

	II 2019													
	Program-Specific Modules	Type	Assessment	Period	Status ¹ S	Sem. (CP		Jacobs Track Modules (General Education)	Type	Assessment	Period	Status ¹	Sem.
1 - CHOI						4	45							
the mandatory	CHOICE modules listed below, this is a requirement for the Computer													
	Unit: Programming, Algorithms, and Data Structures (default n	ninor choice modules)				15		Unit: Methods / Skills					
-230	Module: Programming in C and C++				m		7.5	JTMS-MAT-09	Module: Calculus and Elements of Linear Algebra I				m	1
-230-A	Programming in C and C++	Lecture Wri	itten examination	Examination period			2.5	JTMS-09	Calculus and Elements of Linear Algebra I	Lecture V	ritten examination	Examination period		•
-230-B -231	Programming in C and C++ Tutorial	Tutorial			m		7.5	JTMS-MAT-10 JTMS-10	Module: Calculus and Elements of Linear Algebra II Calculus and Elements of Linear Algebra II	Lastona V	ritten examination	Examination period	m	2
-231-A	Module: Algorithms and Data Structures Algorithms and Data Structures	Lecture Wei	itten examination	Examination period	m	2 7	/.5	J1MS-10	Unit: Language	Lecture v	ritten examination	Examination period		
-231-71	Unit: Computer Science, Robotics, and Intelligent Systems	Lecture WII	itten examination	Examination period		1	15		German is default language. Native German speakers take modules	in another offered lans	mage			
-232	Module: Introduction to Computer Science				m		7.5	JTLA-xxx	Module: Language 1	in unouner oriered min	,auge.		m	1
-232-A	Introduction to Computer Science	Lactura Wri	itten examination	Examination period	111	1 /	7.3	JTLA-xxx	Language 1	Seminar	Various	Various	me	1
-232-A -220	Module: Introduction to Robotics and Intelligent Systems	Lecture WII	itten examination	Examination period	m	2 7	7.5	JILIN-AAA	Language 1	Schina	various	various	nic	
-220-A	Introduction to Robotics and Intelligent Systems	Lecture					5	JTLA-xxx	Module: Language 2				m	2
-220-B	Introduction to Robotics and Intelligent Systems Lab	Lab	itten examination	Examination period		2	2.5	JTLA-xxx	Language 2	Seminar	Various	Various	me	
	Unit: CHOICE (own selection)					1/2 1	15							
e two further CF	IOICE modules from those offered for all other study programs. ²													
ar 2 - CORE														
	ules listed below or replace mandatory elective (me) modules with suit	able CORE modules fi	rom other study pro	grams.3		4	45							
	Unit: Advanced Computer Science I (default minor advanced m	odules)					15		Unit: Methods / Skills					
-560	Module: Databases and Web Services				m		7.5	JTMS-MAT-12	Module: Probability and Random Processes				m	3
-560-A	Databases and Web Services - Lecture	Lecture Wri	itten examination	Examination period			5	JTMS-12	Probability and Random Processes	Lecture W	ritten examination	Examination period		
-560-B	Databases and Web Services - Project	Project Proj	ject assessment	During the semester			2.5							
-561	Module: Software Engineering				m		7.5							
-561-A	Software Engineering		itten examination	Examination period			2.5		listed mandatory elective methods modules:					
-561-B	Software Engineering Project	Project Pr	roject assessment	During the semester			5	CO-501	Module: Discrete Mathematics				me	4
-562	Unit: Advanced Computer Science II						15	CO-501-A	Discrete Mathematics	Lecture V	ritten examination	Examination period		
-562-A	Module: Operating Systems	T to W:		The continued an accept of	m	3 7	7.5	JTMS-MAT-13	Module: Numerical Methods ⁴					4
	Operating Systems	Lecture Wri	itten examination	Examination period						Y		m 1 2 1 1 1	me	4
-563	Module: Automata, Computability, and Complexity	Y			m	4 7	7.5	JTMS-13	Numerical Methods	Lecture V	ritten examination	Examination period		
-563-A	Automata, Computability, and Complexity	Lecture Wri	itten examination	Examination period					YY to Y					
-564	Unit: Advanced Computer Science III Module: Computer Networks						15 5		Unit: Language German is default language. Native German speakers take modules	in another offered law				
-564-A	Computer Networks	Lactura Wri	itten examination	Examination period	me	3	3	JTLA-xxx	Module: Language 3	ili another offered lang	guage.		m	3
-565	Module: Legal and Ethical Aspects of Computer Science	Lecture WII	itten examination	Examination period	me	3 2	2.5	JTLA-xxx	Language 3	Seminar	Various	Various	me	
-565-A	Legal and Ethical Aspects of Computer Science	Lecture Post	ter presenation	Examination period	1110		-10	TENT AUX	zangaage	Demmai	various -	various		
-566	Module: Secure and Dependable Systems				me	4	5	JTLA-xxx	Module: Language 4				m	4
-566-A	Secure and Dependable Systems	Lecture Wri	itten examination	Examination period		•	_	JTLA-xxx	Language 4	Seminar	Various	Various	me	- 1
-567-A	Module: Academic Skills in Computer Science	Lecture WII	itten examination	Examination period	me	4 2	2.5	JILIN-AAA	Language 4	Schillar	various	various	nic	
-567-A	Academic Skills in Computer Science	Seminar Proi	ject assessment	Examination period										
ar 3 - CARE	<u>.</u>		,											
						4	45							
INT-900	Module: Summer Internship	<u> </u>			m	4/5 1	15		Unit: Big Questions					
-INT-900-0	Summer Internship	Rep	port/Business Plan	During the 5 th semester				JTBQ-BQ-xxx	Module: Big Questions				m	5/6
-CS-800	Module: Thesis / Seminar CS				m	6 1	15	JTBQ-xxx		Lecture	Various	Various	me	
-CS-800-T	Thesis CS	Thesis	Thesis	15th of May			12		Unit: Community Impact Project					
-CS-800-S	Seminar CS	Seminar	Presentation	During the semester			3	JTCI-CI-950	Module: Community Impact Project				m	5
	Unit: Specialization CS				m	5/6 1	15	JTCI-950	Community Impact Project	Project	Project	Examination period		
	P Specialization Modules													
-S-CS-801	Module: Computer Graphics				me	5	5							
S-CS-801-A	Computer Graphics	Lecture Wri	itten examination	Examination period		,	_							
S-CS-802	Module: Image Processing				me	-	5							
S-CS-802-A	Image Processing	Lecture Wri	itten examination	Examination period	me		5							
S-CS-803	Module: Distributed Algorithms				me	5	5							
-S-CS-803-A	Distributed Algorithms	Lecture Wri	itten examination	Examination period	me	5	5							
S-CS-804	Module: Web Application Development			· · · · · · · · · · · · · · · · · · ·	me	6	5							
S-CS-804-A	Web Application Development	Lecture Wri	itten examination	Examination period			2.5							
3-C3-0U4-A														
00.00.7	Wah Application Development	n i n												
S-CS-804-B S-xxx	Web Application Development Specialization electives (from RIS, ECE study programs) ³		roject assessment itten examination	During the semester Examination period	me		2.5 5							

¹ Status (m = mandatory, me = mandatory elective)
² For a full listing of all CHOICE / CORE / CAREER / Jacobs Track modules please consult the CampusNet online catalogue and /or the study program handbooks.

³For details please see the CS program handbook
⁴ Students who take a minor in Mathematics have to choose Numerical Methods module.