Summer 2020 Ledition 14-516/18-613 for success

Welcome!

Whether you call this course 15-213, 18-213, 15-513, 14-513, or 18-613, it is a hallmark part of the Carnegie Mellon, shared by more than two decades of graduates of SCS, ECE, and INI, students, bachelor's and master's alike.

This isn't just a course where we teach you *about* computer systems. It is *the* course where you develop the foundational tools to *reason* about computer systems. Although this course covers aspects of architecture, parallel computing, operating systems, concurrency control, and networking, it isn't presented from the perspective of those who develop those resources for others. It is presented for those who need a deep understanding to use them to build software systems, from systems software to high performance, to scalable and resilient applications.

This Quick Start Guide is designed to help you dive right in and get the most out of the course.

How We Support You

You are the reason that we are here. We offer a ton of ways to learn. Some are required parts of the

course. But, others are there to enable you to tailor the course support for your preferences, situation, and needs. The trick is to do what works for you – and to ask us for help any time you even think you might want it. We're here for you!

Pro Tip!

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Lectures

Lectures have been scheduled to accommodate as many people as possible. To get the most out of lecture, try to find as much of a comfortable distraction free environment as you can with as good

Internet connectivity as possible. Turn your camera on if possible. It may seem silly, but being around people is motivational for you – and the instructor. Mute your microphone, so you can "push to talk". Use chat to ask questions of your instructor, but not for conversation with each other. Side conversations are a distraction.

Pro Tip!

Turn your camera on if possible. Mute your microphone, so you can "push to talk". And, use chat to ask questions of your instructor, but not for conversation with each other as side conversations are a distraction.

Can't Make Lecture?

Please do attend lecture, if you can. The interaction will really help you learn better. But, if you can't, watch them as soon as possible after the lecture. The videos can be found on *Canvas* under the *Panopto* tab. The usually are processed and uploaded overnight and are ready for watching in the morning. Please let us know if ever one isn't available within 16 hours.

If you can't attend lecture, try to watch the video during any of our office hours, which are arranged to make them accessible across the globe. This way, just like a real lecture, you can ask the course staff questions. Just pause the lecture and hit us up by Zoom or IM. By watching the video during office hours, you get

Pro Tip!

By watching the video during office hours, you get interactive lecture – on your schedule. And, no one will every be concerned about what time class is supposed to end!

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The same strategy works if you want to rewatch a lecture, too!

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Small Student Groups

Small student groups are a *mandatory* part of the course. We'll facilitate the formation of groups of not more than 5 students who can meet together at the same time at least once each week for at least one hour. Attendance at the one hour meeting we arrange each week is mandatory and attendance and quality of participation is tracked by peer review. The group may choose to meet more often, and while such additional meetings are encouraged, they are not mandatory.

Each group is assigned a TA mentor who will attend each of the mandatory weekly meetings, as well as additional meetings, as requested by your group. The TA isn't intended to be the group leader, but is intended to be a resource for the group, both during group meetings and more generally.

Group meetings are a great time to compare answers to homework (not lab) answers and sample test problems, talk through the lab environment, and do activities to learn about and master tools used for debugging, such as gdb. They are also a great time to talk about lab requirements, and the lab framework and test drivers (but not lab solutions).

Your group and your TA mentor will be in communication throughout the week. Your priorities drive the group meetings, but your TA will periodically offer you materials and activities and suggest and

support timely ways of engaging the course. If you've got specific concerns, you may want to give your TA a heads up. You may want to create a slack channel or email lists and include your TA to stay in communication throughout the week.

Pro Tip!

Your group may want to create slack channels or email lists to stay in communication throughout the week.

Piazza

Piazza is definitely a student favorite! It is a great way to get all sorts of help. Public questions are a great way to discuss old test questions, lab requirements, the starter code, and the test sets with your

peers. Private posts are a great way to get help with your specific solutions or personal concerns privately from the course staff — as well as to request one-on-one appointments. I am often amazed about how fast questions are asked and answered! Just be careful not to discuss your solutions to the labs or homework assignments in public Piazza posts, as an extreme example, you should never post your code!

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Office Hours

We've got more than 20 enthusiastic TAs – and one very excited instructor! We've used your survey data to arrange what we hope are convenient office hours – around the clock. We've posted the Zoom ID and schedule for the TA office hours on Piazza. The instructor's office hours and Zoom information are on his personal Web site. Drop in! We're here to help!

Office hours are a great "convenience store" time to ask questions about homework problems, sample test questions, lab requirements, and development and debugging strategies. They are also a great time to drop by and listen to these things as we discuss them

Pro Tip!

If you need timely help...it often makes sense to ask *immediately* on Piazza rather than waiting for office hours. If that doesn't work out, asking for an appointment is a great strategy.

with your colleagues. If you need timely help, or focused attention to dive into something particularly vexing, it often makes sense to ask *immediately* on Piazza rather than waiting for office hours. And, if that doesn't work out, asking for an appointment is a great strategy

Special Sessions

Other than exams, the Monday time slot is reserved for "special sessions", such as the Linux/CMU-

Computing Boot Camp, and the C Boot Camp, and preview sessions for the exams. It is best if you can attend them. But, if not, try to make sure someone in your study group can attend. And, just like lectures, you can create your very own virtual interactive sessions by watching the videos during office hours and pausing them to ask us your questions.

Pro Tip!

If you can't attend a "Monday Special Session" try to coordinate so someone in your group does. And, just like lectures, you can create your very own interactive virtual sessions by watching the videos during office hours and pausing them to ask us questions in real time!

Your Instructor

Remember, in addition to the team of teaching assistant, the instructor, Greg Kesden, is at your service. He is always happy to help! You are the reason he is here. Check his Web page (https://www.andrew.cmu.edu/~gkesden) for his office hours, Zoom link, email, and IM information. Reach out *anytime!*

Pro Tip!

The instructor...is at your service...You are the reason he is here. Check his Web page for his office hours, Zoom link, email, and IM information. Reach out anytime!

The end. Time for the good stuff! Lab 0!