

AY2024-25
Curriculum for Bachelor of Computing in AI and Society (4 Years)

SUMMARY OF ACADEMIC UNIT REQUIREMENT

Year of Study	Core	MPE	ICC		BDE	Total AU
			Common-Core	Foundational-Core		
1	18	0	9	3	3	33
2	18	0	8	2	6	34
3	10	6	0	10	3	29
4	11	18	0	0	6	35
Total	57	24	17	15	18	131

Recommended Course Schedule

YEAR 1 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-requisite
SC1003	Introduction to Computational Thinking & Programming	F-Core	3	Nil
SC2000	Probability & Statistics for Computing	Core	3	Nil
MH2802	Linear Algebra for Scientists	Core	3	Nil
CC0001	Inquiry & Communication in an Interdisciplinary World	C-Core	2	Nil
CC0002	Navigating the Digital World	C-Core	2	Nil
HW0002	Calculus	-	-	For student not done Calculus
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
			16	

YEAR 1 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-requisite
SC1007	Data Structures & Algorithms	Core	3	SC1003
MH1812	Discrete Mathematics	Core	3	Nil
SC2002	Object Oriented Design & Programming	Core	3	SC1007
SCxxxx	AI For Social Good	Core	3	Nil
CC0003	Ethics & Civics in a Multicultural World	C-Core	2	Nil
CC0005	Healthy Living & Wellbeing	C-Core	3	Nil
			17	

Year 1 Total AU 33

YEAR 2 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-requisite
SC2001	Algorithm Design & Analysis	Core	3	SC1007 & MH1812
SC3000	Artificial Intelligence	Core	3	SC1007 & SC2000
SCxxxx	Ethical AI	Core	3	Nil
CC0006	Sustainability: Society, Economy & Environment	C-Core	3	Nil
ML0004	Career & Innovative Enterprise for the Future World	C-Core	2	Nil
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
			17	

YEAR 2 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-requisite
SC4000	Machine Learning	Core	3	SC1004 & SC1007 & SC2000
SC4001	Neural Networks and Deep Learning	Core	3	SC1004 & SC1007 & SC2000
SCxxxx	AI For Society	Core	3	Nil
HW0218	Communication Across the Sciences	F-Core	2	CC0001
CC0007	Science & Technology for Humanity	C-Core	3	Nil
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
			17	

Year 2 Total AU 34

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite
SC4002	Natural Language Processing	Core	3	SC2001
SCxxx	AI for Computer Vision	Core	3	SC4000
SCxxx	Design Project - AI in Society	Core	4	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
			19	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite
SC3920	Professional Internship (Graded)	F-Core	10	Year 3 Standing
			10	

Year 3 Total AU 29

YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite
SCxxxx	RAI Capstone Project (Part 1)	Core	4	Year 4 Standing
SCxxxx	Introduction to Generative AI	Core	3	SC4000
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
			19	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite
SCxxxx	RAI Capstone Project (Part 2)	Core	4	Year 4 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
			16	

Year 4 Total AU 35

AISC MPE list (U24 and after)		
Choose 8 in total, and at least 2 from each group		
Course Code	AU	Course Title
Technical Group:		
TBA	TBA	Intelligent Agents
TBA	TBA	Blockchain Technology
TBA	TBA	Large Language Models
TBA	TBA	Generative Learning for Computer Vision
TBA	TBA	Deep Generative Models
Society Group:		
TBA	TBA	Person and Society
TBA	TBA	Law of Intellectual Property and New Media
TBA	TBA	Social Entrepreneurship
TBA	TBA	Classical Social Theory
TBA	TBA	Principles of Economics
TBA	TBA	Fundamentals of Politics
Please refer the AISC MPE Courses on CCDS website.		