

How to choose Computer Science courses at FAU

Version: December 09, 2022

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Friedrich-Alexander University of Erlangen-Nuremberg (FAU)

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

- **Bachelor courses**

- FAU does not have an official computer science Bachelor program taught in English.
- 1st and 2nd year Bachelor Erasmus students can only study at FAU if their German is at least B2 (C1 is better)
- 3rd year Bachelor students can take many Master courses

- **Master courses**



- FAU has two computer science Master programs taught in English so far:
 - Artificial Intelligence
 - <https://www.ai.study.fau.eu>
 - Module catalogue: <https://www.ai.study.fau.eu/students/module-catalogue>
 - Computational Engineering
 - <https://www.ce.studium.fau.eu/>
 - Module catalogue:
<https://www.ce.studium.fau.eu/students/module-catalog-master>

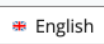
On pages 4-6 you can find a guide how to search for a specific course.
For example, if you already found your desired courses in this list:

[English Courses for Computer Science at FAU](#)

→ Starting from page 7, you can find a guide how to look up other courses and how to check in which language these are taught.

Go to <https://www.campo.fau.de/>

1.   **campo**

User name Password Login 

SSO-Login Can't log in?

Home

Admission > J Students Employees Scientia Guest Students

2. **Studies offered** >

Organisation >

Help & contact

If you need help using campo, please see [Help for online applications](#).

The staff at the [Student Advice and Career Service \(IBZ\)](#) can answer any subject-related questions you may have about applications and studying.

Answers to common questions regarding applications can be found in the [FAQs](#).

If you have any technical questions, please e-mail campo@fau.de.

If you have any questions regarding **event and exam administration**, please contact our support hotline at +49 (0) 9131 85 20306 during the following hours:

- Monday, Tuesday and Thursday from 9.00 to 12.00
- Wednesday from 13.00 to 16.00

Alternatively, please e-mail support-exa@fau.de.

<https://www.campo.fau.de/qisserver/pages/cs/sys/portal/subMenu.faces?navigationPosition=studiesOffered> T OF HIS EG

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◀ Main menu

Studies offered

3. Search for courses

Search special events

Show current courses

Show university course catalog

Module descriptions

Show course of studies schedule

Show lecturers timetable

Search for courses by search term or by extended search criteria.

[Additional applicants](#) ·

admission restrictions for summer semester 2023: **8th December**

programmes without admission restrictions for summer semester

with their user ID and password in the upper right hand corner of

login via the corresponding link in the upper right hand corner of the

Help & contact

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5. Type in your desired course

Search words

Semester

e.g. number, title, lecturers

Winter semester 2022

Winter semester 2024

Summer semester 2024

Winter semester 2023

Summer semester 2023

Winter semester 2022

Summer semester 2022

Search

Show all possible search results

4. Choose your desired semester

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

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

Home

Admission

Studies offered

Organisation

Students

Employees

Scientia Guest Students

Help & contact

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◀ Main menu

Studies offered

Search for courses

Show current courses

Show university course catalog **3.**

Module descriptions

Show course of studies schedule

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Show all courses in a hierarchic structure.

admission restrictions for winter semester

programmes without admission restrictions for

with their user ID and password in the upper

login via the corresponding link in the upper right

Help & contact

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Show university course catalog

Course catalog for Summer semester 2022

Semester Summer semester 2022

Choose your semester

Course catalogue

- FAU course catalogue
- + Faculty of Humanities, Social Sciences and Theology
- + Faculty of Business, Economics and Law
- + Faculty of Medicine
- + Faculty of Sciences
- + Faculty of Engineering 4.
- + expand node Faculty of Engineering
Allgemeiner Studienbereich inklusive Schlüsselqualifikationen und Sprachkurse
- FAU Scientia Gaststudium
- + Frühstudium

Some information about offered courses, such as where to register for the course, may appear only 2-3 weeks before the lectures start!

























































Before this time, most information about the courses is preliminary, but it can be used for orientation

[Legend](#)

+ Advanced Materials and Processes		
+ Advanced Optical Technologies		
+ Advanced Signal Processing & Communications Engineering		
+ Artificial Intelligence		
+ Berufspädagogik Technik		
+ 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 5.		
+ Informatik/IT-Sicherheit		
+ Information and Communication Technology		
+ Informations- und Kommunikationstechnik		
+ Internationales Projektmanagement Großanlagenbau		
+ International Production Engineering and Management		

5) Look for courses at these 3 places:
AI (more info on slide 2)
CE (more info on slide 2)
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.

+ 	Computational Engineering (Elite)		
+ 	Elektromobilität-ACES		
+ 	Elektrotechnik - Elektronik und Informationstechnik		
+ 	Energietechnik		
- 	Informatik		
+ 	1. Staatsprüfung für das Lehramt an Gymnasien Informatik Hauptfach PO-Version 2007		
+ 	1. Staatsprüfung für das Lehramt an Gymnasien Informatik Hauptfach PO-Version 20222		
+ 	1. Staatsprüfung für das Lehramt an Mittelschulen Informatik Hauptfach PO-Version 20162		
+ 	1. Staatsprüfung für das Lehramt an Mittelschulen Informatik Hauptfach PO-Version 20222		
+ 	1. Staatsprüfung für das Lehramt an Realschulen Informatik Hauptfach PO-Version 2007		
+ 	1. Staatsprüfung für das Lehramt an Realschulen Informatik Hauptfach PO-Version 20222		
+ 	Bachelor of Arts (2 Fächer) Informatik 1. Fach PO-Version 2010		
+ 	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		
+ 	Master of Science Informatik Hauptfach PO-Version 2010		
+ 	Informatik/IT-Sicherheit		
+ 	Information and Communication Technology		
+ 	Informations- und Kommunikationstechnik		
+	Internationales Projektmanagement Großanlagenbau		
+	International Production Engineering and Management		

6.1 Bachelor

6.2 Master works similarly to Bachelor, see next slides

	 Elektromobilität-ACES		
	 Elektrotechnik - Elektronik und Informationstechnik		
	 Energietechnik		
	 Informatik		
	 1. Staatsprüfung für das Lehramt an Gymnasien Informatik Hauptfach PO-Version 2007		
	 1. Staatsprüfung für das Lehramt an Gymnasien Informatik Hauptfach PO-Version 20222		
	 1. Staatsprüfung für das Lehramt an Mittelschulen Informatik Hauptfach PO-Version 20162		
	 1. Staatsprüfung für das Lehramt an Mittelschulen Informatik Hauptfach PO-Version 20222		
	 1. Staatsprüfung für das Lehramt an Realschulen Informatik Hauptfach PO-Version 2007		
	 1. Staatsprüfung für das Lehramt an Realschulen Informatik Hauptfach PO-Version 20222		
	 Bachelor of Arts (2 Fächer) Informatik 1. Fach PO-Version 2010		
	 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		
	 Grundlagen- und Orientierungsprüfung (GOP)		
	 Bachelor's examination		
	 Master of Science Informatik Hauptfach PO-Version 2010		
	 Informatik/IT-Sicherheit		
	 Information and Communication Technology		
	 Informations- und Kommunikationstechnik		
	 Internationales Projektmanagement Großanlagenbau		
	 International Production Engineering and Management		

Most of these courses are taught in German

Courses here can be in English and are often offered in master programs as well

▶ 1. Staatsprüfung für das Lehramt an Gymnasien Informatik Hauptfach PO-Version 2007	🔗 ⌵
▶ 1. Staatsprüfung für das Lehramt an Gymnasien Informatik Hauptfach PO-Version 20222	🔗 ⌵
▶ 1. Staatsprüfung für das Lehramt an Mittelschulen Informatik Hauptfach PO-Version 20162	🔗 ⌵
▶ 1. Staatsprüfung für das Lehramt an Mittelschulen Informatik Hauptfach PO-Version 20222	🔗 ⌵
▶ 1. Staatsprüfung für das Lehramt an Realschulen Informatik Hauptfach PO-Version 2007	🔗 ⌵
▶ 1. Staatsprüfung für das Lehramt an Realschulen Informatik Hauptfach PO-Version 20222	🔗 ⌵
▶ Bachelor of Arts (2 Fächer) Informatik 1. Fach PO-Version 2010	🔗 ⌵
▶ 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	🔗 ⌴
▶ 1000 - Grundlagen- und Orientierungsprüfung (GOP)	🔗 ⌵
▼ 10000 - Bachelor's examination	🔗 ⌴
▶ 2000 - Total	🔗 ⌵
<div>expand node 2000 - Total</div> <ul style="list-style-type: none"> 9990 - Graduation ceremony - Teilleistung 12301 - Fristverlängerung GOP - Teilleistung 	
▶ 77777 - Additional achievements	🔗 ⌵
▶ 99999 - Discontinued examinations	🔗 ⌵
▶ Master of Science Informatik Hauptfach PO-Version 2010	🔗 ⌵
▶ Informatik/IT-Sicherheit	🔗 ⌵
▶ Information and Communication Technology	🔗 ⌵
▶ Informations- und Kommunikationstechnik	🔗 ⌵
▶ Internationales Projektmanagement Großanlagenbau	🔗 ⌵

▶	📄 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	🔗 ⌆
▶	🔗 1000 - Grundlagen- und Orientierungsprüfung (GOP)	🔗 ⌵
▼	🔗 10000 - Bachelor's examination	🔗 ⌆
▼	🔗 2000 - Total	🔗 ⌆
▶	▶ 🔗 1700 - Wahlpflichtbereich (Wahlpflichtmodule aus mind. 2 Vertiefungsrichtungen)	🔗 ⌵
	▶ expand node 1700 - Wahlpflichtbereich (Wahlpflichtmodule aus mind. 2 Vertiefungsrichtungen)	
	▶ 📄 Informatikschwerpunkt Informatik in der Fahrzeugtechnik (Wahlpflichtmodule aus mind. 2 Vertiefungsrichtungen)	🔗 ⌵
▶	🔗 1800 - Minor subject	🔗 ⌵
●	🏆 1990 - Major Field of Study in Computer Science in Automotive Engineering - Teilleistung	
▶	🌱 1999 - Bachelor's thesis	
▶	🌱 67630 - Mathematics for INF 1	
▶	🌱 67640 - Mathematics for INF 2	
▶	🌱 67650 - Mathematics for INF 3	
▶	🌱 67660 - Mathematics for INF 4	
▶	🌱 93000 - Algorithms for continuous systems	
▶	🌱 93010 - Theory of computation and formal languages	
▶	🌱 93040 - Parallel and functional programming	
▶	🌱 93072 - Foundations of logic in informatics	
▶	🌱 93080 - Foundations of computer architecture and computer organisation	
▶	🌱 93104 - Grundlagen der Programmierung	
▶	🌱 93105 - Sichere Systeme	
▶	🌱 93106 - Einführung in die Algorithmik	
▶	🌱 93108 - Konzeptionelle Modellierung und Grundlagen von Datenbanken	
▶	🌱 93110 - Foundations of computer engineering	
▶	🌱 93121 - Theory of programming	

To find out in which language the course is taught, just follow these steps:

Most Bachelor courses for first 4 semesters in Computer Science are in German (Deutsch)

Courses in 5. and 6. semester can be in English and are often offered in master programs as well

The screenshot shows the CAMPO portal interface. At the top, there is a navigation bar with the CAMPO logo, a home icon, and a search bar. To the right of the search bar are fields for 'User name' and 'Password', a 'Login' button, and a language selector set to 'English'. Below the navigation bar, there is a list of focus modules under the heading '1700 - Wahlpflichtbereich (Wahlpflichtmodule aus mind. 2 Vertiefungsrichtungen)'. The modules are listed with their IDs and titles. The module '93712 - Focus module: Software engineering' is highlighted in yellow and circled in red. A red text overlay says 'Select what interests you. For example this one'.

Module ID	Module Title
1700	Wahlpflichtbereich (Wahlpflichtmodule aus mind. 2 Vertiefungsrichtungen)
93701	Focus module: Database systems
93702	Focus module: Discrete simulation
93703	Focus module: Electronics and information technology
93704	Focus module: Computer graphics
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
93717	Specialisation: Computer science in education
93719	Specialisation: Medical informatics
93720	Specialisation: Cryptography
1750	Wahlpflichtbereich Studienschwerpunkt Informatik in der Fahrzeugtechnik (Wahlpflichtmodule aus mind. 2 Vertiefungsrichtungen)

▶ 🔒	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	🔗 ⌴
● ⭐	37121 - Graded credit: Software engineering (5 ECTS) - Platzhalterprüfung	
● ⭐	37122 - Graded credit: Software engineering (7.5 ECTS) - Platzhalterprüfung	
● ⭐	37123 - Graded credit: Software engineering (10 ECTS) - Platzhalterprüfung	
● ⭐	37124 - Graded credit: Software engineering (2,5 ECTS) - Platzhalterprüfung	
▶ 🧩	43200 - Test- und Analyseverfahren zur Software-Verifikation und Validierung	
▶ 🧩	57025 - Applied software engineering	
▶ 🧩	93002 - Database concepts in practice	
▶ 🧩	93135 - Programming with software design patterns	
▶ 🧩	93143 - The AMOS project (SD role)	
▶ 🧩	93145 - The AMOS project (PO role)	
▶ 🧩	93146 - AI software applications (VUE 5 ECTS)	
▶ 🧩	93183 - Mainframe@Home	
▶ 🧩	93184 - Commercial open source startups (OSS-COSS)	
▶ 🧩	93198 - Product management	
▶ 🧩	93550 - Foundations of software engineering	
▶ 🧩	97006 - Product management (PROJ 5-ECTS)	
▶ 🧩	97008 - Advanced design and programming (5-ECTS)	
▶ 🧩	113545 - Grundlagen des Software Engineering mit Seminar Design Patterns und Anti-Patterns	
▶ 🧩	140760 - Grundlagen des Software Engineering mit Seminar Einführung in die Kryptografie	
▶ 🧩	152768 - Organisation und Qualitätskontrolle im modernen Software Engineering (mit Seminar Design Patterns und Anti-Patterns)	

Select your preferred course

- ▶ 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
 - ★ 37121 - Graded credit: Software engineering (5 ECTS) - Platzhalterprüfung
 - ★ 37122 - Graded credit: Software engineering (7.5 ECTS) - Platzhalterprüfung
 - ★ 37123 - Graded credit: Software engineering (10 ECTS) - Platzhalterprüfung
 - ★ 37124 - Graded credit: Software engineering (2,5 ECTS) - Platzhalterprüfung
 - ▶ 43200 - Test- und Analyseverfahren zur Software-Verifikation und Validierung
 - ▶ 57025 - Applied software engineering
 - ▶ 93002 - Database concepts in practice
 - ▶ 93135 - Programming with software design patterns
 - ▼ 93143 - The AMOS project (SD role)
 - ▶ **The AMOS Project (VL) - Lecture**
 - ★ 31 Show details of Course 'The AMOS Project (VL)'
 - ▶ 93145 - The AMOS project (PO role)
 - ▶ 93146 - AI software applications (VUE 5 ECTS)
 - ▶ 93183 - Mainframe@Home
 - ▶ 93184 - Commercial open source startups (OSS-COSS)
 - ▶ 93198 - Product management
 - ▶ 93550 - Foundations of software engineering
 - ▶ 97006 - Product management (PROJ 5-ECTS)
 - ▶ 97008 - Advanced design and programming (5-ECTS)
 - ▶ 113545 - Grundlagen des Software Engineering mit Seminar Design Patterns und Anti-Patterns

Select the lecture/Vorlesung

Detail view

The AMOS Project (VL) | Course

[Back](#)



Semester Sommersemester 2022

Basic data

Parallel groups / dates

Course catalog

Modules and degree programmes

Documents

Title	The AMOS Project (VL)	Course type	Lecture
Short text	OSS-AMOS-VL	Module frequency	Every semester
Organizational unit	<ul style="list-style-type: none">■ Professur für Open Source Software (Verantwortlicher)■ ReWiFak International Information Systems Master of Science (Verantwortlicher)■ ReWiFak Wirtschaftsinformatik Bachelor of Science (Verantwortlicher)■ NatFak Mathematik Bachelor of Science (Verantwortlicher)■ TechFak Artificial Intelligence Master of Science (Verantwortlicher)■ More...	ECTS credits	5.0
		Semester hours per week	2.0

Detail view

The AMOS Project (VL) | Course

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Semester Sommersemester 2022

[Basic data](#)
[Parallel groups / dates](#)
[Course catalog](#)
[Modules and degree programmes](#)
[Documents](#)

The AMOS Project (VL) ▾

[Export data as iCalendar \(ics\)](#)
[Individual dates](#)
[Open details](#)

Semester hours per week 2.0
 Teaching Language english
 Responsible Prof. Dr. D.

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

Some modules are offered in German AND English, or in German OR English, which in practice often means that the module is in German. If in doubt, ask your Erasmus coordinator

Frequency	Weekday	From - To	Cancellation date	Start date - End date	Exp. Att.	Comment	Lecturer(s)	Room
Weekly	Wed	10:15 AM - 11:45 AM		Apr 27, 2022 - Jul 27, 2022				

Modules are very likely offered in English if English is the only language in this short description