## COMPUTER SCIENCE DEPARTMENT 2016-2018 PROPOSED SOPHOMORE PLAN OF STUDY

| Student Name:              |                                    |                              |                             |
|----------------------------|------------------------------------|------------------------------|-----------------------------|
| E-mail address:            |                                    |                              |                             |
| CPSC Honors Minor          | Requirements - six courses         | in computer science:         |                             |
| Required courses in compu  | ter science. Must be taken befo    | re any upper-level CS cour   | rse:                        |
| CPSC21*                    | Semester and Year                  |                              |                             |
| CPSC31                     | Semester and Year                  |                              |                             |
| CPSC35                     | Semester and Year                  |                              |                             |
| Two upper-level courses da | rawn from different groups, see li | nk: http://www.cs.swarthmo   | re.edu/courses/future.html: |
| Course                     | Semester and Year                  | Group                        | _                           |
| Course                     | Semester and Year                  | Group                        | _                           |
| Any CPSC course numbered   | ed above CPSC35 (must different    | from those chosen above)     |                             |
| One Elective:              |                                    | and Year                     |                             |
| One mathematics course at  | or above MATH27 (Discrete Ma       | nth or Linear Algebra is rec | commended):                 |
| Math                       | Samasta                            | and Year                     |                             |
| Course                     | Schiester                          | and Iva                      |                             |

\*If exempted from CPSC21, substitute any upper-level course.

Each honors preparations consists of two courses. Pick your 2-credit honors preparations from the following sets. For your preparation, specify the focus course and the breadth. For example, CPSC 41 and CPSC 46 are a valid course preparation pairing, but CPSC 41 and CPSC 68 are not. Honors minors must have at least two distinct courses in their set of one 2-credit preparations

## **Preparation Sets**

Set 0 CPSC 41 Algorithms

CPSC 46 Theory of Computation

CPSC 49 Probabilistic Method

Set 1 CPSC 63 Artificial Intelligence

CPSC65 Natural Language Processing

**CPSC 68 Bioinformatics** 

**CPSC 81 Adaptive Robotics** 

Set 2 CPSC 43 Computer Networks

CPSC 44 Database Systems

**CPSC 45 Operating Systems** 

CPSC 87 Parallel and Distributed Computing

**CPSC 89 Cloud Computing** 

Set 3 CPSC 37 Structure and Interpretation of Computer Programs

**CPSC 73 Programming Languages** 

**CPSC 75 Compilers** 

Set 4 CPSC 40 Computer Graphics

CPSC 87 Parallel and Distributed Computing

## **Honors Minor Preparation**

| Focus course:   | Semester: |
|-----------------|-----------|
|                 |           |
|                 |           |
| Breadth course: | Semester: |