**Checklist for the Computer Science Major Curriculum 2005**

(This checklist should be used for reference ONLY)

## 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 PLs*
- CS 320. *Theory of Computation*
- CS 323. *Design & Analysis of Algo*
- 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. *Calculus I*
- MATH 152. *Calculus II*
- MATH 231 or 237. *Linear Algebra*
- MATH 241, 611 or 621. *Prob/Stat*

## Lab Science Sequence
- PHYS 145, 146, 204
- or PHYS 103, 204, and either 225 or 227
- or PHYS 103, 204, BIOL 1050, 1060
- or PHYS 103, 204, CHEM 113,114

## Lab Science Sequence
- BIOL 1050, 1060
- or CHEM 113, 114
- or PHYS 103, 204
- or PHYS 145, 146

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**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 15 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 or science requirements:
- *Biology* 330;
- *Physics* 225, 227, 265, or 311.

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.