Worksheet for COMPUTER SCIENCE, B.S.

**DEPARTMENT: Physical Sciences**

**Baccalaureate Degree (Minimum 124 Credits)**

**Cumulative “2.0” or Better Required for Graduation**

**NAME _____________________________________**

**COMMON CORE:**
- **15 Credits**
  - Analytical Reading/Writing: WRT102 __
  - Academic Writing: WRT202 __
  - Human Communication: CM104 __
  - Calculus I: MAT171 __
  - Physical Education: (2 crs.) ________

**AREA DISTRIBUTION REQUIREMENTS:**

**I. Fine Arts & Humanities**: 6 Credits
- ______________________ ________
- ______________________ ________

**II. Social & Behavioral Sciences**: 6 Credits
- ______________________ ________
- ______________________ ________

**III. Laboratory Sciences**: Satisfied by Major Requirements
- ______________________ ________
- ______________________ ________

**SIX CREDITS TO BE TAKEN IN ONE OF THESE TWO AREAS; IF A FOREIGN LANGUAGE IS SELECTED, SIX CREDITS MUST BE IN ONE LANGUAGE.**

**IV. American and Western Civilization, American Government**: 6 Credits
- ______________________ ________
- ______________________ ________

**V. International Studies/Foreign Language**: 6 Credits
- ______________________ ________
- ______________________ ________

**ELECTIVE COURSES**: 12 Credits
- ______________________ ________
- ______________________ ________
- ______________________ ________
- ______________________ ________
- ______________________ ________
- ______________________ ________
- ______________________ ________

**REQUIRED MAJOR COURSES**: 73-76 Cr.

**Science & Math Component**: (25-28 Cr.)

**(PHY160 and [PHY162 or PHY260 or PHY262]) or (CHM134/136) or (BIO150/152) and one (1) four-credit additional ADR III Lab Science course**

- Calculus II: MAT172 __
- Discrete Mathematics: MAT225 __
- Probability & Statistics: MAT350 __
- Linear Algebra: MAT260 __
- Calculus III: MAT271 __
- Differential Equations: MAT272 __

**Computer Science Component**: (36 Cr.)

- CPADS CS100 __
- Fund. of Computer Science I CS101 __
- Fund. of Computer Science II CS201 __
- Software Engineering & Design CS320 __
- Network Application & Protocols CS330 __
- Programming Language Design CS340 __
- Data Structures CS350 __
- Analysis of Algorithms CS360 __
- Operating Systems CS420 __
- Social & Professional Issues CS456 __
- Senior Software Project I CS481 __
- Fund. Comp. Engineering ECE260 __
- Computer Science Electives: (12 Cr.) Choose four from the following:
  - CS365, CS370, CS470, CS482, CS490, CS495, CS496, CS497, CS498, ECE370, IFS335, MAT391, MAT470 __

**NOTES:**

- **A grade of 2.0 or better is required.**
- **If PHY160/260 is selected, then PHY110/112 may not be taken to satisfy the additional lab science requirement.**
- At least four 300-400 level courses and one programming language course must be taken at York College.

- All courses must be completed with a minimum “2.0” grade. The common core of study defines the minimum competency to be achieved by all graduates in each area of the common core.

- A minimum of 12 credits of the Area Distribution Requirements must be at the 200-level or above. Courses may not be taken on a pass/fail basis. See Registrar’s Office for official list of courses.

- Six credits are to be taken in one of these two areas; if a foreign language is selected, six credits must be in one language.

- Requirements listed apply to students who matriculate into or declare this major during the 2012-2013 academic year.

**(Signed) Faculty Advisor Date**

**(Signed) Dept. Chair Date**