Checklist for the
Computer Science Major
Effective Fall 2004

Course	BA	BS
Computer Science – Level 1		
CS 111 *Intro to Alg Prob Solv*		
CS 211 *OO Programming in C++*		
CS 212 *OO Programming in Java*		
CS 220 *Discrete Structures*		
CS 240 *Computer Organization*		
Computer Science – Level 2		
CS 313 *Data Structures*		
CS 316 *Programming Languages*		
CS 320 *Theory of Computing*		
CS 323 *Design & Analysis of Alg.*		
CS 331 *Database Systems*		
CS 340 *Operating Systems*		
CS 343 *Computer Architecture*		
CS 370 *Software Engineering*		
**Electives ** **	*9 cr*	*15 cr*
	■	
	■	
Mathematics		
Math 120 *Discrete Math*		
Math 151 or 117 *Calculus I*		
Math 152 or 118 *Calculus II*		
Math 231 or 237 *Linear Algebra*	■	
Math 241‡, 611 or 621 *Prob/Stat*		
Physics		
Physics 103___and 204__, and either Physics 225___ or 227___ *or* Biology 107___ and 108___ *or* Chemistry 113___ and 114___ *or* Physics 145___, 146___ and either Physics 204, 225 or 227___	■	
Lab science sequence		
Biology 107___ and 108___ *or* Chemistry 113___ and 114___ *or* Physics 145___ and 146___ *or* Physics 103___ and 204___		■

These requirements apply to all students who received credit for CS 111 in the Fall 2004 semester or later. If you began the major prior to that time, you should consult with an undergraduate adviser for the regulations on transition from previous to current requirements.

Notes:

- All computer science courses must be completed with a grade of C or better. Courses satisfying requirements taken in other departments must be completed with a 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 grade of C (or C-, see above) or better.
- 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 College.
- Courses may be taken on permit only at senior (four-year) colleges

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** Electives chosen from Computer Science courses numbered 300-699 totaling 12 credits for the BA and 15 credits for the BS

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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 or science requirements:
Biology 330;
Mathematics 202, 223, 224, 232, 242, 245, 247, 248, 317, 333, 337, 609, 613, 619, 621, 623, 624, 625, 626, 633, 634, 635 or 636;
Physics 225, 227, 265 or 312.
Transfer blanket credit courses (499) may **not** be used as electives.

‡ Economics 249 is acceptable **only** for students who complete a major or minor in economics.
‡ Mathematics 220 is acceptable **only** for student who complete a major or minor in mathematics.