On your way in...

Pick-up:
1. Course Syllabus print-out
2. Homework 00 print-out

(There will ~always be something to grab on your way in!)
Welcome to CS 134!

Introduction to Computer Science

Iris Howley
She/Her/Hers

Spring 2019
Why are you interested in computer science?

*Take 2 minutes to write down all the reasons you enrolled in this course*
Take 2 more minutes and...
....introduce yourself to your neighbors
....find 2 more reasons, different from your own, for taking this course.
What is computer science?

• Computer programming is not computer science!
  ▪ Computer programming is a tool for computer scientists to communicate

• Computer scientists don’t just solve problems for a PC/Mac or in Python, but more abstract problems
  ▪ What is a microwave?
  ▪ It has an on/off button, a door, a plug...a box that cooks things with a door
  ▪ This is abstraction and it’s one of computer scientist’s greatest tools
Why I’m a computer scientist...

• https://www.lester-lee.com/wcma-viz/
1972 OLYMPIC POSTER

RONALD B. KITAJ, 1970

Medium
color silkscreen on paper

Dimensions
34.09 x 25.16 in. (86.6 x 63.9 cm)

Description
Description not available.
It’s almost lunchtime...

• ...let’s make a sandwich

• What are the steps to making a peanut butter & jelly sandwich?

• (What’s the first step?)
Why did we just do that?
Who We Are

Iris Howley
iris@cs.williams.edu
Co-instructor

Duane Bailey
bailey@cs.williams.edu
Co-instructor

Carl Rustad
clr2@williams.edu
Lab Instructor
Who We Are
TA Edition

Noah Andrew
Chris Anton
Will Burford
Jimmy DeLano
Jacob Justh
Julia Kawano

Aidan Lloyd-Tucker
Grace Mazzarella
Nevyn Neal
Nathan Thimothe
Alex Trevithick
Linda Zeng
Important Resources
The Course Website

“No, we don’t use Glow”


• Now with:
  - The syllabus!
  - Office hours!
  - TA Hours!
  - The textbook!
  - Lecture notes!
  - Homewrok!
  - The labs!
  - Contact info!
The Textbook


- We use this textbook the first half of the course
- Chapters are assigned on the course schedule/syllabus
Syllabus
# Schedule

<table>
<thead>
<tr>
<th>Week of</th>
<th>Monday</th>
<th>LAB</th>
<th>Wednesday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 1</td>
<td>—</td>
<td>I. PYTHON AND GIT</td>
<td>—</td>
<td>1. Hello, world! (TP1)</td>
</tr>
<tr>
<td>Feb. 4</td>
<td>2. Expressions (TP2)</td>
<td>II. PROCEDURE</td>
<td>3. Functions (TP3)</td>
<td>4. Conditions (TP5-6)</td>
</tr>
<tr>
<td>Feb. 11</td>
<td>5. Abstraction (TP4)</td>
<td>III. TOOLBOX BUILDING</td>
<td>6. Iteration (TP7)</td>
<td>Winter Carnival</td>
</tr>
<tr>
<td>Feb. 18</td>
<td>7. Strings (TP8-9)</td>
<td>IV. DEBUGGING</td>
<td>8. Interpretation</td>
<td>9. Lists, Tuples (TP10,12)</td>
</tr>
<tr>
<td>Apr. 22</td>
<td>27. Images</td>
<td>IX. TBD</td>
<td>31. Java II.</td>
<td>29. Object Persistence</td>
</tr>
<tr>
<td>Apr. 29</td>
<td>30. Java I.</td>
<td>X. JAVA</td>
<td>34. Slack</td>
<td>32. Java III.</td>
</tr>
</tbody>
</table>
Workload

• Readings from textbook, as on the schedule, *every class*
• Weekly written homeworks
• Weekly lab assignments
  ▪ Monday labs → Thursday @ noon | Tuesday labs → Friday @ noon

Iris & Duane’s office hours
TA office hours

• Midterm exam on Tuesday, March 5 (evening)
• Scheduled Final exam
Office Hours

• TA Office Hours
  ▪ Sun. 4-10pm, Mon-Thu. 7-10pm, + TBD (TCL 217a)

• Iris Office Hours
  ▪ TBD (TCL 308)

• Duane Office Hours
  ▪ TBD (TPL 306)

Check the website for updated office hours!
http://www.cs.williams.edu/~cs134/
Grades

- Homeworks: 15%
- Labs: 35%
- Midterm: 25%
- Final: 25%
- Participation: +/- 5%
Students Who Need Accommodations

• If formal accommodations need to be made to meet your specific learning or physical abilities, please contact one of us as soon as possible to discuss appropriate accommodations. Please also contact the Director of Accessible Education, Dr. G. L. Wallace (413-597-4672) or the Dean’s office (413-597-4171). We will work together to ensure this class is as accessible and inclusive as possible.

• Also, students experiencing mental or physical health challenges that are significantly affecting their academic work are encouraged to contact one of us or to speak with a dean. The deans can be reached at 413-597-4171.
Honor Code
Departmental Honor Code & Computer Usage Policy

• [https://csci.williams.edu/the-cs-honor-code-and-computer-usage-policy/](https://csci.williams.edu/the-cs-honor-code-and-computer-usage-policy/)

• People learn best by doing!
Honor Code Guideline

• “Any work that is not your own is considered a violation of the Honor Code.”

• “Help locating errors and interpreting error messages are allowed, but a student may only receive help in correcting errors of syntax; help in correcting errors of logic is strictly forbidden.”

• “In general, if you are taking photos of someone else’s screen, looking at someone else’s screen, or telling someone else what to type, it is likely your/their work is no longer the work of an individual student.”
Honor Code

- Resources to consult when completing assignments:
  - The Textbook
  - Lecture Notes
  - Resources listed on the course website
  - Python3 documentation
  - Office Hours, TAs, Instructors
Housekeeping
Homework 0 Due Monday In-class

• Anonymous IDs on the back of your syllabus hand-outs!

• REMEMBER THIS NUMBER
Before your lab on Monday/Tuesday...

• You must obtain your CS account name + password from Mary Bailey, our Systems Tech (mary@cs.williams.edu)

• She’s available:
  - Mon, Feb 4: 10 - 11:30a, 3 - 4:30p
  - Tues, Feb 5: 10:30 - 11:30a, 3 - 4:30p

• Her office is in TCL312, it’s frequently behind a locked door
  - The combination is: #6-4-6-4-0-4
Accessing the Lab

• Labs are in TCL 217A (behind the stairwell)

• This door is also always locked!
  ▪ The combination is 64-64-04
Laptop Policy

Lectures

• There is no official laptop/computer policy for lectures, but...

• Research literature finds that multi-tasking laptop use in the classroom results in less learning / lower test performance [1]
• And that it also results in less learning / test performance for those in direct view of another student’s multi-tasking laptop use [1]


More literature: https://cs.brown.edu/courses/cs019/2018/laptop-policy.html#%28part._rsch%29
"WITH GREAT POWER COMES GREAT RESPONSIBILITY."

– Uncle Ben

Please think twice before multi-tasking on your laptop during lecture!

- Iris Howley
Computer Science Colloquium Today!
(and pretty much every Friday)

• 2:35pm in this room (Wege Auditorium)

• Senior Thesis Proposals
Hello world