

CURRICULUM B.Sc. COMPUTER SCIENCE

myStudies

Semester	Presence timeframe	Module	Course Code	Course	ECTS	Type of Exam
1. Semester	Oct/Nov/Dec	Introduction to Computer Science	DLBCSICS01	Introduction to Computer Science	5	Exam
	Oct/Nov/Dec	Object-oriented Programming with Java	DLBCSOOPJ01	Object-oriented Programming with Java	5	Exam
	Oct/Nov/Dec	Intercultural and Ethical Decision Making	DLBCSIDM01	Intercultural and Ethical Decision Making	5	Written Assessment: Case Study
	Jan/Feb/Mar	Mathematics I	DLBCSM101	Mathematics I	5	Exam
	Jan/Feb/Mar	Statistics: Probability and Descriptive Statistics	DLBDSPPDS01	Statistics: Probability and Descriptive Statistics	5	Exam
	Jan/Feb/Mar	Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
2. Semester	Apr/May/Jun	Data structures and Java class library	DLBCSDSJCL01	Data structures and Java class library	5	Exam
	Apr/May/Jun	Mathematics II	DLBCSM201	Mathematics II	5	Exam
	Apr/May/Jun	Web Application Development	DLBCSWAD01	Web Application Development	5	Workbook (passed / not passed)
	Jun/Jul/Aug	Project: Java and Web Development	DLBCSPJWD01	Project: Java and Web Development	5	Portfolio
	Jun/Jul/Aug	Computer Architecture and Operating Systems	DLBCSCAOS01	Computer Architecture and Operating Systems	5	Exam
	Jun/Jul/Aug	Introduction to Academic Work	DLBCSIW01	Introduction to Academic Work	5	Workbook (passed / not passed)
3. Semester	Oct/Nov/Dec	Database Modeling and Database Systems	DLBCSDMDS01	Database Modeling and Database Systems	5	Exam
	Oct/Nov/Dec	Project: Build a Data Mart in SQL	DLBDSPPDM01	Project: Build a Data Mart in SQL	5	Portfolio
	Oct/Nov/Dec	Requirements Engineering	DLBCSRE01	Requirements Engineering	5	Exam
	Jan/Feb/Mar	Algorithms, Data Structures and Programming Languages	DLBCSL01	Algorithms, Data Structures and Programming Languages	5	Exam
	Jan/Feb/Mar	IT Service Management	DLBCSITSM01	IT Service Management	5	Exam
	Jan/Feb/Mar	Project: IT Service Management	DLBCSPITSM01	Project: IT Service Management	5	Written Assessment: Project Report
4. Semester	Apr/May/Jun	Computer Networks and Distributed Systems	DLBCSCNDS01	Computer Networks and Distributed Systems	5	Exam
	Apr/May/Jun	Theoretical Computer Science and Mathematical Logic	DLBCSTCSML01	Theoretical Computer Science and Mathematical Logic	5	Exam
	Apr/May/Jun	Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
	Jun/Jul/Aug	Software Quality Assurance	DLBCSSQA01	Software Quality Assurance	5	Exam
	Jun/Jul/Aug	Specification	DLBCSS01	Specification	5	Exam
	Jun/Jul/Aug	Computer Science and Society	DLBCSCSAS01	Computer Science and Society	5	Written Assessment: Written Assignment
5. Semester	Oct/Nov/Dec	Cryptography	DLBCSCT01	Cryptography	5	Exam
	Oct/Nov/Dec	Introduction to Data Protection and IT Security	DLBCSIDPITS01	Introduction to Data Protection and IT Security	5	Exam
	Oct/Nov/Dec	Agile Project Management	DLBCSAPM01	Agile Project Management	5	Written Assessment: Project Report
	Jan/Feb/Mar	Seminar: Current Topics in Computer Science	DLBCSSCTCS01	Seminar: Current Topics in Computer Science	5	Written Assessment: Research Essay
	Jan/Feb/Mar	IT Law	DLBCSIITL01	IT Law	5	Written Assessment: Case Study
	Jan/Feb/Mar	Project Software Engineering	DLBCSPSE01	Project Software Engineering	5	Written Assessment: Project Report
6. Semester	online	ELECTIVE A*		e.g.	10	
	online	ELECTIVE B*		e.g.	10	
	online	Bachelor Thesis		Bachelor Thesis Thesis Defense	9 1	Bachelor Thesis Presentation: Colloquium
Total					180 ECTS	



INTERNATIONAL
UNIVERSITY OF
APPLIED SCIENCES



The IU International University of Applied Sciences offers you the flexibility to study on Campus for one semester or more and switch to online or the other way around.



Each semester consists of two blocks, so that the examination phases are better distributed over the year.

In each block, there are 9 weeks of attendance to deepen the content in direct exchange with fellow students and lecturers. Each block concludes with a two-week examination phase.



Attention: For the first year in campus studies, the exact sequence must be followed.

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



* Electives: Choose one module from the Elective A and one module from the Elective B.

Note: The Electives will only be held in distance learning (online).

Elective A

Big Data and Cloud Technologies
Business Intelligence
IT Project and Architecture Management
Mobile Software Engineering
Salesforce Platform Development
Software Engineering with Python

Elective B

Big Data and Cloud Technologies
Business Intelligence
IT Project and Architecture Management
Mobile Software Engineering
Salesforce Platform Development
Software Engineering with Python



You can find more information about your degree program in the module handbook on our website.