Home
Schedule
Office Hours
Assignments
Exams
Lab Machines
Resources
Staff
Style Guideline
FAQ

Academic Integrity
Your Well Being

Textbook
Autolab
Git server
Piazza
Canvas

15-213/18-213: Introduction to Computer Systems (ICS)

Summer 2020

15-213/18-213 Lecture 1: TWRF 12:00-1:20, GHC 4215, Brian Railing

12 units

The ICS course provides a programmer's view of how computer systems execute programs, store information, and communicate. It enables students to become more effective programmers, especially in dealing with issues of performance, portability and robustness. It also serves as a foundation for courses on compilers, networks, operating systems, and computer architecture, where a deeper understanding of systems-level issues is required. Topics covered include: machine-level code and its generation by optimizing compilers, performance evaluation and optimization, computer arithmetic, memory organization and management, networking technology and protocols, and supporting concurrent computation.

Course Syllabus

Prerequisites: 15-122

Getting Help

Piazza	Piazza
Office Hours	GHC 4215
	Office hour specifics can be found here.

Course Materials

Schedule	Lecture schedule, slides, recitation notes, readings, and code
Assignments	Details of assignments, due dates, and policies
Exams	Information about quizzes, exams, and final
Lab Machines	Instructions for using the lab machines
Resources	Additional course resources

Course Information

For details	See the course syllabus for details (below is just a few overview bits).
Lectures	TWRF 12:00-1:20pm Zoom
Textbooks	Randal E. Bryant and David R. O'Hallaron, *Computer Systems: A Programmer's Perspective, Third Edition*, Pearson, 2016
	Brian W. Kernighan and Dennis M. Ritchie, *The C Programming Language, Second Edition*, Prentice Hall, 1988

Credit	12 units
Grading	Composed from total lab performance (52%), total exam performance (30%), active work (18%).
Labs	There are 7 labs, not evenly weighted. See the assignments page for the breakdown.
Exams	There is one midterm exam, in class, closed book (12%). There is a final exam, in class, closed book (18%).
Home	http://www.cs.cmu.edu/~213
Questions	Piazza, office hours, email
Canvas	We are using Canvas for this course.
Course Directory	/afs/cs/academic/class/15213-m20/

Instructors

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Office	GHC 6005
Office Hours	after lectures (not recitation/OH days): TBD *(or by appointment)*
