

Introduction to Computer Science I

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Keep in Touch

- ▶ Email
- Office hours
- ► Course website (http: //cs.allegheny.edu/sites/jjumadinova/teaching/111)
- ► Teaching assistants (http://www.cs.allegheny.edu/teaching/teachingassistants/)
- ► Sakai (https://sakai.allegheny.edu/)
- ► Slack channel (more on this later) (https://cs111s2018.slack.com/)
- ► Bitbucket (more on this later) (https://github.org/)



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- ► Algorithms
- ► Software
- Programming Languages Java
- ► Applications of computer science

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- ► Applications of computer science
 - ► DNA manipulation
 - Graphics
 - Robotics
 - Music



Computer Science Involves More than Programming!

- ► People
- Teams
- ► Writing
- Speaking



► Class Activities



- Class Activities
- ► Laboratory Sessions



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- ► Practical Sessions (Fridays)

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- ► Group Projects
- ► Fun Presentations
- ► Real-world Software Tools
- ► New Friends and Colleagues

A quote from a famous computer scientist: "Computer Science is no more about computers than astronomy is about telescopes" Edsger Dijkstra (1930–2002)





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Computers play a key role

What field has ...?

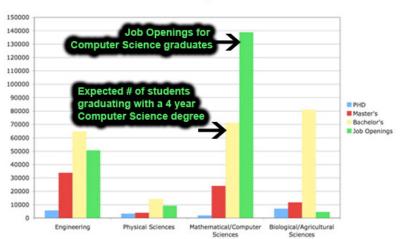
- ► The best-rated job, and 5 of the top 10 highest paid, highest growth jobs?
- ► Shown strong job growth?
- ► A severe shortage in college graduates?

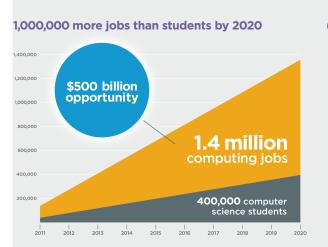
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Computer Science!

Annual Degrees (2004) and Average Job Openings in Broad S&E Fields (2004-2014)

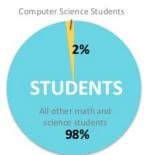


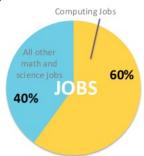


Computer science
is a top paying
college degree
and computer
programming
jobs are growing
at 2X the
national average.



The Job/Student Gap

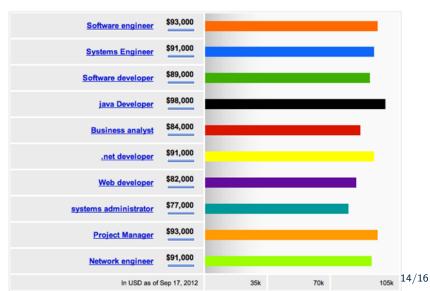








COMPUTER SCIENCE Department





Applications of Computer Science

- ► No Lab this week
- ► Practical session on Friday

