



B.S. in C.S - Artificial Intelligence Track

Total Credits: 76

(22 Courses, 76 Credits, 4 Years)

Semester	Subj/Course #	Title	Term Completed	✓	Credits
First Year					
Fall	COM 1300	Intro to C.S.			4
	<i>MAT 1412</i>	<i>Calculus I</i>			4
	YC Core #1				
Spring	COM 1320	Data Structures			4
	<i>MAT 1413</i>	<i>Calculus II</i>			4
	COM 1310	Mathematics for Computer Science			4
	YC Core #2				
Second Year					
Fall	COM 2545	Intro to Algorithms			4
	COM 2113	Computer Organization			4
	<i>MAT 2105</i>	<i>Linear Algebra</i>			3
	YC Core #3				
Spring	COM 2546	Design & Analysis of Algorithms			4
	<i>MAT 1510</i>	<i>Multivariable Calculus</i>			4
	<i>MAT 2461</i>	<i>Probability Theory</i>			3
	YC Core #4				
Third Year					
Fall	COM 3760	Artificial Intelligence			3
	COM 3640	Programming Languages			3
	<i>MAT 2462</i>	<i>Mathematical Statistics</i>			3
	YC Core #5				
Spring	COM 3920	Machine Learning			3
	COM 3580	Modern Data Management			3
	COM 3610	Operating Systems			3
	YC Core #6				
Fourth Year					
Fall	COM 3800	Distributed Systems			3
	COM 4010	Advanced Machine Learning			3
	COM 3820	Parallel Algorithms & Programming			3
	YC Core #7 - ELECTIVE				
Spring	COM 3930	Natural Language Processing			3
	COM 4020	Capstone Project			4
	YC Core #8 - ELECTIVE				

NOTE: Requires the Core Curriculum found on page 2

Non-C.S. Requirements for the B.S. Degree

- All students need a total of 128 credits to graduate
- Students in either B.S. track have the non-C.S. requirements show in the table below.
- B.S. Computer Science programs require no less than 8 full-time terms, including 8 terms of UTS.
- If a student has 32 credits from the YU Israel program, the only courses he must take outside the CS major to reach 128 credits are the 8 YC Core classes listed below. In that case, we very strongly recommended that students take only one YC Core class each semester to evenly distribute their workload across semesters.
- If a student did NOT transfer or attend the YU Israel program, he must take up to an additional 30 elective/shiur credits **beyond** the courses below.

Requirement	Subj/Course #	Term Completed	Credits
First Year Writing			3
BIB, JHI, JST, or JTP ^			2
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Choose from Contemporary World Cultures (COWC) or Cultures Over Time (CUOT)			3
Interpreting the Creative (INTC)			3
Human Behavior and Social Institutions (HBSI)			3
Electives: choose two from any of the following Y.C. departments: ART, BIO, BIB, CHE, ECO, ENG, HEB, HIS, JHI, JST, JTP, MUS, PHI, PHY, POL, PSY, SOC			
			3
			3
Total			22

^ IBC students can take these classes during their morning program.

JSS students must complete 8 semesters of JSS requirements during their morning program.

For more details regarding what the various categories (COWC, HBSI, etc.) mean, what Y.C. courses count towards them, etc. please consult InsideTrack or academic advising.

For answers to frequently asked questions about the requirements, please visit <https://www.yu.edu/yeshiva-college/ug/computer-science/requirements>