

Systems Software Track

Objectives

The track is designed to prepare students to become programmers who can build

- low-level software that uses or runs inside an operating system,
- system tools for other users (e.g., compilers and assemblers),
- programs that communicate over a computer network or the Internet (e.g., web servers).

All major required courses, all track requirements and track selectives, and their pre-requisites, regardless of department, must be completed with a grade of C or better.

Required Courses (3)

Course	Title
<u>CS 35200</u>	Compilers: Principles and Practice
<u>CS 35400</u>	Operating Systems
<u>CS 42200</u>	Computer Networks

The track requires three electives, chosen from the list below. In addition to elective courses listed, other courses, including project and independent study courses, will be approved as electives, provided the course involves systems programming (as opposed to web page scripting, or other high-level application programming). Faculty strongly recommend that students include a senior project as one of the three electives.

Electives (3)

Course	Title
<u>CS 30700</u>	Software Engineering I
CS 31100 and CS 41100	Competitive Programming 2 and 3 The combination of (CS31100 and CS41100) satisfy one elective
<u>CS 33400</u>	Fundamentals of Computer Graphics
<u>CS 35100</u>	Introduction to Cloud Computing
<u>CS 35300</u>	Principles of Concurrency and Parallelism
<u>CS 38100</u>	Introduction to the Analysis of Algorithms
<u>CS 42600</u>	Computer Security
<u>CS 44800</u>	Introduction to Relational Database Systems
<u>CS 45600</u>	Programming Languages

<u>CS 48900</u>	Embedded Systems
<u>CS 49000-DSO</u>	Distributed Systems
<u>CS 49000-VR</u>	Introduction to VR/AR
Senior Project	Track Chair approval needed

Note: Senior Project must be at least 3 credits and approved by the track chair. (Examples: EPICS 41100/41200 Senior Design, CS 49000, CS 49700 Honors Research Project)

Note: The Software Engineering Senior Project cannot be used as the Systems Software Senior Project unless student obtains approval from BOTH track chairs.

Last Updated: Dec 18, 2023 9:12 AM

Department of Computer Science, 305 N. University Street, West Lafayette, IN 47907

Phone: (765) 494-6010 • Fax: (765) 494-0739

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