Course Introduction

Python for All!

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Objectives

Welcome to CS 101!

- Meet your instructor and your TAs.
- Find the syllabus and getting started guide on the main web page.
- Open the lecture content on PrairieLearn and write some simple Python programs.
  - Print a greeting
  - Store some text into a variable
  - Store a number into a variable
- Start the post-class activity and get your first points.

Meet the Instructor!

- Name: Mattox Beckman
- History:
  - PhD, Fall 2003, University of Illinois at Urbana-Champaign
  - Lecturer 2003–2015 Illinois Institute of Technology
- Research Areas: CS Education, Programming Languages, Mathematical Foundations of Computer Science
- Professional Interests: Computer Science Education; Functional Programming; Mastery Learning
- Personal Interests: Irish Music; Philosophy; Evolution; Meditation; Kerbal Space Program; Home-brewing; Factorio … and many many more …

Meet the Staff!

- The TAs will be your main contact in this course. Let's meet some of them!

Meet You!

- Take 3 minutes to fill out this google form:
  - `https://forms.gle/cEQoxZpNebPSSybx6`

Find the Things!

- The course web site is at `https://courses.engr.illinois.edu/cs101`
  - This link will redirect to a hosted location like `github` or `netlify`.
  - Things to see: the syllabus, the table of contents, the course schedule…
- Campuswire: (See syllabus)
- Prairielearn: `https://prairielearn.org`

Grading: Homework-like things

- Every lecture has attached to is a small assignment or lesson.
  - Part of it is done in class via a Jupyter Notebook.
  - Part of it is in a traditional Prairielearn question.
  - Collectively these are worth 5%.
- Once a week there is a homework set.
  - A bit larger, designed to help you program more interesting examples.
  - Collectively worth 35%
- You have one week. These can be extended though.

Grading: Labs

- There are labs sections
  - Two hours each week
  - In person, emphasizing group activities.
  - Most are in the CIF: self service has your details, and the course web page will by the end of the week.
  - Collectively worth 25%.
- There is/will be a form to request a makeup if you miss your lab.

Grading: Quizzes and Final Exam

- There are six quizzes.
  - All in the Computer Based Testing Facility (CBTF).
  - Collectively worth 35%
- Email me if you are going to miss one.
- Final exam is optional!
  - Each quiz will have a "second chance" version.
  - You can take as few or many as you want.
  - if q is the quiz, s is the second chance, your new quiz score q' will be:

$$q' = \begin{cases} s & \text{if } s > q \\ \frac{q+s}{2} & \text{otherwise} \end{cases}$$

Generative AI

- Your goal in this class is not to get points!
  - Unfortunately, that's what we can measure.
- You can use ChatGPT and friends, but:
  - You must cite it in your code if you use it.
  - You must be sure to check its work.
  - You must be sure to learn from its answers.

"If ChatGPT can do your job, ChatGPT will take your job."

Questions so far?

- Questions so far?
- Let's do some coding!