COMPUTER SCIENCE

UNIT I WEEK 1, TUESDAY APR 17TH + THURSDAY APR 19TH

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THIS WEEK IN CS AND STEM

- Imported from Antarctica

  - https://futurism.com/vegetables-antarctica-space-mars/

- Maybe food competitions just aren't a good idea.

  - https://futurism.com/hottest-chili-peppers-headache/ S

- Biometric Authentication pulling ahead

  - https://futurism.com/passwords-biometric-security-keys/

FINAL PROJECTS

- 3 different project descriptions, you need to:
  - Complete the coding, using all of the skills we've learned
  - Write user documentation
  - Write a report
  - Give a 10 minute presentation showcasing your work (last day of classes, June 5th)

- Due dates:
  - ~~Pick your project (1 of the 3 given): April 3rd — tell me in person or in email!~~
  - **Update your github account regularly as you add sources, make changes, and code.**
  - Submit Report, code, supporting documents: June 4th at midnight
  - Give presentation: June 5th in class

STUDENT-LED LESSONS

- The last 2-3 classes will be based on what YOU want to learn about relating to Computer Science.

- Aim for 1/3 -½ class per student, maximum of 2 topics per student.

- Send your topics to me by May 15th . Looking at May 24, 29 for topic discussions.

WHAT IS COMPUTER SCIENCE?

- Is there one or many categories? Is there a singular definition?

BREADTH OF COMPUTER SCIENCE

- So far we've discussed a lot about computer science and tech. We've programmed, learned some of the consequences and codes of conduct in computer science and tech, as well as a little history. But is computer science a stand alone discipline?

CAREERS IN COMPUTER SCIENCE

- From all the fields we've mentioned within and using computer science, there are a number of career options that fall within computer science.

- Some of the most common ones include:

    - Software developer

    - IT specialist

    - IT consultant

    - Data/applications analyst

THERE'S MORE THAN ONE WAY TO TRAIN!

- Different universities have different opportunities for students interested in computer science. Some institutions support mixed majors, undergrad research or work-place placements, and substantial courses in subcategories of computer science.

- Regardless of what program you choose, always look for research and work placement opportunities in your field of interest!!! (Co-ops, internal posting, etc – also don't be afraid to talk to your professors once you've built repour to ask them about working in their labs or on their projects).

RESEARCH IN COMPUTER SCIENCE

- From what you know, what do you think are the major areas of research in computer science?

SPECIFIC AREAS OF INTEREST

- Robotics

- Digital Humanities

- What do these require? What skills have we already learned that could play a role in these fields?

WHAT INTERESTS YOU?

- We're not deciding your destiny here – but even cursory interests can be rewarding.

- What are you thinking about pursuing? Does computer science play into it? If not directly, could it play in indirectly?

REFERENCES

- https://umaine.edu/cs/what-is-cs/

- https://www2.eecs.berkeley.edu/Research/Areas/CS/

- https://www.prospects.ac.uk/careers-advice/what-can-i-do-with-my-degree/computer-science

- http://careers.yorku.ca/my-degree/computer-science/

- http://web.cs.toronto.edu/research/areas.htm

- https://www.ri.cmu.edu/research/

- http://shc.stanford.edu/digital-humanities

- http://digitalhumanities.berkeley.edu/projects

- http://wdw.utoronto.ca/index.php/programs/digital_humanities