

Supplemental information regarding the BSCS Degree Requirements

The following information supplements that provided in the University Academic Guide. It applies to students who matriculated Fall 2016 or after.

All required Computer Science courses, except CS 101, are offered every semester. The minimum grade in a required Computer Science course must be at least a C- to be allowed to take any Computer Science course, for which it is a prerequisite.

Calculus Topics are broken down as follows:

- MATH 224. Differential Calculus
- MATH 225. Integral Calculus
- MATH 226. Integration Techniques and Applications
- MATH 227. Infinite Series

Humanities/Social Science – May be filled by courses offered by the Division of Humanities, the Division of Social Sciences, the Psychology Department and HDEV courses offered by the College of Community and Public Affairs. Many of the courses taken to meet the General Education requirements will fulfill the Humanities/Social Science requirement.

Mathematics - Students who are strong in math are encouraged to take MATH 330 (Number Systems) instead of MATH 314 (Discrete Mathematics). Students with a strong math background may take MATH 381 (Graph Theory) as their Math elective. The following Binghamton University course can be substituted for MATH 327: MATH 448 (Mathematical Statistics), which has a prerequisite of MATH 323 and MATH 447.

Free Electives – May be filled by extra courses from any of the areas listed above, SOM courses, or additional Computer Science courses. A maximum of 2 HWS credits may be counted as Free Elective credits. At least four free elective credits must be in Liberal Arts and Science in order to ensure the 60 credits needed for a BS degree. CS 110 counts as a free elective.

Prerequisites for Computer Science Courses

The MATH and CS pre-requisites must have a grade of at least C-.

Course	Prerequisites
CS 101	None
CS 110	MATH 225 ¹
CS 120	CS 110, MATH 225 ¹
CS 210	CS 110, MATH 225
CS 220	CS 120, 140
CS 310	CS 120, 140, MATH 226 ¹
CS 301	CS 101, Gen Ed C/J course, CS 220/240 ²
CS 320	CS 220
CS 350	CS 220, 240, 301 ¹
CS 373	CS 140, MATH 314/330 ^{2,3}
CS 375	CS 240, MATH 227, 314/330 ^{2,3} , CS 301 ¹
CS 402	CS 220, 240
CS 415	CS 350, 375, MATH 327/448 ^{2,3}
CS 424	CS 350, 375
CS 426	CS 320/350
CS 427	CS 350, CS 375
CS 428	CS 350
CS 432	CS 375
CS 433	CS 375
CS 435	CS 375, MATH 304, 327/448 ^{2,3}

Course	Prerequisites
CS 436	CS 375, MATH 327/448 ^{2,3}
CS 440	CS 240, 350
CS 441	CS 140, 375
CS 442	CS 140, 375
CS 444	CS 320/350/375 ²
CS 445	CS 350/375
CS 447	CS 220, CS 240, (CS 320/350 ²)
CS 451	CS 350
CS 452	CS 350
CS 453	CS 350
CS 455	CS 375
CS 456	CS 375
CS 457	CS 350
CS 458	CS 350, 375
CS 459	CS 375, MATH 327/448 ^{2,3}
CS 460	CS 375
CS 465	CS 375
CS 471	CS 373, 375
CS 472	CS 373, 375
CS 476	CS 140, 320, 350

¹ Can be taken concurrently with the course in the left column

² The notation Course1/Course2 indicates that these courses are alternatives: take either Course1 or Course2.

³ Prerequisites for MATH courses are found in the University Academic Guide for the Mathematics Programs.