# **Checklist for the Computer Science Major**

- Effective Fall 2018

(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. <i>OOP in C++</i>			
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. Design & Analysis of Algorithms			
CS 331. Database Systems			
CS 340. Operating Systems			
CS 343. Computer Architecture			
CS 355. Internet & Web Tech			
CS 370. Software Engineering			
Electives **	6 cr	18 cr	
Mathematics	-		
MATH 120 <sup>‡</sup> . Discrete Math			
MATH 151. Calculus I			
MATH 152. Calculus II			
MATH 231 or 237. Linear Algebra			
MATH 241 <sup>‡‡</sup> , 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 6 credits for the BA and 18 credits for the BS.

One course from the following list may be used for **one elective** for the major unless it has been applied towards the fulfillment of the math requirements:

### Biology 330;

*Mathematics* 202, 223, 224, 232, 242, 245, 247, 248, 301, 317, 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.