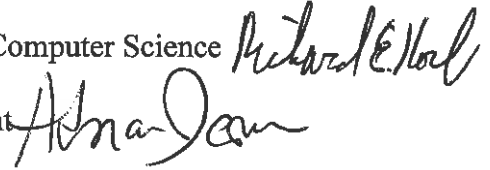


Computer Science Department

Andrea Lanter
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(310) 825-4943

To: Professor Jeff Eldredge, FEC Chair

From: Richard Korf, Vice Chair for Undergraduate Programs, Computer Science Department
Adnan Darwiche, Chair of Computer Science Department



Date: March 15, 2018

Re: CS 30 Creation, Request for Approval

We propose to create the course Computer Science 30: Principles and Practices in Computing, as an optional precursor to CS 31, the introductory course in the computer science curriculum. The Computer Science Academic Policy Committee has approved this course for proposal.

The goal of CS 30 is to retain and attract students in the major who don't have the background to thrive in CS 31 directly. Currently students in CS 31 have a broad spectrum of backgrounds in computing, ranging from no experience to having taken the Computer Science AP course and passed the AP test in high school. CS 30 will allow students with no or little prior experience to gain important knowledge and confidence before taking CS 31.

The impetus for CS 30 came from the Computer Science department becoming an affiliate member of the Building, Recruiting, And Inclusion for Diversity (BRAID) initiative, co-led by the AnitaB.org and Harvey Mudd College (<https://anitab.org/braid-building-recruiting-and-inclusion-for-diversity/>). BRAID supports CS departments to increase the percentage of women and underrepresented minority students in their undergraduate programs. Other Computer Science departments around the country, such as at Harvey Mudd and CMU, have found that creating separate tracks in the introductory sequence, for students with and without prior programming experience, has helped to retain and attract a more diverse student population.

A version of CS 30 was offered as CS 97 in Fall 2017, taught by Professor Todd Millstein. This initial experience was quite encouraging. The student response was overwhelmingly positive, as you can see from the attached course evaluations as well as an anonymous survey taken by students a few weeks into Winter 2018, to assess the transition to CS 31. Furthermore, it is notable that more than half of the enrolled students in CS 97 were female.

The advent of CS 30 will have minimal impact on the rest of the curriculum. The main change is that the Fall offering of CS 31, when most computing majors take the course, will be able to assume that all enrolled students have prior background in programming and so may move a bit faster through the first part of the course topics.

We appreciate your kind consideration.

UCLA Engineering

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To: Professor Jeff Eldredge, FEC Chair

From: Glenn Reinman, Vice Chair for Graduate Programs, Computer Science
Department
Adnan Darwiche, Chair of Computer Science Department



Date: March 15, 2018

Re: CS 267A Creation, Request for Approval

We propose to create the course Computer Science 267A: Probabilistic Programming and Relational Learning. The Computer Science Academic Policy Committee has approved this course for proposal.

The goal of CS267A is to modernize the graduate-level artificial intelligence curriculum and train students in an important artificial intelligence subfield that has emerged over the past two decades, but is not currently taught at UCLA. There is growing demand for trained graduate students in the related areas of probabilistic programming and relational learning, from both industry and academic research. For example, Uber's machine learning infrastructure is built on this technology, and top-tier computer science departments at MIT, Stanford, Berkeley, CMU, and the University of Washington all have multiple research labs working in these areas. Stanford (Psych 204/CS 428), MIT (9.S915), and Columbia, among others, offer graduate courses that are similar to the proposed CS267A.

A PhD-level version of CS267A was offered as a C269 seminar for a smaller group of students in Fall 2016 and Fall 2017. Student response was overwhelmingly positive with median ratings for the course of 8 and 8.5 out of a total of 20 students.

Introducing CS267A will be complimentary to the rest of the curriculum. It fills a need for more graduate course offerings in artificial intelligence and machine learning and increases flexibility for our graduate students. The course will be complimentary to other artificial intelligence courses, in particular CS262A and CS264.

We appreciate your kind consideration.





UCLA Engineering

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To: Professor Jeff Eldredge, FEC Chair

From: Richard Korf, Vice Chair for Undergraduate Programs, Computer Science Department
Adnan Darwiche, Chair of Computer Science Department 


Date: March 15, 2018

Re: CS Course Revisions, Request for Approval

We propose a change of prerequisites for Computer Science CM186 and the deletion of Computer Science courses 114 and 151C. We request that these changes take effect for Fall 2018.

Regarding the revision to Computer Science CM186:

We would like to remove ECE 102 as a co-requisite to cross-listed CS CM186. The instructor, Professor Savage, Chair of C&S Bio, has indicated that this requisite is not appropriate for this course. CS CM186 is primarily taken by C&S Bio majors. This change will also support recent changes to the CS & Bio curriculum to remove ECE 102 from the requirements, approved by the Letters and Science FEC effective Fall 2017.

Regarding deleting Computer Science 114:

We would like to delete Computer Science 114: Peer-to-Peer Systems. This course has not been offered in several years and the department has no plans to offer it in the future.

Regarding deleting Computer Science 151C:

We would like to delete Computer Science 151C: Design of Digital Systems. This course has not been offered in several years and the department has no plans to offer it in the future.

We appreciate your kind consideration.

UCLA Engineering

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Computer Science Department

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To: Professor Jeff Eldredge, FEC Chair

From: Richard Korf, Vice Chair for Undergraduate Programs, Computer Science Department
Adnan Darwiche, Chair of Computer Science Department



Date: March 15, 2018

Re: CS&E Curriculum Revisions, Request for Approval

We propose a change to the Computer Science & Engineering (CS&E) curriculum, changing the restricted Electrical and Computer Engineering (ECE) elective to an unrestricted ECE elective. We request that this change takes effect for Fall 2018.

The 4-unit ECE elective selected from Electrical and Computer Engineering 113, 115A, 115C, 132A, or 141 for the CS&E curriculum would change to indicate any upper division Electrical and Computer Engineering elective, 101-187, except for ECE 131A and CM182.

The 5-person undergraduate program committee was unanimous in recommending this change to the faculty. Faculty expressed no dissent at the time the topic was raised, as the changes will allow the students more flexibility in choosing their upper division ECE electives.

We appreciate your kind consideration.