

Recommended Study Pathway for BEng in Artificial Intelligence (for the 2025-26 intake)

1st Year Fall	Credits		1st Year Spring	Credits
U CORE - English Language I (to be pre-enrolled by CLE)	3		U CORE - English Language II (to be pre-enrolled by CLE)	3
MATH 1013/1023 (Calculus I/Honors Calculus I) / MATH 1020 (Accelerated Calculus)	3 - 4		MATH 1014/1024 (Calculus II/Honors Calculus II) / MATH 1020 (Accelerated Calculus)	3 - 4
COMP 1023 (Introduction to Python Programming)	3		COMP 2211 (Exploring Artificial Intelligence)	3
COMP 1944 (Artificial Intelligence Ethics)	3		U CORE - HMAW 1905B (continued - to be pre-enrolled by Common Core Office)	2
U CORE - HMAW 1905B (to be pre-enrolled by Common Core Office)	1		U CORE - Others	3
COMP 4900 (Academic and Professional Development)	0		COMP 4900 (Academic and Professional Development)	0
	13 - 14			14 - 15

2nd Year Fall	Credits		2nd Year Spring	Credits
MATH 2121/2131 (Linear Algebra/Honors in Linear and Abstract Algebra I)	4		MATH 2411 (Applied Statistics)	4
COMP 2011 (Programming with C++) / COMP 2012H (Honors Object-Oriented Programming and Data Structures)	4 - 5		COMP 2012 (Object-Oriented Programming and Data Structures) / COMP 2012H (Honors Object-Oriented Programming and Data Structures)	4 - 5
COMP 2711/2711H (Discrete Mathematical Tools for Computer Science/Honors Discrete Mathematical Tools for Computer Science)	4		COMP 2611 (Computer Organization)	4
COMP 4900 (Academic and Professional Development)	0		U CORE - Others	3
			COMP 1991 (Industrial Experience)	0
			COMP 4900 (Academic and Professional Development)	0
	12 - 13			15 - 16

3rd Year Fall	Credits		3rd Year Spring	Credits
COMP 3211 (Fundamentals of Artificial Intelligence)	3		COMP 4211 (Machine Learning)	3
COMP 3711/3711H (Design and Analysis of Algorithms/Honors Design and Analysis of Algorithms)	3		COMP 4221/4471 (Introduction to Natural Language Processing/Deep Learning in Computer Vision)	3
COMP Electives #	6		COMP Electives #	6
U CORE - Others	3		U CORE - Others	3
COMP 1991 (Industrial Experience)	0		COMP 1991 (Industrial Experience)	0
COMP 4900 (Academic and Professional Development)	0		COMP 4900 (Academic and Professional Development)	0
	15			15

4th Year Fall	Credits		4th Year Spring	Credits
COMP 4981/H (FYP/FYT)	3		COMP 4981/H (FYP/FYT continued)	3
COMP Electives #	3		COMP Electives #	3
U CORE - Others	6		U CORE - Others	3
COMP 1991 (Industrial Experience)	0		COMP 1991 (Industrial Experience)	0
COMP 4900 (Academic and Professional Development)	0		COMP 4900 (Academic and Professional Development)	0
	12			9

6 courses from the specified elective list, of which at least 4 courses should be taken from Artificial Intelligence area and at least 2 courses from Other COMP area.

Note:

(1) To graduate, students should complete at least 120 credits in approved courses. Students may need to take courses additional to the required and elective courses as specified above to meet this minimum credit requirement.

Recommended Study Pathway for BEng in Artificial Intelligence Plus a Minor (for the 2025-26 intake)

1st Year Fall	Credits		1st Year Spring	Credits
U CORE - English Language I (to be pre-enrolled by CLE)	3		U CORE - English Language II (to be pre-enrolled by CLE)	3
MATH 1013/1023 (Calculus I/Honors Calculus I) / MATH 1020 (Accelerated Calculus)	3 - 4		MATH 1014/1024 (Calculus II/Honors Calculus II) / MATH 1020 (Accelerated Calculus)	3 - 4
COMP 1023 (Introduction to Python Programming)	3		COMP 2211 (Exploring Artificial Intelligence)	3
COMP 1944 (Artificial Intelligence Ethics)	3		U CORE - HMAW 1905B (continued - to be pre-enrolled by Common Core Office)	2
U CORE - HMAW 1905B (to be pre-enrolled by Common Core Office)	1		U CORE - Others	3
COMP 4900 (Academic and Professional Development)	0		COMP 4900 (Academic and Professional Development)	0
	13 - 14			14 - 15

2nd Year Fall	Credits		2nd Year Spring	Credits
MATH 2121/2131 (Linear Algebra/Honors in Linear and Abstract Algebra I)	4		MATH 2411 (Applied Statistics)	4
COMP 2011 (Programming with C++) / COMP 2012H (Honors Object-Oriented Programming and Data Structures)	4 - 5		COMP 2012 (Object-Oriented Programming and Data Structures) / COMP 2012H (Honors Object-Oriented Programming and Data Structures)	4 - 5
COMP 2711/2711H (Discrete Mathematical Tools for Computer Science/Honors Discrete Mathematical Tools for Computer Science)	4		COMP 2611 (Computer Organization)	4
COMP 4900 (Academic and Professional Development)	0		U CORE - Others	3
			Minor Elective	3
			COMP 1991 (Industrial Experience)	0
			COMP 4900 (Academic and Professional Development)	0
	12 - 13			18 - 19

3rd Year Fall	Credits		3rd Year Spring	Credits
COMP 3211 (Fundamentals of Artificial Intelligence)	3		COMP 4211 (Machine Learning)	3
COMP 3711/3711H (Design and Analysis of Algorithms/Honors Design and Analysis of Algorithms)	3		COMP 4221/4471 (Introduction to Natural Language Processing/Deep Learning in Computer Vision)	3
COMP Electives #	6		COMP Electives #	6
U CORE - Others	3		U CORE - Others	3
Minor Elective	3		Minor Elective	3
COMP 1991 (Industrial Experience)	0		COMP 1991 (Industrial Experience)	0
COMP 4900 (Academic and Professional Development)	0		COMP 4900 (Academic and Professional Development)	0
	18			18

4th Year Fall	Credits		4th Year Spring	Credits
COMP 4981/H (FYP/FYT)	3		COMP 4981/H (FYP/FYT continued)	3
COMP Electives #	3		COMP Electives #	3
U CORE - Others	6		U CORE - Others	3
Minor Elective	3		Minor Elective	3
Minor Elective	3		COMP 1991 (Industrial Experience)	0
COMP 1991 (Industrial Experience)	0		COMP 4900 (Academic and Professional Development)	0
COMP 4900 (Academic and Professional Development)	0			
	18			12

6 courses from the specified elective list, of which at least 4 courses should be taken from Artificial Intelligence area and at least 2 courses from Other COMP area.

Note:

(1) To graduate, students should complete at least 120 credits in approved courses. Students may need to take courses additional to the required and elective courses as specified above to meet this minimum credit requirement.

(2) A minor consists of 18 credits or roughly six 3-credit courses.