

Roosevelt University

Evelyn T. Stone College of Professional Studies - Bachelor of Professional Studies

BPS Major in COMPUTER SCIENCE

Student _____ Advisor _____

Phone _____ ID# _____ Date _____ Unofficial Official

BGS 201 (6 s.h.) or 302 (Pro-Seminar OR Methods of Critical Reasoning)

(Note: BGS 302, for Fast Track **AND** Next Step students, requires AA/AS degree **OR** 60 s.h. with 2.0 gpa)

RECOMMENDED INTRODUCTORY WORK (English and/or Math): _____

SUGGESTED INTRODUCTORY WORK (for students with no previous computer coursework): BGS 290

UNIVERSITY WRITING REQUIREMENT: ENG 101 _____ ENG 102 _____ Other ENG _____

MAJOR COURSES: (See reverse side of this sheet for more information on these requirements.)

CORE COURSES: Choose Applications track - 263, 373, 327, 370 or Systems track - 250, 280, 340, 317

CST 150 _____
Computer Science I

CST 250 or 263 _____
C.S. II (w/MATH 245) or V. BASIC I

CST 261 _____
Intro. to Assembler Language & Architecture

CST 270 _____
Systems Analysis & Design

CST 333 _____
Database Design

CST 280 or 373 _____
C.S. III/Data Struct. or Visual BASIC II

CST 327 or 340 _____
Project Mgmt. or Comp. Architecture

CST 317 or 370 _____
Operating Systems or Software Engineering

Computing Electives: Choose any two 200-level (or above) and three 300-level CST courses.

CST 2 _____

CST 2 _____

CST 3 _____

CST 3 _____

CST 3 _____

MATH 121 _____
College Algebra

MATH 245 _____
Discrete Structures

PHIL 210 _____
Logic

ELECTIVE: 1 course _____

INTERDISCIPLINARY SEMINARS (Note: May waive one Seminar with 9 s.h. transfer credit in area, not used elsewhere in curriculum, with 2.0 gpa. Students with AA/AS or 60 s.h. may waive two Seminars with 9 s.h. in two areas and 2.0.)

BGS 390 Seminar in Social Sciences _____

BGS 391 Seminar in Natural Sciences* _____

BGS 392 Seminar in Humanities _____

SENIOR THESIS BGS 399 _____

* Students must take at least **one** BGS Interdisciplinary Seminar. Students needing at least 2 seminars may substitute PHYS 365 and 366 for Natural Sciences.

I fully understand that the courses listed on this checksheet are the requirements for this major. Any change of major may require different and/or additional courses. DATE _____

STUDENT'S SIGNATURE _____ ADVISOR'S SIGNATURE _____

Notes Concerning the BPS Major in Computer Science

1. BPS degrees are only available to students 24 years of age or older.
2. Students with ≤ 60 sem. hrs. of accepted transfer credit may be exempted from one Senior Seminar if their transfer credit includes at least 9 sem. hrs. of credit with a C average in the area of that seminar.
3. Students with 60 or more sem. hrs. of accepted transfer credit, and a grade point average of 2.0 or above take BGS 302 instead of BGS 201, and are exempted from up to two Senior Seminars if their transfer credit includes at least 9 sem. hrs. of credit with a C average in the area of those seminars.
4. All CST courses (or major transfer credit) must be passed with a grade of C or higher.
5. A minimum of 12 semester hours of CST courses (excluding experiential/proficiency credit) must be taken at Roosevelt to earn a degree.
6. A maximum of 9 semester hours of CST credit can be earned through experiential/proficiency exams. A memo describing the procedure for obtaining experiential/proficiency credit is available from the CST school office, (847) 619-8538.
7. Prior to registering for CST courses, students should contact a CST advisor at the Downtown Campus at (312) 281-3109 or at the Robin Campus at (847) 619-8537. The BPS advisor should be consulted for other courses.
8. Students with little or no on-the-job experience should consider pursuing an internship. The Career Planning Office can assist in the search for an area company willing to provide internship opportunities. Three semester hours of CST 395 credit can be earned through such internship programs. Contact the CST Director for more information in this regard.

Students who have completed the following courses with grades of C or higher are eligible for a Computer Science Certificate.

A. Math Background: MATH 121 or 245 _____
College Algebra or Discrete Structures

B. CST Courses: Choose Applications track = 150, 263, 373 or Systems Track = 150, 250, 280

CST 150 _____
Computer Science I

CST 250 **or** 263 _____
Computer Science II (w/MATH 245) **or** Visual BASIC Programming I

CST 261 _____
Intro. to Assembler Language & Architecture

CST 270 **or** 317 _____
Systems Analysis Design **or** Operating Systems

CST 333 _____
Database Design

CST 280 **or** 373 _____
Computer Science III/Data Structures **or** Visual BASIC Programming II

CST 3 __ __ _____
300-level elective