

## BACHELOR OF COMPUTER AND INFORMATION SCIENCES BCIS AK3697 2025

		Digital Services (DiS)	Networks and Cybersecurity (NC)	Software Development (SD)	Data Science (DaS)	Computer Science (CS)	Artificial Intelligence (AI) <span style="color: red; font-weight: bold;">Minor only</span>		
Year 1 (L5)	CORE	COMP500 Programming Concepts and Techniques S1, S2, SS							
		COMP501 Computing Technology in Society S1, S2							
		COMP507 IT Project Management S1, S2							
		COMP508 Database System Design S1, S2							
		DIGD507 Mahitahi   Collaborative Practices S1, S2							
	MATH503 Mathematics for Computing S1, S2, SS								
MAJOR		INFS502 Digital Services in IT S2	COMP504 Networks and Internet S1, S2	COMP503 Object Oriented Programming S1, S2	COMP517 Data Analysis S2	COMP503 Object Oriented Programming S1, S2	COMP517 Data Analysis S2		
Year 2 (L6)	MAJOR	COMP603 Programme Design and Construction S1, S2 COMP503 <b>(OR)</b> COMP607 Information Security Technology S2 COMP501	COMP604 Operating Systems S1, S2 COMP503 or COMP504 <hr/> COMP607 Information Security Technology S2 COMP501	COMP602 Software Development Practice S1, S2 COMP603 or COMP610 *Can only replace COMP602 if COMP710 is also taken <hr/> COMP603 Programme Design and Construction S1, S2 COMP503 or COMP610 or ENSE502 <hr/> COMP604 Operating Systems S1, S2 COMP503 or COMP504 <b>(OR)</b> COMP611 Algorithm Design and Analysis S2 COMP610 <hr/> COMP610 Data Structures and Algorithms S1, S2 COMP503	COMP610 Data Structures and Algorithms S1, S2 COMP503 <b>(OR)</b> COMP613 Combinatorics and Graph Theory S1 COMP500 and MATH503 <hr/> COMP615 Foundations of Data Science S1 COMP517 <hr/> COMP616 Statistics for Data Science S1 MATH503 <hr/> STAT603 Forecasting S2 MATH503	COMP610 Data Structures and Algorithms S1, S2 COMP503 or ENSE502 or ENSE602 <hr/> COMP611 Algorithm Design and Analysis S2 COMP610 <hr/> COMP612 Computer Graphics Programming S2 MATH503 and (COMP603 or COMP610) <hr/> COMP613 Combinatorics and Graph Theory S1 COMP500 and MATH503	COMP610 Data Structures and Algorithms S1, S2 COMP503 <b>(OR)</b> COMP613 Combinatorics and Graph Theory S1 COMP500 and MATH503 <b>(OR)</b> COMP615 Foundations of Data Science S1 COMP517		
		INFS603 Needs Analysis, Acquisition and Training S1	COMP609 Network and System Administration S1 COMP504						
		INFS604 Service Modelling S1	ENEL611 Computer Network Applications S1 COMP504						
		INFS605 Microservices S2							
Year 3 (L7)	CORE	COMP702 Research and Development Project (Part 1) S1, S2							
		COMP703 Research and Development Project (Part 2) S1, S2							
	MAJOR	COMP718 Information Security Management S1 <b>(OR)</b> INFS704 Service Innovation and Design S1 <b>(OR)</b> COMP726 Blockchains and Cryptocurrency Technology S2 <b>(OR)</b> COMP728 Internet of Things and Applications S2	COMP714 Advanced Network Technologies S2 COMP609 <b>(OR)</b> COMP729 Enterprise Networks S2 COMP504 <hr/> COMP715 Network Security S2 ENEL611 <hr/> COMP716 Highly Secure Systems S1 COMP611 <b>(OR)</b> COMP718 Information Security Management S1	COMP713 Distributed and Mobile Systems S1 COMP611 <b>(OR)</b> COMP721 Web Development S1 COMP603 <hr/> COMP719 Applied Human Computer Interaction S1 <hr/> ENSE701 Contemporary Issues in Software Engineering S2 COMP603	COMP700 Text and Vision Intelligence S2 <b>(OR)</b> COMP701 Nature Inspired Computing S1 <hr/> COMP717 Artificial Intelligence S1 COMP500 or equivalent; 60 pts at L6 <hr/> COMP723 Data Mining and Knowledge Engineering S2 <div style="background-color: yellow; text-align: center; padding: 2px;"><b>Cannot be taken with Artificial Intelligence</b></div>	COMP711 Theory of Computation S2 COMP610 or COMP613 <hr/> COMP712 Programming Languages S2 COMP603 or COMP610 <hr/> COMP719 Applied Human Computer Interaction S1 <b>(OR)</b> COMP713 Distributed and Mobile Systems S1 COMP611	COMP700 Text and Vision Intelligence S2 <b>(OR)</b> COMP701 Nature Inspired Computing S1 <hr/> COMP717 Artificial Intelligence S1 COMP500 or equivalent; 60 pts at L6 <div style="background-color: yellow; text-align: center; padding: 2px;"><b>Cannot be taken with Data Science</b></div>		

\*Pre-requisites