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. Intro to Algo Prob Solv				
CS 211. OOP in C++				
CS 212. OOP in Java				
CS 220. Discrete Structures				
CS 240. Comp Org & Assem Lang				
Computer Science – Level 2				
CS 313. Data Structures				
CS 316. Princ of P Ls				
CS 320. Theory of Computation				
CS 323. D & A of Alg				
CS 331. Database Systems				
CS 340. Operating Systems				
CS 343. Computer Architecture				
CS 370. Software Engineering				
Electives **		9 cr	21 cr	
Mathematics				
MATH 120 [‡] . Discrete Math				
MATH 141. Calc I	MATH 151			
MATH 142. Calc II or				
MATH 143 Calc III	MATH 152			
MATH 231 or 237. Linear Algebra				
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 (fouryear) 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 students who complete a major or minor in mathematics.
- **‡‡** Economics 249 is acceptable **only** for students who complete a major or minor in economics.