

**Recommended Study Pathway for BEng in Computer Science (for 2025-26 intake)**

<b>1<sup>st</sup> Year Fall</b>	<b>Credits</b>		<b>1<sup>st</sup> Year Spring</b>	<b>Credits</b>
U. Core English I	3		U. Core English II	3
MATH 1013/1023/1020 (Calculus I/Honors Calculus I/Accelerated Calculus)	3-4		MATH 1014/1024 (Calculus II/Honors Calculus II)	3
COMP 1023 (Introduction to Python Programming)	3		COMP 4900 (Academic and Professional Development)	0
COMP 4900 (Academic and Professional Development)	0			
	9-10			6

<b>2<sup>nd</sup> Year Fall</b>	<b>Credits</b>		<b>2<sup>nd</sup> Year Spring</b>	<b>Credits</b>
MATH 2111 (Matrix Algebra)	3		MATH 2411 / MATH 2421 / MATH 2431 / ELEC 2600	4
COMP 2011 (Programming with C++)	4		/ IEDA 2520 (Prob.) / IEDA 2540 (Stat.)	/ 3
COMP 2711 (Discrete Math)	4		COMP 2012 (OOP & Data Structure)	4
COMP 4900 (Academic and Professional Development)	0		COMP 2611 (Computer Organization)	4
			COMP 1991 (Industrial Experience)	0
			COMP 4900 (Academic and Professional Development)	0
	11			11-12

<b>3<sup>rd</sup> Year Fall</b>	<b>Credits</b>		<b>3<sup>rd</sup> Year Spring</b>	<b>Credits</b>
COMP 3111 (Software Engineering)	4		COMP Area Elective #	3
COMP 3511 (Operating Systems)	3		COMP Area Elective	3
COMP 3711 (Design/Analysis Alg.)	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			
	10			6

<b>4<sup>th</sup> Year Fall</b>	<b>Credits</b>		<b>4<sup>th</sup> Year Spring</b>	<b>Credits</b>
COMP 4981/H (FYP/FYT)	3		COMP 4981/H (FYP/FYT continued)	3
COMP Area Elective	3		COMP Other-Area Elective	3
COMP Other-Area Elective	3		COMP 2000-level or above 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
	9			9

# Students must take 3 COMP courses from one area and 2 courses from other area(s).

Note:

(1) To graduate, students should complete at least 120 credits in approved courses. They 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 Computer Science Plus a Minor (for 2025-26 intake)**

<b>1<sup>st</sup> Year Fall</b>	<b>Credits</b>		<b>1<sup>st</sup> Year Spring</b>	<b>Credits</b>
U. Core English I	3		U. Core English II	3
MATH 1013/1023/1020 (Calculus I/Honors Calculus I/Accelerated Calculus)	3-4		MATH 1014/1024 (Calculus II/Honors Calculus II)	3
COMP 1023 (Introduction to Python Programming)	3		COMP 4900 (Academic and Professional Development)	0
COMP 4900 (Academic and Professional Development)	0			
	9-10			6

<b>2<sup>nd</sup> Year Fall</b>	<b>Credits</b>		<b>2<sup>nd</sup> Year Spring</b>	<b>Credits</b>
MATH 2111 (Matrix Algebra)	3		MATH 2411 / MATH 2421 / MATH 2431 / ELEC 2600	4
COMP 2011 (Programming with C++)	4		/ IEDA 2520 (Prob.) / IEDA 2540 (Stat.)	/ 3
COMP 2711 (Discrete Math)	4		COMP 2012 (OOP & Data Structure)	4
COMP 4900 (Academic and Professional Development)	0		COMP 2611 (Computer Organization)	4
			<b>Minor Elective</b>	<b>3</b>
			COMP 1991 (Industrial Experience)	0
			COMP 4900 (Academic and Professional Development)	0
	11			14-15

<b>3<sup>rd</sup> Year Fall</b>	<b>Credits</b>		<b>3<sup>rd</sup> Year Spring</b>	<b>Credits</b>
COMP 3111 (Software Engineering)	4		COMP Area Elective #	3
COMP 3511 (Operating Systems)	3		COMP Area Elective	3
COMP 3711 (Design/Analysis Alg.)	3		<b>Minor Elective</b>	<b>3</b>
<b>Minor Elective</b>	<b>3</b>		<b>Minor Elective</b>	<b>3</b>
COMP 1991 (Industrial Experience)	0		COMP 1991 (Industrial Experience)	0
COMP 4900 (Academic and Professional Development)	0		COMP 4900 (Academic and Professional Development)	0
	13			12

<b>4<sup>th</sup> Year Fall</b>	<b>Credits</b>		<b>4<sup>th</sup> Year Spring</b>	<b>Credits</b>
COMP 4981/H (FYP/FYT)	3		COMP 4981/H (FYP/FYT continued)	3
COMP Area Elective	3		COMP Other-Area Elective	3
COMP Other-Area Elective	3		COMP 2000-level or above Elective	3
<b>Minor Elective</b>	<b>3</b>		<b>Minor Elective</b>	<b>3</b>
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			12

# Students must take 3 COMP courses from one area and 2 courses from other area(s).

Note:

(1) To graduate, students should complete at least 120 credits in approved courses. They 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.