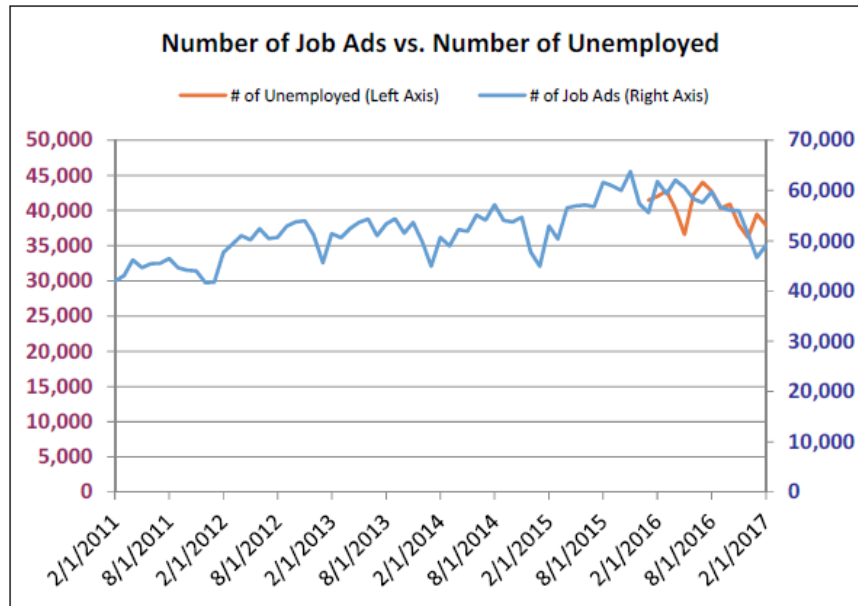


# Major in Web Design and Engineering

# Major in Web Design and Engineering

- Students may choose to major in Web Design and Engineering.
- They take courses in the following categories:
  - Web Design and Engineering
  - Arts, Humanities and Social Sciences
  - Mathematics and Natural Sciences
  - Educational Enrichment Electives

# Recent Job Ads for San Jose, Sunnyvale, Santa Clara, MSA – Feb 2017



## Employers with Most Job Ads

Apple Inc. - 2040  
Stanford University - 1386  
Amazon - 1144  
Cisco - 1043  
Google - 980  
Robert Half International - 853  
Stanford Healthcare - 679  
Intel - 565  
Randstad - 446  
VMware - 388

## Occupations with Most Job Ads

Software Developers, Applications - 5306  
Marketing Managers - 1580  
Web Developers - 1532  
Registered Nurses - 1474  
Network and Computer Systems Administrators - 1279  
Software Developers, Systems Software - 1127  
Information Technology Project Managers - 976  
Software Quality Assurance Engineers and Testers - 959  
Computer Systems Analysts - 914  
Industrial Engineers - 876

**Computing areas**

# Best Jobs in America

## CNN Money: Best Jobs in Fast-Growth Fields 2016:

1. **Mobile app developer**
2. Risk management director
3. Landman
4. Product analyst
5. Info insurance analyst
6. QA coordinator
7. Clinical applications specialist
8. Hospital administrator
9. **Database analyst**
10. Director, finance & administration

Two out of top 10  
are in Computing!



Mobile app developer:  
Median pay: \$97,000  
Top pay: \$133,000  
10-year job growth: 19%



Database analyst  
Median pay: \$70,100  
Top pay: \$101,000  
10-year job growth: 11%

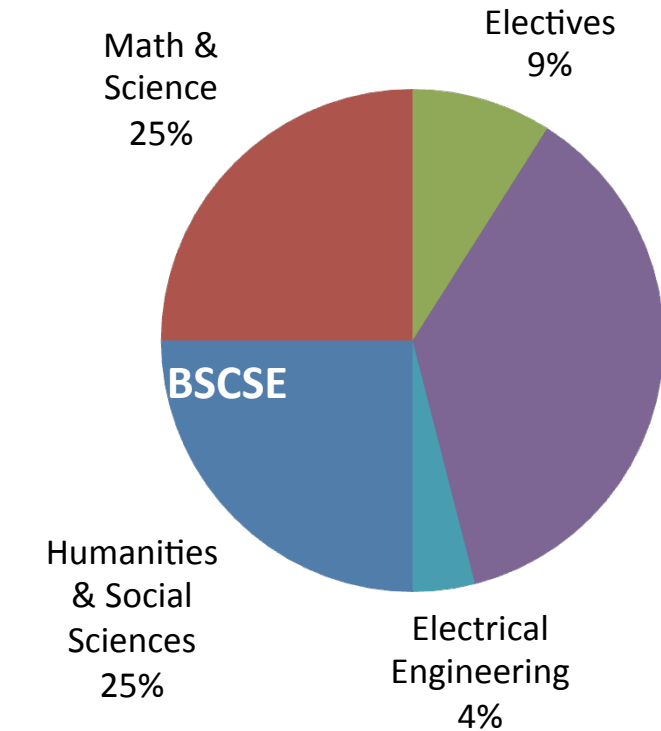


# Programs

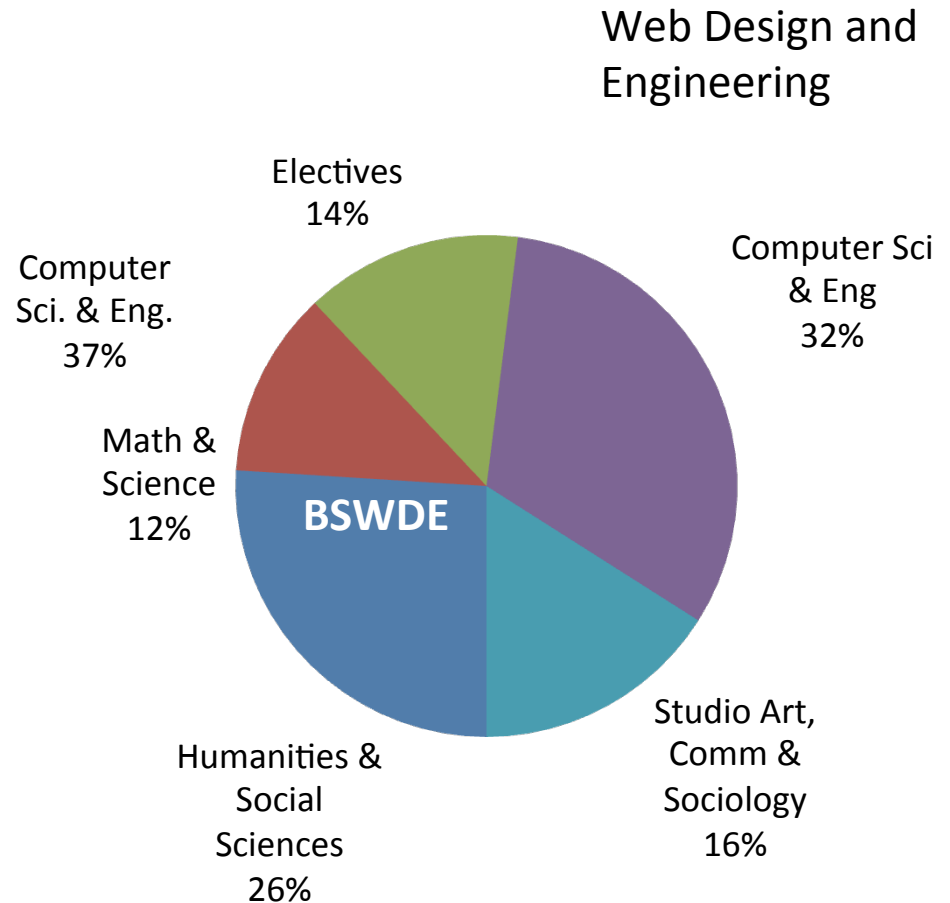
- Four-year B.S. degree programs
  - Web Design and Engineering (31)
  - Options for study abroad or co-op
  - Major courses start in freshman/sophomore year
  - Students with AP units could complete in less than 4 years
- Five-year combined B.S. – M.S. program
- Strong practical flavor
  - Extensive lab-based courses
  - Senior design capstone projects



# Our Two Programs



Computer Science and Engineering



Web Design and Engineering

# CSE Web Technologies Program

Students of Web technologies are required to take courses in

- **Web programming**
  - HTML, CSS, JavaScript, JQuery, PHP, MySQL, XML technologies
- **Web infrastructure**
  - Web protocols
- **Web Usability**
  - Designing effective and accessible web sites and web applications
- **Advanced Web Programming**
  - Ruby on Rails
  - Web Security

# Capstone Design Project

- Year-Long Project in Senior Year
- Interdisciplinary Teams
- Formal Design Reviews
- Lectures on
  - Entrepreneurship
  - Intellectual property & patent application
  - Ethical and societal considerations
- Senior Design Conference





# Computing for Social Benefit

## Student Organizations



### Mobile Computing for Social Benefit

#### Active student organizations

- ACM, IEEE, and SWE chapters.
- Free ACM membership to new students.
- Grace Hopper conferences.

Source: S. Figueira



# Recent Graduate School Admissions for Our Grads

- Carnegie Mellon
- Harvard
- Johns Hopkins
- U of Michigan
- Naval Post Graduate School
- Rensselaer
- Stanford
- UC Berkeley, Irvine, San Diego, Santa Cruz
- Santa Clara U
- U of Colorado, Boulder
- U North Carolina, Chapel Hill
- U of Pennsylvania
- Rice U
- U of Texas, Austin
- U of Washington
- Georgia Tech
- Virginia Tech

