

**CURRICULUM B.Sc. COMPUTER SCIENCE****Campus Studies, 180 ECTS Credits**

	Model 1: Programme Start October				Model 2: Programme Start April					
Month	Courses			Courses						
Oct	Introduction to Computer Science	Object-oriented Programming with Java	Intercultural and Ethical Decision Making							
Nov										
Dec										
Jan	Mathematics I	Statistics: Probability and Descriptive Statistics	Collaborative Work							
Feb										
Mar										
Apr	Data Structures and Java Class Library	Mathematics II	Web Application Development	Introduction to Computer Science	Object-oriented Programming with Java	Intercultural and Ethical Decision Making				
May										
Jun	Lecture-Free Period									
Jul	Project: Java and Web Development*	Computer Architecture and Operating Systems*	Introduction to Academic Work	Mathematics I	Statistics: Probability and Descriptive Statistics	Collaborative Work				
Aug										
Sep	Lecture-Free Period									
Oct	Database Modeling and Database Systems	Project: Build a Data Mart in SQL	Requirements Engineering	Data Structures and Java Class Library	Mathematics II	Web Application Development				
Nov										
Dec										
Jan	Algorithms, Data Structures and Programming Languages	Operating Systems, Computer Networks, and Distributed Systems	Introduction to Programming with Python	Project: Java and Web Development*	Computer Architecture and Operating Systems*	Introduction to Academic Work				
Feb										
Mar										
Apr	IT Service Management	Project: IT Service Management	Theoretical Computer Science and Mathematical Logic	IT Service Management	Project: IT Service Management	Theoretical Computer Science and Mathematical Logic				
May										
Jun	Lecture-Free Period									
Jul	Software Quality Assurance	Introduction to Data Protection and Cyber Security	Cryptography	Software Quality Assurance	Introduction to Data Protection and Cyber Security	Cryptography				
Aug										
Sep	Lecture-Free Period									
Oct	Specification	Project: Agile Project Management	Elective A Course a	Elective A Course b	Database Modeling and Database Systems	Project: Build a Data Mart in SQL	Requirements Engineering			
Nov										
Dec										
Jan	IT Law	Project Software Engineering	Elective B Course c	Elective B Course d	Algorithms, Data Structures and Programming Languages	Operating Systems, Computer Networks, and Distributed Systems				
Feb										
Mar										
Apr	Computer Science and Society		Seminar: Current Topics in Computer Science		Seminar: Current Topics in Computer Science					
May										
Jun	Lecture-Free Period									
Jul	Bachelor Thesis			Bachelor Thesis						
Aug										
Sep	Lecture-Free Period									
Oct				Specification	Project: Agile Project Management	Elective A Course a	Elective A Course b			
Nov										
Dec				IT Law	Project Software Engineering	Elective B Course c				
Jan										
Feb				IT Law	Project Software Engineering	Elective B Course c	Elective B Course d			
Mar										

**Elective A-***Big Data and Cloud Technologies*

- a) Big Data Technologies\*
- b) Cloud Computing

*Business Intelligence*

- a) Business Intelligence
- b) Project: Business Intelligence

*IT Project and Architecture Management*

- a) IT Project Management
- b) IT Architecture Management

*Mobile Software Engineering*

- a) Mobile Software Engineering
- b) Project: Mobile Software Engineering

*Salesforce Platform Development*

- a) Project: Salesforce Platform App Builder
- b) Project: Salesforce Platform Developer

*Salesforce Platform Management*

- a) Salesforce Fundamentals
- b) CRM with Salesforce Service Cloud

*Software Engineering with Python*

- a) Object oriented and functional programming in Python
- b) Data Science Software Engineering\*

*Internship***Elective B-***Big Data and Cloud Technologies*

- c) Big Data Technologies\*
- d) Cloud Computing

*Business Intelligence*

- c) Business Intelligence
- d) Project: Business Intelligence

*IT Project and Architecture Management*

- c) IT Project Management
- d) IT Architecture Management

*Mobile Software Engineering*

- c) Mobile Software Engineering
- d) Project: Mobile Software Engineering

*Salesforce Platform Development*

- c) Project: Salesforce Platform App Builder
- d) Project: Salesforce Platform Developer

*Salesforce Platform Management*

- c) Salesforce Fundamentals
- d) CRM with Salesforce Service Cloud

*Software Engineering with Python*

- c) Object oriented and functional programming in Python
- d) Data Science Software Engineering\*

*Mastering Prompts*

- c) Artificial Intelligence
- d) Project: AI Excellence with Creative Prompting Techniques

*Career Development*

- c) Personal Career Plan
- d) Personal Elevator Pitch

*AWS Cloud Specialization*

- c) Project: AWS - Cloud Essentials
- d) Project: AWS - Cloud Advanced

*Stadium Generale I and II**Internship*

INTERNATIONAL  
UNIVERSITY OF  
APPLIED SCIENCES



Here you see the order in which you study your courses in presence depending on your personal study start in October or April. Each semester consists of two blocks. In each block, you attend classes on campus for usually three courses to deepen the content in direct exchange with your fellow students and lecturers.

You have lecture-free periods in both June and September, which you can spend reviewing and preparing for exams. Attending the courses on campus is mandatory and will be verified due to Visa regulations (not valid for DACH students).

Each block concludes with a two-week exam preparation phase. You can defer those exams to a later date that you do not want to take during this period. This way, your exam phases are always spread evenly over the year. Exceptions to this are courses that count as admission requirements for other courses.



Attention: Attendance times may vary slightly depending on public holidays and the federal state holidays the campus is located in.



If you are studying Model 2 you will have to start your Bachelor Thesis before completing your final courses.

Note: You can already start with your thesis earlier than the designated block, once you have met the minimum amount of credit points required to enter.



~ Electives: Choose one module with two courses from the Elective A and one module from the Elective B. Every elective module can only be chosen once.

\* This course comes with admissions requirements. Please consult the module handbook for more information.