Welcome to CS 135 (Fall 2019)

Instructors: Byron Weber Becker, Charles Clarke, Mark Giesbrecht, Dan Holtby, Kevin Lanctot, Adrian Reetz

Other course personnel: see website for details

• ISAs (Instructional Support Assistants)
• IAs (Instructional Apprentices)
• ISC (Instructional Support Coordinator)

Web page (main information source):
https://www.student.cs.uwaterloo.ca/~cs135/
Who Am I

• Kevin Lanctot, kevin.lanctot@uwaterloo.ca

• Office: DC 2131 (near the sky walk to MC and M3)

• Things to know about me:
  – I’m a talker not a typer.
  – I only check my email a few times a day.
  – Last name is pronounced long-k toe, i.e. “long toe” with the “k” sound after long.

• Note: lecture material, assignments, and exams are the same across all sections of CS135.
Additional Notes

• Besides the “official” course notes I will create some additional slides.

• They will be merged into the official slides but have “Additional Notes” and a slide number like 1.2 at the bottom.

• They will be available at the course web site
  https://www.student.cs.uwaterloo.ca/~cs135/cc/instructor_materials/

• Until the web site gets finalized, they’ll also be available at
  https://learn.uwaterloo.ca/
  under the Content tab of CS135 by 9 pm the evening before each lecture.
Themes of the course

• Design (the art of creation)

• Abstraction (finding commonality, neglecting details)

• Refinement (revisiting and improving initial ideas)

• Syntax (how to say it), expressiveness (how easy it is to say and understand), and semantics (the meaning of what’s being said)

• Communication (in general)

The approach is: learn how to think about solving problems using a computer.
Themes of the course

• One of our goals is to *develop good programming habits*.

• May seem unimportant for small or simple programs but the complexity will eventually become overwhelming.

• e.g.
  
  https://informationisbeautiful.net/visualizations/million-lines-of-code/
Lectures

Tuesdays and Thursdays 8:30 am – 9:50 am.

Textbook: “How to Design Programs (First Edition)” (HtDP) by Felleisen, Flatt, Findler, Krishnamurthi (find link on web site)

Presentation handouts: available on Web page and as printed coursepack from media.doc (MC 2018)

Participation marks: to encourage active learning
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• Based on “clickers” (purchase at the Bookstore; register in A0) and several multiple-choice questions in each lecture
• One mark for any answer; second mark for correct answer
• We use the best 75% across the entire term to calculate 5% of the final mark.
• No sharing clickers: each clicker must be used by only one student in CS 135.
• No bringing your friend’s clicker to class, of course.
• You must attend the section you’re officially registered in in order to get credit for your participation.
Tutorials

• 16 sections on Fridays (starting tomorrow but attendance for this one is optional)

• Reinforces lectures with additional examples and problem-solving sessions

• Often directly applicable to the upcoming assignment

• Take your laptop and clicker

You should definitely be attending if your assignment marks are below 80%.
Assignments

**Timing**: About 10 assignments, typically due Tuesday at 9:00PM

**Software**: DrRacket v7.3 ([http://racket-lang.org](http://racket-lang.org))

**Computer labs**: MC 3003, 3004, 3005, 3027, 2062, 2063. Available for your use, but no scheduled labs. Most students use their own computers.

**A0**: Due *Tuesday, Sept 10*. Must complete before you are allowed to submit any subsequent assignment

**Submission**: Using MarkUs. More in A0. Submit early and often. No late submissions. No email submissions.
Exams

- Midterms (Sept 30, Nov 4, 7:00-9:00pm)
- Final (date to be determined by the Registrar)

Do not make holiday travel plans before you know the date of all your final exams AND take into account the snow dates.
Marking scheme

• 20% Assignments (roughly weekly)
• 10% Midterm 1
• 15% Midterm 2
• 50% Final exam
• 5% Participation (on best 75% of the clicker questions)

To pass the course:

⇒ Your weighted assignment average must be 50% or greater.
⇒ Your weighted exam average must be 50% or greater.
Getting help

- Tutors have regular office hours. Schedule on web site.
- Instructors also have office hours.
- **Piazza**: An on-line forum where you can ask questions, other students and instructors answer them.
  - Regularly check the official assignment pinned posts
  - Use meaningful subject headings (not just “A3 problem”; what’s your specific problem?)
  - Search previous posts before posting; **Don’t duplicate!**
  - Possible to post privately if necessary
Suggestions for success

Read the CS135 Survival Guide as soon as possible. Find it on the course web site under “Help”.

- Keep up with your assignments. Start them early. **This is key!**
- Go over your assignments and exams; learn from your mistakes.
- Attend lectures; take notes
- Visit office hours as needed; earlier is better.
- Follow our advice on approaches to writing programs (e.g. design recipe, templates).
- Read your mail sent to your UW email account.
Suggestions for success (cont.)

• Keep up with the readings (keep ahead if possible).

• Integrate exam study into your weekly routine.

• Go beyond the minimum required (e.g. do extra exercises).

• Maintain a “big picture” perspective: look beyond the immediate task or topic.
Academic integrity

• You must do your own work.

• Policy 71 - Student Discipline: plagiarism, sharing assignments, etc.

• Running out of time? It is better to hand in a partial assignment or nothing than to hand in someone else’s work.

• Be careful about posting code to Piazza. If it looks like it could have come from your assignment, don’t post it (publicly).
Academic Integrity

• Do your own work. ⇒ Do not copy another student’s work.
  – You *may talk* to other people about how to do an assignment, but *do not write or record anything*.
  – You *cannot view or share* another person’s code.

• Standard penalty for first offence is 0 on the assignment and -5% on the final grade.

• Suspension/expulsion for 2nd offence *in any course*.

• We have software that detects similar code.
Intellectual property

The teaching material used is CS 135 are the property of its authors. This includes:

• Lecture slides and instructor written notes
• Assignment specifications and solutions
• Tutorial slides and notes
• Examinations and solutions

Sharing this material without the IP owner’s permission is a violation of IP rights.
Goals of this module

You should understand how the course is organized [1–7].

You should be familiar with the course resources available to you [9].

You should know what you need to do to earn the mark you desire [8,10,11].

You should know how to avoid plagiarism [12].