

Checklist for the Computer Science Major

— Effective Fall 2022

(This checklist should be used for reference ONLY)



Student ID: _____

Name: _____

Course	BA	BS	MIN
Computer Science – Level 1			
CS 111. <i>Intro to Algo Prob Solv</i>			
CS 211. <i>OOP in C++</i>			
CS 212. <i>OOP in Java</i>			
CS 220. <i>Discrete Structures</i>			
CS 240. <i>Comp Org & Assem Lang</i>			
Computer Science – Level 2			
CS 313. <i>Data Structures</i>			
CS 316. <i>Princ of P Ls</i>			
CS 320. <i>Theory of Computation</i>			
CS 323. <i>D & A of Alg</i>			
CS 331. <i>Database Systems</i>			
CS 340. <i>Operating Systems</i>			
CS 343. <i>Computer Architecture</i>			
CS 370. <i>Software Engineering</i>			
Electives **	9 cr	21 cr	
Mathematics			
MATH 120 [‡] . <i>Discrete Math</i>			
MATH 141. <i>Calc I</i>	or	MATH 151	
MATH 142. <i>Calc II</i>		MATH 152	
MATH 143 <i>Calc III</i>			
MATH 231 or 237. <i>Linear Algebra</i>			
MATH 241 ^{‡‡} , 611 or 621. <i>Prob/Stat</i>			

Notes:

- All CS courses must be completed with a grade of C or better.
- All non-CS courses must be completed with a grade of C- or better.
- No courses required for the major or minor may be taken P/NC. This is a College policy.
- No course may be taken until all prerequisite courses are completed with a minimum passing grade.
- 50% of the courses required for the major or minor must be completed at Queens College.
- 50% of the computer science courses must be completed at Queens Colleges.
- Courses may be taken on permit only at senior (four-year) colleges.

** Electives chosen from Computer Science courses numbered 300-396 totaling 9 credits for the BA and 21 credits for the BS.

One course from the following list may be used for **one elective** for the major:

- Biology* 330;
- Mathematics* 202, 223, 224, 232, 242, 245, 247, 248, 317, 333, 337, 341, 342, 609, 613, 619, 621, 623, 624, 625, 626, 633, 634, 635, 636;
- Physics* 225, 227, 265, or 311.

Transfer blanket credit courses (499) may **not** be used as electives.

‡ Mathematics 220 is acceptable **only** for student who complete a major or minor in mathematics.

‡‡ Economics 249 is acceptable **only** for students who complete a major or minor in economics.