text about getting help and technical questions.



Login

[SSO-Login](#) Can't log in?

English

- ← Main menu
 - Studies offered**
 - Search for courses**
 - Search for special events
 - Show current courses
 - Show university course catalog
 - Module descriptions
 - Show course of studies schedule
 - Solve date conflicts for choosen courses or examinations
- Close [ESC]

ees Scientia Guest Students Continuing education students

Search for courses

Show module descriptions

Help & contact

If you need help using campo, please see [Help for online applications](#) .
The staff of the [Student Advice Center \(ZSB\)](#) can answer any questions you may have about your application and studies.
Answers to common questions regarding applications can be found in the [FAQs](#) .
If you have any technical questions, please e-mail campo@fau.de .

Information about the event and exam administration as well as the support hotline can be found on our [intranet page](#) .


Guide on how to look up courses and how to check
in which language these are taught.

Go to <https://www.campo.fau.de/> and choose English as language

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Login

 English[SSO-Login](#) Can't log in?

Home

Admission

Studies offered

Organisation

Service

[Main menu](#)**Studies offered**[Search for courses](#)[Search for special events](#)[Show current courses](#)[Show university course catalog](#)[Module descriptions](#)[Show course of studies schedule](#)[Solve date conflicts for choosen courses or examinations](#)

Close [ESC]

ees

Scientia Guest Students

Continuing education students

Search for courses

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Show university course catalog

Choose semester

Semester Winter semester 2025/26

Choose your semester

Note: The courses for your semester at FAU might not yet be visible in campos. In that case you can look up information about the courses in the corresponding semester (winter or summer) a year before your stay.

Course catalog for Winter semester 2025/26

Course catalogue

FAU course catalogue

Welcome to the course catalog for the winter semester 2025/26!

Lecture period: October 13 to February 6, 2026. October 3, November 1 and presumably December 19 to January 6, 2026, are lecture-free days. The course catalog for the following semester will be published in the week following the end of lectures.

Special tips and information from the Student Advisory Service for first-semester students can be found at the following [link](#)

Structure of the course catalog

- The courses on offer are structured by faculty and degree program, and you can use the [search for individual courses](#).
- All module elements are displayed in the course catalog, regardless of whether a released, semester-dependent course or examination exists in the module in this semester. Under [Show module descriptions](#) you will find all **released** modules including links to the detailed module descriptions.
- Detailed course overview**
You can find the dates and times, and the teaching staff on the first tab *Events*. Clicking on the *room* here brings up a detailed view with a floor plan. Clicking on the *lecturer* brings up their contact data.
- The content description of the event can be found on the next tab *Contents*.
- In the *Course catalog* tab, you will find all assignments of the course to modules, modules to degree programs and to headings in the course catalog.

For students

Course plan

To make scheduling easier, the courses of your degree programs are displayed in a *timetable view* in the degree program plan. They are displayed according to semester, provided that corresponding recommendations have been entered. Otherwise, you can also switch to all courses.

Study planner

In the study planner, you will find the courses and examinations for the degree programs in which you are enrolled in the structure of your examination regulations.

We wish you a good start to the winter semester 2025/26!

If you have questions or comments, please do not hesitate to contact us at support-exa@fau.de

Electives, soft skills and language courses

Faculty of Humanities, Social Sciences and Theology

Faculty of Business, Economics and Law

Faculty of Sciences

Faculty of Medicine

Faculty of Engineering

FAU Scientia guest student program

Courses for gifted high school students

Library courses (Link)























































International offers by [EELISA](#) (European University Alliance)

































This first section of the course catalog shows important dates and deadlines, such as the lecture period and lecture-free days

Faculty of Engineering	
Advanced Materials and Processes	
Advanced Optical Technologies	
Advanced Signal Processing & Communications Engineering	
Artificial Intelligence	
Autonomy Technologies	
Berufspädagogik Technik	
Biotechnologie	
Chemical Engineering - Nachhaltige Chemische Technologien	
Chemie- und Bioingenieurwesen	
Clean Energy Processes	
Communications and Multimedia Engineering	
Computational Engineering	
Computational Engineering (Elite)	
Elektromobilität-ACES	
Elektrotechnik - Elektronik und Informationstechnik	
Energietechnik	
Informatik	
Informatik/IT-Sicherheit	
Information and Communication Technology	
Informations- und Kommunikationstechnik	
International Production Engineering and Management	

Look for courses at these 3 places:
AI, CE or INF (more info on the next slides)

DO NOT CHOOSE COURSES HERE:
Computer Science/IT Security (BSc) is a special program is for working students who study in their spare time and is **not available for regular students or visiting students.**

▶  Energietechnik	 
▼  Informatik	 
▶  Lehramt Gymnasium Informatik Hauptfach PO-Version 2007	 
▶  Lehramt Gymnasium Informatik Hauptfach PO-Version 20222	 
▶  Lehramt Gymnasium Informatik Hauptfach PO-Version 20242	 
▶  Lehramt Mittelschule Informatik Didaktikfach PO-Version 20242	 
▶  Lehramt Mittelschule Informatik Hauptfach PO-Version 20162	 
▶  Lehramt Mittelschule Informatik Hauptfach PO-Version 20222	 
▶  Lehramt Mittelschule Informatik Hauptfach PO-Version 20242	 
▶  Lehramt Realschule Informatik Hauptfach PO-Version 2007	 
▶  Lehramt Realschule Informatik Hauptfach PO-Version 20222	 
▶  Lehramt Realschule Informatik Hauptfach PO-Version 20242	 
▶  Bachelor of Arts (2 Fächer) Informatik 1. Fach PO-Version 2013	 
▶  Bachelor of Science Informatik Hauptfach PO-Version 20092	 
▶  Bachelor of Science Informatik Hauptfach PO-Version 20222 Bachelor courses	 
▶  Master of Science Informatik Hauptfach PO-Version 2010 Master courses – Selection similar to Bachelor courses	 
▶  Informatik/IT-Sicherheit	 
▶  Information and Communication Technology	 

	 Lehramt Realschule Informatik Hauptfach PO-Version 20222		
	 Lehramt Realschule Informatik Hauptfach PO-Version 20242		
	 Bachelor of Arts (2 Fächer) Informatik 1. Fach PO-Version 2013		
	 Bachelor of Science Informatik Hauptfach PO-Version 20092		
	 Bachelor of Science Informatik Hauptfach PO-Version 20222		
	 10000 Bachelor's examination		
	 Master of Science Informatik Hauptfach PO-Version 2010		
	 Informatik/IT-Sicherheit		

		Lehramt Realschule Informatik Hauptfach PO-Version 20222		
		Lehramt Realschule Informatik Hauptfach PO-Version 20242		
		Bachelor of Arts (2 Fächer) Informatik 1. Fach PO-Version 2013		
		Bachelor of Science Informatik Hauptfach PO-Version 20092		
		Bachelor of Science Informatik Hauptfach PO-Version 20222		
		10000 Bachelor's examination		
		2000 Total		
		Master of Science Informatik Hauptfach PO-Version 2010		
		Informatik/IT-Sicherheit		
		Information and Communication Technology		
		Informations- und Kommunikationstechnik		
		International Production Engineering and Management		

▶	📄 Bachelor of Science Informatik Hauptfach PO-Version 20092	🔗	☰
▼	📄 Bachelor of Science Informatik Hauptfach PO-Version 20222	🔗	⬆️☰
▼	🔒 10000 Bachelor's examination	🔗	⬆️☰
▼	🔒 2000 Total	🔗	⬆️☰
▶	🔒 1800 Minor subject	🔗	☰
▶	🔒 1700 Compulsory elective Subject (Compulsory elective Modules from at least 2 specializations)	🔗	☰
▶	🔒 1750 Electives from Informatics in automotive engineering (elective modules in at least 2 specializations)	🔗	☰
●	🧩 1999 Bachelor's thesis	🔗	
▶	🧩 93097 Introduction to software engineering	🔗	☰
▶	🧩 67630 Mathematics for INF 1	🔗	☰
●	🧩 67640 Mathematics for INF 2	🔗	
▶	🧩 67650 Mathematics for INF 3	🔗	☰

	10000 Bachelor's examination		
	2000 Total		
	1800 Minor subject		
	1700 Compulsory elective Subject (Compulsory elective Modules from at least 2 specializations)		
	93701 Focus module: Database systems		
	93702 Focus module: Discrete simulation		
	93703 Focus module: Electronics and information technology		
	93705 Focus module: Hardware/software co-design		
	93706 Focus module: Communication systems		
	93707 Focus module: Artificial intelligence		
	93709 Focus module: Pattern recognition		
	93710 Focus module: Programming systems		
	93711 Focus module: Computer architecture		
	93712 Focus module: Software engineering		
	93713 Focus module: Systems simulation		
	93714 Focus module: Theoretical computer science		
	93715 Focus module: Distributed systems and operating systems		
	93716 Focus module: IT security		

Select what you're focusing on.
For example, this one

▶ 93707 Focus module: Artificial intelligence	
▼ 93709 Focus module: Pattern recognition	
● 23070 Biomedical signal analysis	
▼ 44130 Pattern recognition	
▶ PR E - Pattern Recognition Exercises - Tutorial/exercise	
▶ PR - Pattern Recognition - Lecture	
● 44445 Cognitive neuroscience for AI developers	
▶ 44455 Speech and Language Processing	
● 65718 Introduction to machine learning	
▶ 93182 Mainframe programming II	
● 93183 Mainframe@Home	

Select the module for a description of the course
 → [Slide 18](#)

Or select the lecture for timing information
 → [Slide 21](#)

Here, a permalink can be generated to share the course or module. If you have questions about it, please use this link in your email.



Click here to find out how many ECTS the module is worth (next slide)

Semester planning

Module details

Lectures and examinations

Information about activity and allocation, assignment specific

Course catalog

Courses of study

Basic data

Title	Pattern recognition	Mandatory participation	Core elective
Short text	Pattern Recognition	Recommended term	5
Long text	Pattern Recognition	Organisational unit	Lehrstuhl für Informatik 5 (Mustererkennung) TechFak Informatik Bachelor of Science
Number	44130	Responsible	Prof. Dr.-Ing. Andreas Maier (Responsibility: Verantwortliche/-r)
Teaching and examination language	german or english english		

Some modules are offered in German AND English, or in German OR English, which in practice often means that the module is held in German but might have English slides.

Module details

Prerequisites

- Well grounded in probability calculus, linear algebra/matrix calculus
- The attendance of our bachelor course 'Introduction to Pattern Recognition' is not required but certainly helpful.
- Gute Kenntnisse in Wahrscheinlichkeitsrechnung und Linearer Algebra/Matrizenrechnung
- Der Besuch der Bachelor-Vorlesung 'Introduction to Pattern Recognition' ist zwar keine Voraussetzung, aber sicherlich von Vorteil.

Here you can see in which language the chosen course is taught

Learning objectives and skills

Die Studierenden

- verstehen die Struktur von Systemen zur maschinellen Klassifikation einfacher Muster
- erläutern die mathematischen Grundlagen ausgewählter maschineller Klassifikatoren
- wenden Klassifikatoren zur Lösung konkreter Klassifikationsprobleme an
- beurteilen unterschiedliche Klassifikatoren in Bezug auf ihre Eignung
- verstehen in der Programmiersprache Python geschriebene Lösungen von Klassifikationsproblemen und Implementierungen von Klassifikatoren

Students

- understand the structure of machine learning systems for simple patterns
- explain the mathematical foundations of selected machine learning techniques
- apply classification techniques in order to solve given classification tasks
- evaluate various classifiers with respect to their suitability to solve the given problem
- understand solutions of classification problems and implementations of classifiers written in the programming language Python

Some courses have prerequisites. This might mean that they require you to take another course prior to this one, or simply that you should already have some knowledge or skills.

Contents

Mathematical foundations of machine learning based on the following classification methods:

You are here: [Home](#) > [Studies offered](#) > [Show university course catalog](#)

Detail view

If you would like to share the link to this event/exam or this module, please use the perma-link. You can find this via the share button to the right of the "Back" button.

Pattern recognition | 44130 | Module



Semester planning

- Module details
- Lectures and examinations
- Information about activity and allocation, assignment specific**
- Course catalog
- Courses of study

Information about activity and allocation, assignment specific

[Edit table](#)

Konto	ECTS credits	Malus	Booking points	Grading type	Compulsory attribute	Recommended study semester	Maximum of attempts	Start of freetrial	Latest term of firsttrial	Courses of study
Focus module: Pattern recognition	5.0				Core elective	5.0	1		0	<ul style="list-style-type: none"> • B.Sc. Informatik (PO 20092 Duales Studium Zweitstudium) • B.Sc. Informatik (PO 20222 Duales Studium) • B.Sc. Informatik (PO 20092) • B.Sc. Informatik (PO 20222) • B.Sc. Informatik (PO 20092 Zweitstudium) • B.Sc. Informatik (PO 20222 Teilzeit Zweitstudium) • B.Sc. Informatik (PO 20092 Duales Studium) • B.Sc. Informatik (PO 20222 Duales Studium Zweitstudium) • B.Sc. Informatik (PO 20222 Zweitstudium) • B.Sc. Informatik (PO 20222 Teilzeit)

This module is worth 5 ECTS

▶	🔗 93707 Focus module: Artificial intelligence	🔗	⌵
▼	🔗 93709 Focus module: Pattern recognition	🔗	⬆️
●	🧩 23070 Biomedical signal analysis	🔗	
▼	🧩 44130 Pattern recognition	🔗	⬆️
▶	📖 PR E - Pattern Recognition Exercises - Tutorial/exercise	🔗	⌵
▶	📖 PR - Pattern Recognition - Lecture	🔗	⌵
●	🧩 44445 Cognitive neuroscience for AI developers	🔗	
▶	🧩 44455 Speech and Language Processing	🔗	⌵
●	🧩 65718 Introduction to machine learning	🔗	
▶	🧩 93182 Mainframe programming II	🔗	⌵
●	🧩 93183 Mainframe@Home	🔗	

Select the module for a description of the course
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Detail view

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Pattern Recognition | Course



Choose semester

Semester Winter semester 2025/26

Semester planning

- Events
- Contents
- Course catalog
- Modules and degree programs
- Documents

Basic data

Title	Pattern Recognition	Course type	Lecture
Short text	PR	Module frequency	Only in winter semester
Organizational unit	<ul style="list-style-type: none">PhilFak Digital Humanities Master of Arts (Verantwortlicher)ReWiFak Finance - Auditing - Controlling - Taxation Master of Science (Verantwortlicher)ReWiFak International Information Systems Master of Science (Verantwortlicher)ReWiFak Marketing Master of Science (Verantwortlicher)ReWiFak Wirtschaftsinformatik Bachelor of Science (Verantwortlicher)More...	ECTS credits	3.75
		Semester hours per week	3.0
		Link to StudOn course (login)	Parallelgruppe 1: Pattern Recognition

Here you can see how many ECTS the lecture alone is worth

Pattern Recognition

Basic data

Semester hours per week	3.0
Teaching Language	english
Responsible	Prof. Dr.-Ing. Andreas Maier

Here you can check the teaching language

Events

Export data as iCalendar (ics) Individual dates Open details

Changes	Frequency	Weekday	From - To	Cancellation date	Start date - End date	Exp. Att.	Comment	Lecturer(s)	Room
	Weekly	Thu	2:15 PM - 3:45 PM	<ul style="list-style-type: none">12/25/202501/01/2026	Oct 16, 2025 - Feb 5, 2026	150		Prof. Dr.-Ing. Andreas Maier	11901.00.222 (H7 Hörsaal 7)

Here you can see when and where the lecture takes place

Guide on how to filter for courses taught in English
at the department of computer science.

Go to <https://www.campo.fau.de/> and choose English as language

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◀ Main menu

Studies offered

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Search for special events

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Show university course catalog

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Show course of studies schedule

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[ees](#) [Scientia Guest Students](#) [Continuing education students](#)

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You are here: [Home](#) > [Studies offered](#) > [Search for courses](#)

Search for courses

[Help for search](#)

Basic data

Search terms [?](#)

Semester-independent title

Short text

Semester-dependent title

Semester [?](#) **Select your desired semester**

Course type = [?](#)

Teaching language = [?](#)

Choose English as teaching language

Structure

Organizational unit =

[Select](#)

Degree program =

[Select](#)

Click to select your degree programm (see next slide)

Lecturers, locations and dates

Lecturer(s)

[Select](#)

Note: The courses for your semester at FAU might not yet be visible in campos. In that case you can look up information about the courses in the corresponding semester (winter or sommer) a year before your stay.

Endtime

[Help for search](#)

Unique name	<input type="text"/>
Name	<input type="text" value="informatik"/>
Regular number of semesters	<input type="text"/>
Part of studies weighted in ECTS points	<input type="text"/>
Course of study type	= <input type="text" value=""/> +
Degree	= <input type="text" value=""/> +
Subject	= <input type="text" value=""/> +
Course specialization	= <input type="text" value=""/> +
Major field of study	= <input type="text" value=""/> +
Subject indicator	= <input type="text" value=""/> +
Version of examination regulation	= <input type="text" value=""/> +
Type of studies	= <input type="text" value=""/> +
Place of studies	= <input type="text" value=""/> +
Form of studies	= <input type="text" value=""/> +
Kind of studies	= <input type="text" value=""/> +
Admissible	<input type="text"/>
Ability to study	<input type="text"/>
Organizational unit	= <input type="text"/>

Type in „Informatik“



Select your degree: Bachelor of Science or Master of Science

→ Select

Search

Reset

Help for search

Confirm selection Return without change of selection

Already selected (2) Select all Delete selected items

Search terms: Name: informatik ; Degree: Bachelor of Science

For Bachelor: do not select the first option because it is outdated
For Master: the first option is the only one necessary

Course of study found (40 items)

[Show filter](#) [Edit table](#)

<input type="checkbox"/>	Unique name	Course of study type	Name	Degree	Subject	Organizational unit	Major field of study	Course specialization	Subject indicator	Version of examination regulation	Place of studies	Valid from	Valid to	Admissible	Ability to study	Short text
<input type="checkbox"/>	55 079 - - H 2007 E P V 1	Vollstudiengang	B.Sc. Informatik (PO 2007)	Bachelor of Science	Computer Science	TechFak Informatik Bachelor of Science	No specialization	kein Schwerpunkt	Main subject	Version 2007	Erlangen	01/01/2007	12/31/2009	Yes	Yes	Informatik
<input checked="" type="checkbox"/>	55 079 - - H 20091 E P V 1	Vollstudiengang	B.Sc. Informatik (PO 20091)	Bachelor of Science	Computer Science	TechFak Informatik Bachelor of Science	No specialization	kein Schwerpunkt	Main subject	Version 20091	Erlangen	04/01/2009	12/31/2009	Yes	Yes	Informatik
<input checked="" type="checkbox"/>	55 079 - - H 20092 E P V 1	Vollstudiengang	B.Sc. Informatik (PO 20092)	Bachelor of Science	Computer Science	TechFak Informatik Bachelor of Science	No specialization	kein Schwerpunkt	Main subject	Version 20092	Erlangen	01/01/2009	12/31/2100	Yes	Yes	Informatik
<input type="checkbox"/>	55 079 - - H 2007 E P V 2	Vollstudiengang	B.Sc. Informatik (PO 2007 Zweitstudium)	Bachelor of Science	Computer Science	TechFak Informatik Bachelor of Science	No specialization	kein Schwerpunkt	Main subject	Version 2007	Erlangen	01/01/2007	12/31/2009	Yes	Yes	Informatik
<input type="checkbox"/>	55 079 - - H 20092 E P V 2	Vollstudiengang	B.Sc. Informatik (PO 20092 Zweitstudium)	Bachelor of Science	Computer Science	TechFak Informatik Bachelor of Science	No specialization	kein Schwerpunkt	Main subject	Version 20092	Erlangen	01/01/2009	12/31/2100	Yes	Yes	Informatik

Select your degree program

You are here: [Home](#) > [Studies offered](#) > [Search for courses](#)

Search for courses

[Help for search](#)

Basic data ▾

Search terms ⓘ

Semester-independent title

Short text

Semester-dependent title

Semester ▾

Course type = ▾ ▾ +

Teaching language = ▾ english ▾ +

Structure ▾

Organizational unit = ▾
→ [Select](#)

Degree program = ▾
B.Sc. Informatik (PO 20091)
B.Sc. Informatik (PO 20092)
→ [Change the selection.](#)
X [Delete selected items](#)

Lecturers, locations and dates ▾

Lecturer(s)
→ [Select](#)

Room = ▾
→ [Select](#)

Date of course ⓘ

Weekday = ▾ ▾ +

Start time

Endtime

[Help for search](#)