

Computer Science Graduation Requirements

Walla Walla College: BA – CS

The graduation requirements shown below are subject to change.
For more information consult the WWC Bulletin, available online at

<http://www.wwc.edu/academics/bulletins/>

General Education Component

Language Arts (13 credits)

- ENGL 121,122, 223
- SPCH 101 – Recommended
- Foreign Language

History and Social Science (12 credits)

- History (8)
- Social Science (4)
 - Anthropology
 - Psychology – recommended
 - Sociology

Humanities (12 credits)

- Fine Arts (0-8)
- Literature (0-8)
- Philosophy (0-8)

Religion (16 credits)

- 6 credits of RELB
- 6 credits of course numbers 300 and above.
- One SDA special

Mathematics and Science Component

Mathematics (16 credits)

- Discrete Mathematics (MATH 250)
- Calculus I-III (MATH 181, 281, 282)
- Linear Algebra (MATH 289)
- Statistics (MATH 206 or MATH 315)

Science (12 credits in sequence)

- Physics (PHYS 211–216 or 251-256)

Other science elective must enhance the student's ability to apply the scientific method.

Computer Science Component

Required (31 credits)

- CPTR 141 Intro to Programming
- CPTR 142-3 Data Structures and Algorithms
- CPTR 215 Assembly Language Programming
- CPTR 316 Programming Paradigms
- CPTR 345 Theory of Computation
- CPTR 352 Operating System Design
- CPTR 454 Design and Analysis of Algorithms
- CPTR 495 Colloquium (4 quarters; 1 during the senior year)

Electives (17 credits)

- CPTR 235 System software and programming (or CIS 330)
- CPTR 245 Object-oriented system design
- CPTR 350 Computer Architecture
- CPTR 355 Computer Graphics
- CPTR 415 Introduction to Databases (or CIS 440)
- CPTR 425 Introduction to Networking (or CIS 290, CIS 390, & CIS 450)
- CPTR 435 Software Engineering (or CIS 315)
- CPTR 445 Introduction to Artificial Intelligence
- CPTR 460 Parallel and Distributed Computation
- CPTR 464 Compiler Design
- CPTR 496-498 Seminar

Electives from CIS, ENGR, GRPH and MATH require departmental advisor's approval.

Cognates (3 credits)

- ENGR 354 Digital Logic

Free Electives to bring total credits up to the 192 required for graduation and 60 upper division credits.

The minimum acceptable grade for any required or elective CPTR course is 2.0. A student's overall GPA must not fall below 2.0.