CSCI 136: Data Structures and Advanced Programming
Lecture 1
Welcome
Instructor: Kelly Shaw
Williams

Topics
What this course is about
What to expect in this course
Some things to work on over the weekend

Every week:
1. Lab due Tuesday at 10pm.
2. Quiz opens Friday at noon, closes Saturday by noon.
   30 minutes to complete it once you start.

Your to-dos
1. Quiz (see GLOW), due Saturday 9/10.
2. Lab 0, due Tuesday 9/13.
   Grade scale:
   Not graded. But please do it anyway.
Please stop me to ask questions!

Any worker can stop the line!

Stop me if you feel like something is missing!

About me
A study on crash factors in intersection-related accidents from the US National Highway Traffic Safety Association shows that turning left is one of the leading "critical pre-crash events" …

About 61 percent of crashes that occur while turning or crossing an intersection involve left turns, as opposed to just 3.1 percent involving right turns.

source: cnn.com
Demo

DALL•E

A tasteful watercolor of Pikachu snowboarding in Massachusetts

StyleGAN2
You already know how to program.

This course is about: “good” programs
Outline

1. Course preview
2. Course bureaucracy
3. Quiz 1 due Saturday
4. Lab 0 due Tuesday

Administrivia

- Class roster: Who’s here?
  - And who’s trying to get in?
- “Handout”: Class syllabus
- Lecture location: Wachenheim 114
- Lab:
  - Wed 1-2:30pm (sec 3),
  - Wed 2:30-4pm (sec 4),
  - Thur 1-2:30pm (sec 5)
  - Thur 2:30-4pm (sec 6)
  (please go to your assigned lab!)
- Lab locations: TCL 217a
Administrivia

• Lab entry code: 3-9-27-81 (quick, memorize this!)
• Course Webpage: https://www.cs.williams.edu/~cs136

Course webpage!
https://www.cs.williams.edu/~cs136

Syllabus

How to contact us

<table>
<thead>
<tr>
<th>Section 01</th>
<th>Instructor</th>
<th>Office</th>
<th>Email</th>
<th>Office Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Prof. Kelly Shaw</td>
<td>Thompson Chemistry 308</td>
<td><a href="mailto:ks10@cs.williams.edu">ks10@cs.williams.edu</a></td>
<td>Mon 3:15-4:45, Thurs 4:15-5:15, by appt.</td>
</tr>
<tr>
<td>Section 02</td>
<td>Prof. Daniel Barowy</td>
<td>Thompson Physics 306</td>
<td><a href="mailto:dbarowy@cs.williams.edu">dbarowy@cs.williams.edu</a></td>
<td>Tue 1:00-2:30pm, Wed 4:00-5:00pm, or by appointment</td>
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<table>
<thead>
<tr>
<th>Lab Instructor</th>
<th>Office</th>
<th>Email</th>
<th>Lectures 1</th>
<th>Labs 1</th>
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</thead>
<tbody>
<tr>
<td>Lida Doret</td>
<td>Thompson Chemistry 205</td>
<td><a href="mailto:ldp2@williams.edu">ldp2@williams.edu</a></td>
<td>MWF 10:00-10:50am (Section 01; Shaw) in Wachenheim 114</td>
<td>MWF 9:00-9:50am (Section 02; Barowy) in Wachenheim 114</td>
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<td></td>
<td></td>
<td></td>
<td>W 1:00-2:30pm (Section 03; Shaw) in TCL 217</td>
<td>W 2:30-4:00pm (Section 04; Shaw) in TCL 217</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Th 1:00-2:30pm (Section 05; Barowy) in TCL 217</td>
<td>Th 2:30-4:00pm (Section 06; Barowy) in TCL 217</td>
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<td></td>
<td>Labs are due weekly on Tuesday before 10pm</td>
<td>Web Page: <a href="https://www.cs.williams.edu/~cs136">https://www.cs.williams.edu/~cs136</a></td>
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**Course textbook**

* Java Structures

Data Structures in Java for the Principled Programmer

The 7th Edition

Dale Myers

Duane A. Bailey

Williams College September 2007

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**Tips for success**

- Come to lab and lecture on time
- Read assigned material before class and lab
- Bring paper/pencil to lab for brain-storming, …
- Come to lab prepared
- Bring design docs for program
- 1 Prof + 1 TA == help for you: take advantage of this
- Ask questions!
- Your work should be your own. Unsure? Ask!
- Participate

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**Weekly activities**

- Reading the text: 12-15 pages, on average, per lecture
- Preparing for weekly quizzes
- Preparing for the weekly programming labs
- Completing the weekly labs

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**Yes, quizzes**

- One quiz per week.
- The quiz opens on Friday at noon and is due on Saturday before noon.
- You have 30 minutes to complete it.
- Open book, open notes, but no websites.
- Prepare for quizzes by doing the reading.
- No make-up quizzes.
Lab Assignments

- Assigned: Monday
- Lab Meeting: Wednesday or Thursday
- Pre-lab: sometimes work due before lab meeting
- Due: Tuesday no later than 10pm

Assignments submitted using GitLab

Late Work

- You are expected to turn in all assignments in a timely manner receive full credit. Please contact us ahead of time to discuss the matter if you foresee issues that prevent timely submission. Without prior arrangement, late assignments will be penalized at a rate of 20% per day.

Resubmissions

- No late assignments allowed in this course.
- 2 resubmissions allowed.
- For all assignments except last lab and final exam.
  - Yes, you may resubmit your midterm.
- Gain up to 50% of points back.
- You cannot resubmit an unsubmitted assignment!
- Due by the end of the semester.
- See syllabus for instructions.
- Use them wisely.
Accounts and Passwords

• Be sure you know how to login to your CS account.
• Lab 0 will make it clear whether you know how to do this or not.
• If you have trouble logging in, email csaccounts@williams.edu for a password reset.
• Remember that the csaccounts is read by real humans with lives (Lida and Kelsey) who work M-F 9-5. If you email them on Tuesday at 9pm… you’re out of luck.

Honor Code

We take this seriously.

It is much better to reach out to me, Dan, or Lida when you’re having difficulties than it is to copy someone else’s work.

It is much better to get partial credit than it is to copy someone else’s work.

There is never a penalty for asking for help.

We know when you copy work.

The consequences are severe.

Most problems can be avoided with planning.

Homework for Friday/Saturday

Read the syllabus.

There will be a GLOW quiz on the syllabus.
Homework for Tuesday

Recap & Next Week

Today:

• What this course is about.
• Course policy.

Next class:

• Java!
• Program design: Nim
• Our first data structure