Program map for Computer Science Bachelor of Science Computer Science (BSCS)

2025-26

Gain hands-on skills in coding, data science, software development, and more, setting you up for a high-demand, high-paying career.

View this program in the LCC Catalog (lowercolumbia.edu/publications/catalog/programs/STEM-BS-Computer-Science)

See also

- Degree Requirements for Science, Technology, Engineering and Math (STEM) programs (lowercolumbia.edu/programs/stem)
- Course descriptions in the LCC Catalog (lowercolumbia.edu/publications/catalog/courses)
- Distribution lists in the LCC Catalog (lowercolumbia.edu/publications/catalog/distribution-lists)

Important: Many course sequences only begin in fall quarter. Check with your program advisor.

By Quarter Overview

First Quarter

- COLL 101: College Success 101 (2 credits)
- MATH& 141 PreCalculus I (5 credits) - Elective
- ENGL& 101: English Composition I (5 credits)
- CMST 220 or 230 Public Speaking or Small Group Communication (5 Credits)

Second Quarter

- CS 170 Programming I (5 credits)
- IT 249 Linux Operating System (5 Credits)
- MATH& 142: PreCalculus II (5 Credits) - Elective

**Pre- and/or co-requisite(s)*

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Meet with Advisor (lowercolumbia.edu/advising/meet-with-advisor)

Third Quarter

- MATH& 146 Introduction to Statistics (5 credits)
- ENGL& 235 Technical Writing (5 credits)
- Natural Science with lab from the distribution list
  - Recommend one of the following: BIOL& 160, BIOL& 221, BIOL& 222, BIOL& 223, BIOL& 241, CHEM& 161, PHYS& 221, PHYS& 222, PHYS& 223, ERSI 104, ENVS 215, GEOL 105, GEOL 118, GEOL& 101, GEOL& 208, or OCEA& 101 (5 credits)

Meet with Advisor (lowercolumbia.edu/advising/meet-with-advisor)

Fourth Quarter

- CS 270: Data Structures I (5 credits)
- MATH& 151 Calculus or Elective (5 Credits)
- ENGR 205 Design of Logic Circuits (5 Credits)

Meet with Advisor (lowercolumbia.edu/advising/meet-with-advisor)

Fifth Quarter

- CS 275 Object Oriented Programming (5 Credits)
- ENGR 206 Microprocessor Systems (5 Credits)
- MATH& 215 Discrete Math (5 Credits)

Sixth Quarter

- CS 280 Advanced Data Structures (5 Credits)
- CS 285 Programming Tools (5 Credits)
- Choose one for elective credit from Distribution List categories Humanities or Social Science:

Detailed Class Sequence

1. College Success

COLL 101: College Success 101 (2 credits)

2. Pre-Major Requirement

CS 170: Computer Programming (5 credits)

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3. Communications Requirement

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ENGL& 101: English Comp I (5 credits)

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4. Math Requirement

MATH& 151: Calculus I (5 credits)

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5. Pre-Major Requirement

CS 275: Object Oriented Programming (5 credits)

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6. Pre-Major Requirement

ENGL& 235: Technical Writing (5 credits)

• Prerequisite/s: ENGL& 101 with grade of C or better

7. Pre-Major Requirement

MATH 215: Discrete Structures (5 credits)

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8. Social Sciences Requirement

ECON& 201: Micro Economics (5 credits))

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9. Pre-Major Requirement

10. Pre-Major Requirement

11. Pre-Major Requirement

CS 270: Data Structures I (5 credits)

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12. Humanities / Diversity Requirement

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HIST& 128: World Civilizations III (5 credits) or SOC& 101 Introduction to Sociology (5 credits)

13. Humanities Requirement

Choose one Humanities course from the distribution list from a discipline other than HIST or ECON (5 credits)

14. Lab Based Science Course Requirement

Choose one of these recommended courses:

- BIOL& 100: Survey of Biology w/ Lab (5 credits)
- BIOL& 160: General Biology w/ Lab (5 credits)
- CHEM& 110: Chemical Concepts w/ Lab (5 credits)
- CHEM& 121: Intro to Chemistry w/ Lab (5 credits)
- CHEM& 161: General Chem w/ Lab 1 (5 credits)
- ENVS 215: Environmental Issues & Applications w/ Lab (5 credits)
- ERSI 105: Earth Systems w/ Lab (5 credits)

Other lab-based science courses may also work. Consult with an LCC advisor and the transfer university.

15. Pre-Major Requirement

CS 280 Advanced Data Structures (5 credits)

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16. Pre-Major Requirement

CS 285 Programming Tools (5 credits)

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