

# Computer Science

## Degree Type

Bachelor of Arts

## Total credit requirements for a Computer Science major

- 30 credits (37 credits with neither prior credit for Mathematics 125 nor placement above Computer Science 167)
  - Required Courses
  - Computer Science 310, 370, 495, and 496
  - Computer Science or Mathematics 320 and 327
- May be elected as Mathematics 320, but must be elected as Computer Science 320 to apply toward the total credit requirement in Computer Science.
- May be elected as Mathematics 327, but must be elected as Computer Science 327 to apply toward the total credit requirement in Computer Science.
  - 12 additional credits of Computer Sciences courses at the 200-level or higher
    - A student will typically take Computer Science 167, 210, 220, and 270 as prerequisites to the explicitly required courses and three additional elective credits at the 200 level or higher

## Required Courses

30 credits (37 credits with neither prior credit for Mathematics 125 nor placement above Computer Science 167)

Item #	Title	Credits
Computer Science 310	Computer Systems Programming	4.0
Computer Science 320	Theory of Computation	3.0
Computer Science 327	Algorithm Design & Analysis	3.0
Computer Science 370	Software Design	4.0
Computer Science 495	Capstone Project I	2.0
Computer Science 496	Capstone Project II	2.0
	12 additional credits of 200 level or higher	12

## Notes on required courses

- Credits for Mathematics 320 and 327 do not count towards the required 30 total credits in Computer Science for the major.

## Other Notes

- - - Mathematics 124 or 125 is a prerequisite to Computer Science 220.
    - No AP credits in Mathematics and Statistics
    - Students with a 4 or 5 on the AP computer science (A) test are considered to have completed the equivalent of Computer Science 167 and receive four credits in computer science.
    - No more than 10 credits earned in domestic or foreign study programs, transfer credits, and/or AP or IB credits may be used to satisfy the course and credit requirements for the major.
    - If considering graduate study, CS majors are encouraged to take additional courses in Mathematics and Statistics, particularly Mathematics 240 or 247
    - No P-D-F after declaration
    - Not independent study may be used

# Senior Requirements

- 495 and 496
- Written and Oral examinations

## Honors

- Students do not apply for admission to candidacy for honors
- Students must submit a proposal for their thesis or project
  - Must be submitted within the first six weeks of the two-semester period in which student is eligible
- Accumulated at least 87 credits
- Completed two semesters of residency at Whitman.
- Cumulative GPA of at least 3.300 on all credits earned at Whitman College
- Major GPA of at least 3.500
- Complete a written thesis or research project prepared exclusively for the satisfaction of this program
- Earn a grade of at least A- on the honors thesis or project and the honors thesis course
- Pass the senior assessment with distinction
- Chair of the department will notify the Registrar of students attaining Honors no later than the beginning of week 12 of the semester.
- An acceptable digital copy of the Honors Thesis must be submitted to Penrose Library no later than Reading Day

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**Total Credits**

**30-37**

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