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

1ˢᵗ Year Fall	Credits
U CORE - English Language I	3
MATH 1013/1023 (Calculus I/Honors Calculus I) / MATH 1020 (Accelerated Calculus)	3 - 4
COMP 1023 (Introduction to Python Programming)	3
U CORE - Others	1
COMP 4900 (Academic and Professional Development)	0
	10 - 11

1ˢᵗ Year Spring	Credits
U CORE - English Language II	3
MATH 1014/1024 (Calculus II/Honors Calculus II) / MATH 1020 (Accelerated Calculus)	3 - 4
COMP 2211 (Exploring Artificial Intelligence)	3
U CORE - Others	5
COMP 4900 (Academic and Professional Development)	0
	14 - 15

2ⁿᵈ Year Fall	Credits
MATH 2121/2131 (Linear Algebra/Honors in Linear and Abstract Algebra I)	4
COMP 2011 (Programming with C++) / 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
U CORE - Others	0
COMP 4900 (Academic and Professional Development)	0
	12 - 13

2ⁿᵈ Year Spring	Credits
MATH 2411 (Applied Statistics)	4
COMP 2012 (Object-Oriented Programming and Data Structures) / COMP 2012H (Honors Object-Oriented Programming and Data Structures)	4 - 5
COMP 2611 (Computer Organization)	4
U CORE - Others	3
COMP 1991 (Industrial Experience)	0
COMP 4900 (Academic and Professional Development)	0
	15 - 16

3ʳᵈ Year Fall	Credits
COMP 3211 (Fundamentals of Artificial Intelligence)	3
COMP 3711/3711H (Design and Analysis of Algorithms/Honors Design and Analysis of Algorithms)	3
COMP Electives #	6
U CORE - Others	3
COMP 1991 (Industrial Experience)	0
COMP 4900 (Academic and Professional Development)	0
	15

3ʳᵈ Year Spring	Credits
COMP 4211 (Machine Learning)	3
COMP 4221/4471 (Introduction to Natural Language Processing/Deep Learning in Computer Vision)	3
COMP Electives #	6
U CORE - Others	3
COMP 1991 (Industrial Experience)	0
COMP 4900 (Academic and Professional Development)	0
	15

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

4ᵗʰ Year Spring	Credits
COMP 4981/H (FYP/FYT continued)	3
COMP Electives #	3
U CORE - Others	3
COMP 1991 (Industrial Experience)	0
COMP 4900 (Academic and Professional Development)	0
	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 2025-26 intake)

1st Year Fall	Credits
U CORE - English Language I	3
MATH 1013/1023 (Calculus I/Honors Calculus I) / MATH 1020 (Accelerated Calculus)	3 - 4
COMP 1023 (Introduction to Python Programming)	3
U CORE - Others	1
COMP 4900 (Academic and Professional Development)	0
	10 - 11

1st Year Spring	Credits
U CORE - English Language II	3
MATH 1014/1024 (Calculus II/Honors Calculus II) / MATH 1020 (Accelerated Calculus)	3 - 4
COMP 2211 (Exploring Artificial Intelligence)	3
U CORE - Others	5
COMP 4900 (Academic and Professional Development)	0
	14 - 15

2nd Year Fall	Credits
MATH 2121/2131 (Linear Algebra/Honors in Linear and Abstract Algebra I)	4
COMP 2011 (Programming with C++) / 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
U CORE - Others	0
COMP 4900 (Academic and Professional Development)	0
	12 - 13

2nd Year Spring	Credits
MATH 2411 (Applied Statistics)	4
COMP 2012 (Object-Oriented Programming and Data Structures) / COMP 2012H (Honors Object-Oriented Programming and Data Structures)	4 - 5
COMP 2611 (Computer Organization)	4
U CORE - Others	3
Minor Elective	3
COMP 1991 (Industrial Experience)	0
COMP 4900 (Academic and Professional Development)	0
	18 - 19

3rd Year Fall	Credits
COMP 3211 (Fundamentals of Artificial Intelligence)	3
COMP 3711/3711H (Design and Analysis of Algorithms/Honors Design and Analysis of Algorithms)	3
COMP Electives #	6
U CORE - Others	3
Minor Elective	3
COMP 1991 (Industrial Experience)	0
COMP 4900 (Academic and Professional Development)	0
	18

3rd Year Spring	Credits
COMP 4211 (Machine Learning)	3
COMP 4221/4471 (Introduction to Natural Language Processing/Deep Learning in Computer Vision)	3
COMP Electives #	6
U CORE - Others	3
Minor Elective	3
COMP 1991 (Industrial Experience)	0
COMP 4900 (Academic and Professional Development)	0
	18

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

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