

## Applied Computer Science (180 CP)

### CHOICE / CORE / CAREER

3 <sup>rd</sup> Year	Bachelor Thesis / Seminar m, 10CP			Management me, 5 CP	Agency, Leadership & Accountability m, 5 CP	Argumentation, Data Visualization and Communication** me, 5 CP
	Specialization I ACS me, 5 CP	Specialization II ACS me, 5 CP	Specialization III ACS me, 5 CP		Collaborative Software Project m, 5 CP	
CAREER	Summer Internship / Start-Up (after 2 <sup>nd</sup> year) m, 15 CP					
2 <sup>nd</sup> Year	Software Engineering m, 7.5 CP	Artificial Intelligence m, 7.5 CP	Machine Learning + Machine Learning Tools m, 7.5 CP	Management me, 5 CP	Causation / Correlation** m, 2.5 CP	
	Databases and Web Services m, 7.5 CP	Operating Systems m, 7.5 CP	Data Analytics and Modeling m, 7.5 CP	Probability and Random Processes m, 5 CP	Logic** m, 2.5 CP	
1 <sup>st</sup> Year	Algorithms and Data Structures m, 7.5 CP	Introduction into Cyber Physical Systems m, 7.5 CP	Software Design and Prototyping m, 7.5 CP	Distributed Development m, 5 CP	Calculus and Linear Algebra II m, 5 CP	
	Introduction to Computer Science m, 7.5 CP	Programming in C/C++ m, 7.5 CP	Introduction to Data Science m, 7.5 CP		Calculus and Linear Algebra I m, 5 CP	
CHOICE						

CP: Credit Points

m: mandatory

me: mandatory elective

\*\*Different module perspectives available