CSc 120
Introduction to Computer Programming II

00: Basic info
Welcome to CSc 120

• Second programming class
  – Prerequisite: CSc 110 (or some programming experience)
  – looks at
    o more complex programs and programming problems
    o how data are represented and manipulated
    o how to think about and understand program behavior
  – Start building the toolbox of a computer scientist

• Assumes you have at least a little programming experience
  – can write small programs; execute, test, and debug them
  – if not: take CSc 110
Basic info about this class

• Programming language: **Python**
  – we will use Python 3
  – first few lectures: review basics

• Development environment: **Idle**
  – comes with Python

• If you don’t know Python:
  – need to pick up the basics quickly
    o **Python review/help in tutoring center, Thursday 2-3 pm GS 914—for CS 120 students**
Instructional staff

- Instructor: Janalee O'Bagy, Ph.D.
  - Office: Gould-Simpson room 854
  - Email: jobagy@email.arizona.edu
  - Office hours: MW 2:00 – 3:30pm
    or if my door is open
    or by appointment (send email; put CS 120 in Subject:)
Instructional staff

• Section Leaders
  Meet them now!!!

• Discussion sections:
  – 50 mins, Mon or Tue; led by Section Leaders
  – see class website for details
Meet your neighbor (2 minutes)

• Find out where they are from

• Together, decide on answers to these questions
  – What year was Python created?
  – How many websites are there today and how many were there 20 years ago?
  – The Python you’ve been using is written in C. How many lines of C code do you think it takes to implement Python?
Course communication

• Piazza
  – http://www.piazza.com
  – Sign up if you haven't already!
  – Questions are posted and answered here
  – Class communication takes place here

• Class Website
  – Important links: assignments, email contacts, Python info, etc.
  – https://www2.cs.arizona.edu/classes/cs120/spring18/
  – See Piazza for updated office hours
Textbook

• No required text
  – you will be given the information you need
  – plenty of additional on-line resources available
  – https://docs.python.org/3

• Optional text:

  *Problem Solving with Algorithms and Data Structures using Python (2nd ed.)*, by Bradley Miller and David Ranum.
Assignments

• Typically, once a week
  – given out on Wed
    o several small problems:
      • auto-grader
      • due Saturday 7pm
    o one or two larger problems:
      • due following Thursday 7pm
  – graded feedback back to you by following Monday

• ~ 11-13 assignments over the entire semester
  – worst score is dropped
  – do them all!
Assignments

• Due at time specified
  – no late submissions accepted
  – in almost all cases: no extensions

➢ plan ahead
  o plan around assignments etc. for other classes

➢ start early
  o procrastination is the surest way to sabotage your performance in this class
Assignments

• Grading:
  – coding style
    o code structure, comments, etc.
  – functionality
    o tested using a computer program
    o you need to follow directions \textit{exactly}
      • file names
      • function names
      • input/output format
      • ... anything else specified...

Taking liberties with assignment specs is \textit{not} the right way to show your creativity!
Exams

• Two midterms
  – approx. six weeks apart
    o see syllabus, website for dates
    o count for 30% of final grade (2 \( \times \) 15%)

• Occasional quizzes

• Final exam:
  – Friday, May 4^{th}, 2017 at 10:30am
    o counts for 20% of final grade
Midterms

• Start at the beginning of lecture period
• About 50 mins each
• No make-up exams except for unforeseeable emergencies
## Grading policy

### Components of your final grade:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming assignments (drop one) and in-class activities (including quizzes)</td>
<td>45%</td>
</tr>
<tr>
<td>Weekly section participation</td>
<td>5%</td>
</tr>
<tr>
<td>Midterms</td>
<td>30%</td>
</tr>
<tr>
<td>Final exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

### Regrade request deadlines:
- Programs: within two weeks of getting grade back
- Within one week of getting grade back
Grading policy

Grade boundaries:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90% and above</td>
<td>A</td>
</tr>
<tr>
<td>80% and above, but below 90%</td>
<td>B</td>
</tr>
<tr>
<td>70% and above, but below 80%</td>
<td>C</td>
</tr>
<tr>
<td>60% and above, but below 70%</td>
<td>D</td>
</tr>
<tr>
<td>Below 65%</td>
<td>E</td>
</tr>
</tbody>
</table>

(I may lower the cutoffs but will not raise them.)
Behavior and conduct

• treat each other with respect and courtesy
• don't be disruptive

• these behaviors will not be tolerated in class:
  – phone conversations, texting
  – reading newspapers or magazines
  – games, facebook, other social media
  – extended conversations (unless instructed)

please leave the room if you have to do any of these activities; come back when done.
Academic integrity

• Any work submitted for credit must be your own work
  – OK:
    o general discussions of how to approach a problem
  – NOT OK:
    o discussing the specifics of the code for an assignment
    o partnering with someone else on an assignment
    o soliciting help on online forums (e.g., stackoverflow)
Academic integrity

• Helping someone else cheat is just as bad as cheating yourself:
  – don't show your code to anyone else
  – don't share details of code ahead of a submission deadline
  – don't post your assignment code publicly
    o this includes Piazza
    o see me or the SLs to discuss your code

• See syllabus for detailed list of do's and don’t's
How to succeed in this class

• Understand the material
  – if you don’t: *ask questions!*
  – office hours & GS 228 lab hours

• Attend lecture and sections
  – *participate!*

• Do the programming assignments
  – start early *(no late days)*
  – follow directions *exactly*
  – test your code thoroughly
  – *don’t forget to submit your code!*

Be engaged!
The muddiest point

• What was the thing that you understood the least?
  – In general, specific to the lecture
  – Today, specific to your prereq class (110, ECE 175, etc.)

Write it down!
First section (Tuesday, Jan. 16th)

• Required attendance
  – Students with Monday section may attend a Tuesday section
  – Survey on Piazza
  – Due Friday, Jan 12th at 7:00pm
  – It will take 5 minutes

Part of your grade!