CS Curriculum Feedback
Year 2

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Introduction

- ChangeCS is a committee formed last year by members of UPE and ACM
- Meet regularly and collect student feedback on the CS Curriculum
- Our Mission: To drive constant improvement in UCLA’s CS program.
Demographics of people surveyed

297 responses

Majors

- Computer Science: 70.4%
- Computer Science & Engineering: 20.2%
- Linguistics and Computer Science: 13.5%
- Math and Computation: 8.4%
- Computational and Systems Biology: 0.8%
- Electrical Engineering: 0.4%
- I did undergrad and master’s in CS: 0.4%
- Undeclared Engineering (Soon to b...: 0.4%

Graduation Year

- 2020: 29.3%
- 2019: 27.3%
- 2018: 17.5%
- 2017: 13.5%
- 2016: 8.4%
- 2015: 2.7%
- 2014 or earlier: 0.4%
Current Classes
<table>
<thead>
<tr>
<th><strong>58% of students think CS 35L needs revamping</strong></th>
<th><strong>54% of students think CS 35L was useful for the future</strong></th>
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</thead>
<tbody>
<tr>
<td>Too many topics</td>
<td>“cover much fewer topics and spend more time on each”</td>
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<tr>
<td>No formal lecture</td>
<td>“Add a lecture component to this class. The steep learning curve for this class makes it hard to quickly pick up on the new topics each week.”</td>
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</table>
38% of students think CS 111 needs revamping

Lecture does not prepare students for projects

Too much material. Potentially split into two courses.

“Synchronize the labs and lectures and actually teach the lab material in the lectures”

“too much being taught for the short 10 weeks that the course is held in”

“split into two courses. Simply too much information to absorb”
25% of students think CS 152 needs revamping

Verilog not applicable for Computer Science students

“Remove Verilog and add Arduino Python programming”

“Technologies learned are not very applicable”
CS 143 - Database Systems

20% of students think CS 143 needs revamping

Ignores modern common technologies

“Cover at least basics of NoSQL and/or Graph DBs”

“Introduce non-relational databases (e.g. MongoDB, Cassandra) and a comparison between relational and non-relational databases.”

“New content for CS 143 (remove PHP and use Python)”
Future Classes
Future Classes

- Distributed Systems
- Human-Computer Interaction
- Computer Vision
- Broader Course Selection
## Broader Course Selection

<table>
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<tr>
<th>Interdisciplinary Course</th>
<th>“interdisciplinary courses, so allowing students to take more classes that involve CS but applied to different areas”</th>
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| Fiat Lux for CS | “2 unit seminar style classes”
| Broader variety of course offerings, even if they're not 4 unit upper division credit. For example, UC Berkeley has DeCal courses (student led, 1-3 units) in current topics like blockchain, virtual reality and data science.” |
| New Courses | “Unity, IOS, mobile, modern JavaScript frameworks, node .. “
| Expose students to more practical skills and technology that are used in the industry” |
| Offer new classes based on students interests from Evaluation” |
Comments/Questions