REGULAR MEETING OF THE RIVERSIDE DIVISION

TUESDAY, DECEMBER 3, 2019
GENOMICS AUDITORIUM, ROOM 1102A
1:00 p.m.

ORDER OF BUSINESS   **PAGE**

* Approval of all items on the Consent Calendar requires a single unanimous vote called for as the first order of business under Special Orders. At the request of any member of the Division, any such item must be withdrawn and considered in its regular order on the agenda [bylaw 4.1.2].

† Reports received and placed on file "are received as presented and require no further action" [bylaw 4.1.3]. Only the reporting committee can change or withdraw these reports; however, at the request of any member of the Division, a report will be moved into its regular order on the agenda (Item 10. Reports of Standing Committees and Faculties) where it may be discussed, and motions relating to the report may be offered.

8   Report of the Representative to the Assembly

9   Report of Special Committees
None

10   Reports of Standing Committees and Faculties

Action Requested: Individual approval of each proposed change

11   Petitions of Students
None

12   Unfinished Business
None

13   University and Faculty Welfare
A. Committee on Faculty Welfare update on Faculty Climate Survey administered by the committee

B. Staff Assembly engagement survey results

C. General Education Review Update: Introduction, Timeline, and Next Steps

14   New Business
None

APPENDIX

November 21, 2019

K. Esterling, Secretary-Parliamentarian
Riverside Division of the Academic Senate

MINUTES OF THE REGULAR MEETING
OF THE RIVERSIDE DIVISION

MEETING
The Riverside Division of the Academic Senate met on Tuesday, May 21, 2019 at 1:10 p.m. in the Genomics Auditorium Room 1102A. Chair D. Rodríguez presided. The meeting was attended by 88 members of the Riverside Division.

MINUTES
The Minutes of the Regular Meeting of February 26, 2019 were approved as presented.

ANNOUNCEMENTS BY THE PRESIDENT
There were no announcements by the President.

ANNOUNCEMENTS BY THE CHANCELLOR AT RIVERSIDE
Chancellor Kim A. Wilcox addressed the Division.

The Chancellor talked about the leadership transition that will be taking place over the summer. Provost and Executive Vice Chancellor, Cynthia Larive, has accepted the position of Chancellor at University of California, Santa Cruz and will be leaving UCR. The Chancellor asked for nominations from the campus for an interim PEVC and these are due by end of May. This position will have a start date of July 1, 2019. Interviews for this position will take place in mid-June. The Chancellor noted that the national search for a permanent PEVC will take place in the fall.

Chancellor Wilcox discussed the strategic planning process that will take place to follow up on the 2020 plan. PEVC Larive has been the lead on this process, putting together working groups and committees. This process will slow down with her departure but will enable more thought process through the summer.

Chancellor Wilcox discussed campus culture. A complete assessment of the workplace environment has been done on the Student Affairs office. Two surveys have been completed with the student affairs staff and has reset several parameters within the division. A focus follow-up has been completed with Human Resources. The report is online, and the link will be forwarded to the Senate. Several compliance investments have also been made. A campus culture taskforce has been created and is being co-chaired by Associate Vice Chancellor for Diversity and Inclusion, Mariam Lam and Dean of Bourns College of Engineering, Christopher Lynch. The Chancellor has asked this group to formulate and have recommendations by the end of the calendar year.

Chancellor Wilcox thanked leadership for brining today's theme on Research to the Division.

The Chancellor then presented Professor Wenwan Zhong, Department of Chemistry, with the Chancellor's Award for Excellence in Undergraduate Research and Creative Achievement.

ANNOUNCEMENTS BY THE VICE CHANCELLORS
Provost and Executive Vice Chancellor, Cindy Larive thanked the Riverside Division and gave a farewell speech.

ANNOUNCEMENTS BY THE DEANS OR OTHER EXECUTIVE OFFICERS
There were no announcements by the Deans.

Chair Rodríguez called upon the Secretary Parliamentarian to provide the report on election results. The Secretary Parliamentarian informed the Division that the results of the 2019-2020 recent elections for the Division, Colleges and Schools could be found on pages 10-13 of the meeting agenda.

There were several positions that had no more nominees than vacancies and there were no nominations received from the floor. The Division authorized the Secretary-Parliamentarian to cast a single ballot for all open positions.

ANNOUNCEMENTS BY THE CHAIR
Chair Rodríguez addressed the Division and thanked the Senate staff and the Senate committee chairs and members.

Chair Rodríguez noted that the General Education Review Committee had its first kick off meeting last Friday and acknowledged Professor Bob Clare, who will be chairing this committee.

SPECIAL ORDERS
The Consent Calendar was unanimously approved.

The degree reports and regular reports of standing committees and faculties were received and placed on file.

REPORT OF THE REPRESENTATIVE TO THE ASSEMBLY
Riverside Assembly Representative Professor Manuela Martins Green provided the Division with a written report from the Assembly meeting on April 10, 2019. This can be found on page 134 of the full agenda. There were no questions from the Division.

REPORTS OF SPECIAL COMMITTEES
There were no reports of Special Committees.

REPORTS OF STANDING COMMITTEES AND FACULTIES
Professor Linda Walling introduced and moved adoption of the nomination of Distinguished Professor Georgia Warnke, Department of Political Science and Distinguished Professor Ashok Mulchandani, Department of Chemical and Environmental Engineering as the recipients of the Distinguished Campus Service Award. The contributions of Distinguished Professors Warnke and Mulchandani are summarized in the report of the Committee found on pages 137 and 139 of the full agenda. The motion was approved unanimously and Distinguished Professors Warnke and Mulchandani were presented with the award.

Professor Yenna Wu introduced and moved adoption of the nomination of Associate Professor Thomas Sy, Department of Psychology, as the recipient of the Distinguished Teaching Award. The contributions of Professor Sy are summarized in the report of the Committee found on page 141 of the full agenda. The motion was approved unanimously and Professor Sy was presented with the award.

Professor Jason Stajich introduced and moved adoption of the nomination of Professor Amit Roy Chowdhury, Department of Electrical and Computer Engineering, as the recipient of the Graduate Dissertation Advisor/Mentoring Award. The motion was approved unanimously.

Academic Senate Chair Rodríguez introduced and moved adoption of the nomination of Distinguished Professor Bir Bhanu, Department of Electrical and Computer Engineering, as the Faculty Research Lecturer for 2019-2020. The contributions of Professor Bhanu are summarized in the report of the Committee found on page 142 of the full agenda. A round of applause approved the motion unanimously. Congratulations were extended to Professor Bhanu.

Academic Senate Chair Rodríguez introduced the UC San Francisco Academic Senate Memorial to the Regents on Fossil Fuel Divestment, which would petition the Regents to divest the University's endowment portfolio of all investments in the 200 publicly traded fossil fuel companies with the largest carbon reserves. The Division voted to approve to move the memorial forward. The results of the vote will be forwarded to the Chair of the Assembly and the Chairs of the other Divisions.

Professor Jason Stajich, Chair of the Graduate Council, introduced and moved for adoption of the proposed changes to GR1.2 Standards of Scholarship and Disqualification, found on page 153 of the full agenda. The motion was approved unanimously.

Professor Johannes Endres, Chair of the CHASS Executive Committee, introduced and moved for adoption the proposal for a medical and Health Humanities Minor, found on page 156 of the full agenda. The motion was approved unanimously.

Professor Louis Santiago, Chair of the CNAS Executive Committee, introduced and moved for adoption of the proposed change to Specify Cooperative Extension Specialist as Eligible to Attend Meetings of the CNAS Faculty, found on page 384 of the full agenda. The motion was approved unanimously.

PETITIONS OF STUDENTS
There were no petitions from the students.

UNFINISHED BUSINESS
There was no unfinished business.

UNIVERSITY AND FACULTY WELFARE
Chair Rodríguez introduced the special theme for today's meeting: UCR and the "Research Mission:" The Future of Ph.D. Training and Faculty Scholarship on Our Campus Discussion: As the UCR campus undertakes a new strategic planning process and the Academic Senate initiates a potentially transformative review of its general education curriculum, it is an urgent time to raise questions about UCR's identity as a "tier one" public research institution. How will UCR fulfill our mission to train new generations of researchers and academic colleagues in the coming years? How can UCR's Ph.D. programs grow *and sustain* capacity, scholarly distinction, and top-tier quality under challenging and materially restrictive institutional circumstances? How will UCR attract, retain, materially sustain, and intellectually nourish its faculty in a manner that resonates the University of California research mission?
Chair Rodríguez introduced the following individuals for discussion: Anthony Jerry, Principal Investigator of Blackness Unbound: Critical Black Diaspora Studies Working Group (Assistant Professor, Anthropology); Imani Kai Johnson, (Assistant Professor, Critical Dance Studies); Hyle Park, Vice Chair of Graduate Council and Division Representative to CCGA (Associate Professor, Bioengineering); Shawn Ragan, President of Graduate Student Association (Ph.D. student, History); Jason E Stajich, Chair of Graduate Council (Professor, Microbiology and Plant

Pathology) and Sandra Turner, (Assistant Professor, Paleoclimate/Paleoceanography, Earth Sciences).

NEW BUSINESS
There was no new business.

There being no further business, the meeting was adjourned at 2:57 p.m.

ATTEST:

K. Esterling, Secretary-Parliamentarian
Riverside Division of the Academic Senate

Leondra Jacobs
Recording Secretary

SECRETARY-PARLIAMENTARIAN
REPORT TO THE RIVERSIDE DIVISION
DECEMBER 3, 2019

2019-2020 RESULTS FROM THE CALL FOR NOMINATIONS

To be received and placed on file:

1.   RIVERSIDE DIVISION

 A call for Nominations was issued for the following positions:

Representative to the Assembly (To replace Daniel Jeske)
One valid nomination was received:
- Isgouhi Kaloshian

Committee on Committees

One representative from BCoE (3-year term)
One valid nomination was received:
- Jianlin Liu

One representative from CHASS (To complete David Lloyd's unexpired term ending in 2021)
Two valid nominations received:
- Jonathan Eacott, Department of History
- Sarita See, Department of Media and Cultural Studies

An election was held, and the results of the ballot are as follows:
- Jonathan Eacott   55 votes*
- Sarita See   52 votes

*Professor Jonathan Eacott has been elected to the position of member to the Committee on Committees.

2.   BOURNS COLLEGE OF ENGINEERING

A call for Nominations was issued for the following positions:

One Member, BCoE Executive Committee (3-year term)
Elected from the Department of Computer Science and Engineering
(To replace Philip Brisk)

One valid nomination was received:
- Zizhong Jeffrey Chen

3.   COLLEGE OF HUMANITIES, ARTS & SOCIAL SCIENCES

A call for Nominations was issued for the following positions:

One member, CHASS Executive Committee (2-year term)

To be chosen from among Art History, English, History, Comparative Literature and Languages, Philosophy, Religious Studies, Hispanic Studies and Gender & Sexuality Studies.

One valid nomination received:
- Peter Graham

4.   **COLLEGE OF NATURAL AND AGRICULTURAL SCIENCES**

A call for nominations was issued for the following positions:

One Member, CNAS Executive Committee (3-year term)
Elected from the Department of Biochemistry

One valid nomination was received:
- Richard Debus

5.   **GRADUATE SCHOOL OF EDUCATION**

A call for Nominations was issued for the following position:

One Member, to be chosen from the Faculty at Large
After a second Call for Nominations, no valid nominations were received. Another call for nominations will be issued at a later date

6.   **SCHOOL OF MEDICINE**

A call for Nominations was issued for the following position:

One member, to be chosen from the Clinical Sciences (2-year term)
(To replace Paul Lyons)
One valid nomination was received:
- Kimberley Lakes

7.   **SCHOOL OF PUBLIC POLICY**

A call for Nominations was issued for the following position:

One Member – At Large (3-year term)
(To replace Ariel Dinar)
One valid nomination was received:
- Karthick Ramakrishnan

The results from the Call for Nominations and Elections have been posted on the Academic Senate website.

To be adopted:

Proposed changes to the B.S. in Physics

PRESENT:	**PROPOSED:**

Major Requirements

The major requirements consist of a core curriculum and additional requirements for various B.S. degrees. The core requirements for the B.A. and B.S. degrees in Physics are as follows:

1. Lower-division requirements (70 units)   1. (No Change)

    a) one of the following sequences: PHYS 041A, PHYS 041B, PHYS 041C, or PHYS 040A or PHYS 40HA, PHYS 040B or PHYS 40HB, PHYS 040C or PHYS 40HC, PHYS 040D, PHYS 040E. The first sequence is preferred for the B.S. in Physics.   a) (No Change)

    b) PHYS 39   b) PHYS 039

    c) MATH 007A or MATH 009A or MATH 09HA, MATH 007B or MATH 009B or MATH 09HB, MATH 009C, MATH 010A, MATH 010B, MATH 046   c) (No Change)

    d) CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC   d) (No Change)

    e) CS 010. A higher-level CS course may satisfy the CS 010 requirement with approval.   e) (No Change)

2. Upper-division requirements (41 to 42 units)   2. (No Change)

    a) PHYS 130A, PHYS 130B, PHYS 132, PHYS 135A, PHYS 135B, PHYS 156A, PHYS 156B   a. (No Change)

b) PHYS 139L (5 units), PHYS 142L (4 units) or PHYS 142W (5 units). Note that PHYS142W satisfies the ENGL 1C requirement.

    b. (No Change)

c) 4 units of upper division Physics electives. Upper division math, science ~~of~~ engineering may be substituted with approval.

    c. 4 units of upper division Physics electives. Upper division math, science <u>or</u> engineering may be substituted with approval.

Physics: Standard Track (B.S. degree)

1. Additional upper-division requirements (16 to 17 units)

    1. (No Change)

    a) PHYS 136

    a) (No Change)

    b) ~~One additional quarter of either PHYS 142L (4 units) or PHYS 142W (5 units). Approved undergraduate research (PHYS 195A, PHYS 195B, PHYS 195C, PHYS 195D) in physics or an internship (PHYS 198-I) in physics at a government or industrial laboratory can be used in place of up to 4 units of PHYS 142L.~~

    b) <u>One of the following: one additional quarter of PHYS 142L (4 units) or PHYS 142W (5 units); at least 4 units of Senior Thesis (PHYS 195A, PHYS 195B, PHYS 195C, PHYS 195D); at least 4 units of Internship in Physics (PHYS 198I); participation in an approved summer research program, such as a NSF REU, and an additional 4 units of upper division physics elective.</u>

    c) 8 additional units of upper division Physics electives. PHYS 156C is highly recommended for those planning to go to graduate school in physics.

    c) (No Change)

Physics: Biophysics Track (B.S. degree)

1. Additional lower-division requirements (25 units)

    1. (No Change)

    a) BIOL 005A, BIOL 005B, BIOL 005C, BIOL 05LA or BIOL 020.

    a. (No Change)

    b) CHEM 008A, or CHEM 08HA, CHEM 008B or CHEM 08HB, CHEM 008C or CHEM 08HC, CHEM 08LA or CHEM 08HLA, CHEM 08LB or CHEM 08HLB, CHEM 08LC or CHEM 08HLC

    b. (No Change)

2. Additional upper-division requirements (8 units)

    a) 8 additional upper-division units taken from BCH 110A, BCH 110B, BCH 110C or BIOL 107A (other upper division CHEM/BIOL/BCH may be substituted upon approval)

2. (No Change)

    a. (No Change)

Physics Education Track (B.S. degree ~~only~~)

1. Additional lower-division requirements (~~10 units~~)

    a) EDUC 003, EDUC 004

2. Additional upper-division requirements (8 units)

    ~~a)~~ Choose two courses from the following list: ~~EDUC 109 or EDUC 109S, EDUC 110 or EDUC 110S, EDUC 116 or EDUC 116S, EDUC 174 or EDUC 174S, EDUC 175 or EDUC 175S~~

Physics Education Track (B.S. degree)

1. Additional lower-division requirements <u>(6 units)</u>

    a) EDUC 003, EDUC 004

2. Additional upper-division requirements (8 units)

    a) Choose two courses from the following list: <u>EDUC 105 (highly recommended), EDUC 147, EDUC 162, EDUC 132, EDUC 178 or EDUC 177, EDUC 179A</u>

Physics: Applied Physics and Engineering Track (B.S degree)

1. 16 additional units of approved Engineering electives including a minimum of 8 units at the upper-division level. A list of approved CS, EE, ME, CEE, CHE, and BIEN courses is available upon request from your physics faculty academic advisor or your advisor in the CNAS Advising Center. Example course plans can be found in the department web pages.

1. (No Change)

Students continuing on to graduate school are encouraged to take additional upper-division courses in Mathematics, such as MATH 146A, MATH 146B, MATH 146C, MATH 165A, MATH 165B, and ~~MATH 113~~.

Students continuing on to graduate school are encouraged to take additional upper-division courses in Mathematics, such as MATH 146A, MATH 146B, MATH 146C, MATH 165A, MATH 165B, and <u>MATH 131</u>.

Students may wish to earn a Minor in Mathematics which requires an additional 24 units of upper division math.

(No Change)

To graduate, a minimum grade point average of

(No Change)

2.00 (C) is necessary overall and in the upper-division courses taken for the major (courses listed under 2.).

Justification:

1) The department wants to encourage students to participate in summer research. The capstone Advanced Lab class (PHYS 142) has limited capacity. All students must take it once. We feel participation in a high-quality summer research program, such as a NSF REU, the SULI program, or the NASA/JPL/UCR FIELDS program, at least meets and often surpasses the value of the research experience they would get from a second quarter of PHYS 142. By allowing a summer research program, approved by a faculty academic advisor, to substitute for the second quarter of PHYS 142, we will add flexibility, incentivize research, and relieve enrollment pressure on PHYS 142, which is now a bottleneck for the major due to its limited capacity. Note that if a student uses a summer research experience in place of the second quarter of PHYS 142, they must take an additional 4-unit physics elective.

2) The first change is correcting an error. For the second change, EDUC 105 is a new course with the title "Introduction to Science Pedagogy", which covers contemporary pedagogical teaching strategies, including the Common Core State Standards and the new Next Generation Science Standards. This is an ideal course for the Physics Education Track.

3) We are adapting to the EDUC course's renumbering and discontinuing changes and we want the text of the catalog to be correct. Not changing it wouldn't make sense.

4) The only difference is changing MATH 113 to MATH 131 at the end of the sentence. This is a correction of an error. When the math department changed the course number for Linear Algebra I from 113 to 131, the text here wasn't updated. The course MATH 113 no longer exists. The correct course is MATH 131.

Approvals:

Approved by the Faculty of the Department of Physics and Astronomy: October 23, 2018
Approved by the College of Natural and Agricultural Sciences Executive
Committee: October 1, 2019
Approved by the Committee on Educational Policy: October 11, 2019

COMMITTEE ON ACADEMIC FREEDOM
ANNUAL REPORT TO THE RIVERSIDE DIVISION
December 3, 2019

To be received and placed on file:
The Committee on Academic Freedom is an important part of faculty governance and collegial responsibility in the University of California system. As a committee of the Riverside Academic Senate, Academic Freedom is appointed by the Senate's Committee on Committees and consists of five members of the Division, including as *Ex-Officio* the Chairs of the Committee on Privilege and Tenure and the Committee on Faculty Welfare. The Committee is responsible for reporting to the Division any conditions within or without the University that in the judgement of the committee may affect the freedom of the academic community at large. It is understood that academic freedom includes, but is not necessarily limited to, the free inquiry and exchange of ideas, the right to present controversial material relevant to a course of instruction, and the freedom to publish or disseminate controversial information and perform research in controversial areas. It is also understood that academic freedom is to be conjoined with academic responsibility; it is to be exercised in accordance with standards appropriate to the relevant scholarly disciplines.

The Committee on Academic Freedom conducted committee activities via email and met one time during the 2018-2019 academic year. In addition to reaffirming its Conflict of Interest Statement, the Committee undertook the following actions:

a.   Communication with the Campus at Large
In keeping with its charge to assist in the education of the academic community regarding the rights and responsibilities relating to academic freedom, the Committee conducted a review of its bylaws and communicated a statement of its duties and mission to the general UCR academic community via the Senate email.

b.   Discussions with Campus Leadership and Recommendations to the Administration
Recommendations to Senate. Proposed amendment to UCR Procedures SAR Application-approved by Riverside Division 5.29.18
At the May 23, 2017 Riverside Division meeting a resolution was adopted that requested the Committee on Academic Freedom to recommend procedures to collaborate with Scholars at Risk (SAR) and Scholars Rescue Fund (SRF) and with administrative staff to facilitate and encourage the invitation of refugee scholars to the UCR campus and to share regular and equitable processes by which these ends can be achieved. The Committee was also to recommend a process for UCR faculty, Deans, and Chairs to consult SAR's and SRF's lists to identify and communicate to the Senate committee the names and credentials of scholars they would like to invite as visiting faculty, particularly when regular faculty go on leaves or sabbaticals. These recommendations were followed by the committee and resulted in a Procedures document for Scholars at Risk at UCR.

The Committee on Academic Freedom was informed that the UCR Procedures SAR Application that was approved by the Division on 5.29.18 contained an unintentional error. The composition of the review committee membership contained representation from all schools/colleges except for the School of Business. As a result, the Committee on Academic Freedom put forth a proposal to amend the original procedures. The modification includes a faculty member from the School of Business to serve on the review committee.

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Recommendations to Chair Rodriguez. Committee's thoughts on UCR Strategic Plan
The Committee on Academic Freedom discussed the upcoming content and process for UCR's Strategic Plan, within the context of UCR 2020, the most recent university strategic plan. The following comments were presented by committee members.

1. We need to look at where UCR stands in reference to achieving 2020 plan goals. We would like a summary of where UCR stands before offering specific suggestions for the future.

2. We want to ensure this is a Senate based process with faculty and student involvement. As well, the process should be communicated clearly and well in advance of initiation.

3. Plan should match who we are instead of our pretentions.

4. Specific areas and issues:

    A. Graduate students: Taking more graduate students depends on funding support. International students come with funding, but visa is problematical. Packages offered do not compare to other institutions. Consideration should be given to tuition waivers for international graduate students who cannot obtain funding from research grants. This will increase our graduate student population.

    B. Fundraising: What are the prospects and actualities of funding from donors; where is the money going; how is it being used?

    C. Funding in CHASS: With the current structure, there is a need to enroll more students to acquire TAs. Should CHASS reduce number of graduate students and packages in order to ensure that current students finish?

    D. Financing: Should one part of the institution subsidize another? Students are not taking History as a major; instead, they are taking Business. Are we then offering a consumer model for financing undergraduate education?

    E. Online programs and courses: These can affect academic freedom. They generate money, but can faculty reject teaching a class if they do not want to teach it? Do faculty have the freedom to teach online courses the way they want? We should encourage caution with proliferation of online courses and programs and ensure they are carried out with academic freedom standards and faculty rights. Should a student attain a degree without ever meeting a professor? This is a concern, although a student taking one or two online courses to finish up a degree may be practical.

Recommendations to Administration. Academic Freedom's Response to UCR Vice Provost for Academic Personnel Ameae Walker's Response of June 28, 2018 to the Senate review of the Campus Implementation Procedures for the Negotiated Salary Trial Program
The Committee on Academic Freedom considered the response to the Senate review of the Campus Implementation Procedures for the Negotiated Salary Trial Program received from the

Vice Provost for Academic Personnel Ameae Walker and noted the following concerns and queries:

A. When a grant is given from one institution, or business, or industry and the faculty member works for another institution, a conflict of interest comes into play when research is focused on business or industry rather than academia.

B. The program might give a group of people on campus more power with administration and within departments because of the money. The program may exacerbate salary gap issues which are problematical at UCR.

C. There is an unknown impact on time spent with students and teaching. Does the extra money come with extra responsibilities? Or are the grants modified so that one receives more money for the same work?

D. Does the responsibility of the individual remain unchanged and is it the responsibility of the department to ensure workloads are maintained?

In general, the committee viewed the response from Vice Provost Walker as one that did not answer the questions and concerns in a direct fashion. Rather, the response was a rationalization for the program as communicated in policy and procedure documents. Some members of the committee noted that the Senate has no power on this matter of the implementation of a negotiated salary program.

c.   Responses to additional issues raised by the Academic Senate
In keeping with its charge to evaluate and propose revision as needed to current institutional policies as they might relate to academic freedom, the Committee considered the following Campus and System-wide issues:

Campus Review
- Endowed Term Chair for Teaching, Research and Service in CNAS

System-wide Review
- Executive Summary (Draft) – Report of Task Force on University Policing
- 2nd Round. Review of Proposed Presidential Policy on Open Access for Theses and Dissertations
- Proposed Revisions to Senate Bylaw 336
- Proposed Revisions to SVSH Academic Frameworks
- APM – 011, Academic Freedom, Protection of Professional Standards, and Responsibilities of Non-Faculty Academic Appointees

The Committee offered no comments on the following system-wide review items:
- Proposed Revised Policy on Sexual Violence and Sexual Harassment
- Proposed Revisions to Presidential Policy BFB-RMP-7 Protection of Administrative Records Containing Personally Identifiable Information

The Committee's formal response to each issue is located on the Academic Senate website and can be found at: http://senate.ucr.edu/about/issues/2018-2019/

d.   Representation at Systemwide Senate and the Executive Council

The Committee on Academic Freedom continued its active participation on the systemwide University Committee on Academic Freedom (UCAF). The 2018-19 UCAF representative was Professor Devra Weber, who updated committee members of the issues under discussion at the statewide level.

Respectfully submitted,

     John Levin, Chair
     Katja Guenther
     Dimitri Maslov
     Devra Weber
     Michael Adams, *Ex-Officio, CP&T*
     Daniel Jeske, *Ex-Officio, CFW*
     Irma Ortiz – GSA Representative
     Nathalei De Paz – ASUCR Representative

COMMITTEE ON ACADEMIC PERSONNEL
ANNUAL REPORT TO THE RIVERSIDE DIVISION
December 3, 2019

To be received and placed on file:

The Committee on Academic Personnel (CAP) is an important part of faculty governance and collegial responsibility in the University of California system. As a committee of the Riverside Division of the Academic Senate, CAP is appointed by the Senate's Committee on Committees and charged with providing advice to the Chancellor on academic personnel matters and representing the Division in all matters relating to appointments and promotions. CAP consists of ten members, who represent a wide variety of academic disciplines from across campus. All members hold the rank of full professor and serve for offset periods of three years (with annual reappointment) so that there is continuity and memory on the committee. CAP reviews all academic personnel files for merit, appraisal, promotion, and appointment and makes recommendations to the Vice Provost for Academic Personnel, the Executive Vice Chancellor and Provost, and the Chancellor. CAP is also asked to provide feedback and recommendations about a variety of Senate matters and administrative directives.

CAP's goal is to assure that its recommendations are based on rigorous application of the academic personnel procedures in the CALL and the APM, and to assure that decisions are based on a fair and thorough evaluation of evidence in the file.

CAP met on 46 occasions during the 2018-19 academic year. Meetings were approximately 2 hours in length. By the final May submission date in the CALL, there were 46 outstanding files campus wide to be routed to CAP for review. CAP again is appreciative of staff and faculty alike for their efforts in the academic personnel review process.

I. Personnel Actions
a. Summary of Reviews
CAP reviewed 364 personnel actions during 2018-19 and sustained an average turn-around time of 23 days from the time a file is received at CAP from the Academic Personnel Office to the time the CAP recommendation is forwarded to the administration. Committee work during this period includes (a) receipt of the file in the Academic Senate Office by the CAP Analyst, who reviews the file to assure that it is complete for CAP review; (b) assigning of primary and secondary readers to each file by the CAP Chair, who serves as the third reader; (c) announcement to all CAP members that the file is available for their review online; (d) thorough review of the file by the assigned readers in preparation for discussion by the full committee at the next CAP meeting; (e) presentation of the file and discussion/vote by the full committee; (f) preparation of the draft CAP recommendation by the primary and secondary readers; (g) review and signature by the CAP Chair, who forwards the CAP report to the CAP Analyst to be finalized and forwarded to the Academic Personnel Office.

The Academic Senate office also maintains data reflecting the processing time (including the percentage of files that are forwarded according to due dates in the CALL) by department and school/college, as well as turn-around time for files reviewed by ad hoc committees. These data

are available from the Academic Senate Office.

A decision of the Chancellor's office is defined as an over-rule if it is contrary to the majority recommendation from CAP on rank, step, or the awarding of an off-scale.

- Of the 223 merit actions reviewed by CAP, CAP endorsed 191. The final decision of the Chancellor's Office over-ruled CAP's rank/step recommendation on 5 cases and disagreed on off-scale recommendations in 13 instances.
  - o Of the 51 accelerated merits proposed, CAP and the administration disagreed in 5 instances.
- Of the 40 promotions to Associate Professor, Full Professor, and Associate Professor of Teaching (LSOE), CAP supported 38 cases. The Chancellor's Office overruled CAP's recommendation on 5 cases and disagreed on off-scale recommendation in 3 instances.
  - o Of the 16 post-promotion accelerations proposed, CAP and the administration disagreed in 4 instances.
- Of the 11 advancement to Professor Step VI and to Professor Above-Scale actions proposed, CAP endorsed 9 cases. The Chancellor's Office overruled CAP's recommendation on 1 case and disagreed on the off-scale recommendation in 1 instance.
  - o CAP and the administration agreed on the 3 accelerated advancements proposed.
- Of the 27 fifth year appraisals proposed, CAP and the administration disagreed in 1 instance.
- CAP reviewed 24 of the 25 proposed new appointments. The Chancellor's Office approved 23 of the 25 cases with 1 file pending a final decision and 1 pending resubmission in the 19-20AY. The Chancellor's Office overruled CAP's recommendation in 2 cases.
- Of the 9 reappointments proposed, CAP and the administration disagreed in 1 instance. All reappointment actions were approved by the Chancellor's Office.
- Of the 10 career review actions reviewed by CAP, the final decision of the Chancellor's Office over-ruled CAP's rank/step recommendation on 2 cases. One case resulted in no change to the current rank or step, two cases resulted in a one-step merit increase, five cases resulted in a two-step merit increase, one case resulted in a promotion to full professor, and one case resulted in a promotion to full professor plus a one-step merit increase.
- Of the 19 quinquennials reviewed, the Chancellor's Office overruled CAP's recommendation on 1 case. Of the 9 quinquennials cases at a barrier step that proposed an off-scale, CAP and the administration disagreed in 1 instance.

A detailed table summary of CAP's personnel reviews merits, promotions, advancements, appraisals, appointments, career reviews, and quinquennial reviews, is appended.

b.   Follow up to the cases listed as pending in the 17-18 CAP Report
Of the 39 appointment files submitted for review in the 17-18 AY, one case was noted as pending for resubmission in the 18-19 AY. This appointment file is still pending and may be resubmitted to CAP for consideration in the 19-20 AY.

c.   *Ad hoc* Committees

The Committee on Academic Personnel continued to act as its own ad hoc for promotion to tenure and Advancement to Above-Scale cases, a process which results in early decisions for the majority of these promotion cases. During the 18-19 review year, CAP did not utilize an ad hoc committee.

d.   Shadow CAP

To avoid conflict of interest, the personnel actions for current CAP members and their spouses/partners are reviewed by Shadow CAP, a 6-person committee appointed by the Committee on Committees from a pool of former CAP members from the previous five years. During 2018-19, Shadow CAP reviewed 2 cases. The 2018-19 Shadow CAP members were the following:

> Mark Springer, Chair
> Linda Walling
> Ashok Mulchandani
> Christine Chiarello
> Jang-Ting Guo
> Georgia Warnke

e.   Assistant Professor Appointments

In January 2008, final decisions for appointments to Assistant Professor Step I-III were delegated to the deans, with the proviso that CAP would conduct a *post hoc* audit/review of the appointments and submit recommendations about continuing with the delegation. In fall 2013, CAP reviewed 42 appointments made at this level for the 11-12 and 12-13 years. Noting a number of procedure irregularities, CAP rescinded its waiver of review for all appointments for Acting Assistant Professor, Step III and clarified the expectation that all reappointments for Assistant Professor Step I-III will continue to be reviewed by CAP. The Committee recommended that the delegation be continued for appointments to Assistant Professor Step I-III followed by another CAP review in one to two years. In the 2015-16 AY CAP was asked to consider waiving its right to review appointment files for Assistant Professor in Residence and Assistant Professor of Clinical X (Step I to III) series which have been delegated to the deans for final decision authority. CAP considered this request and elected to continue reviewing these cases in advance of the final decision. In the 2016-2017 AY CAP was scheduled to conduct a post-appointment audit of all 13-14 and 14-15 dean's level hires. However, CAP was unable to complete the post-audit because a response to the request for files was not received. The 17-18 AY CAP did not conduct a post-audit of dean's level hires. The 18-19 AY CAP did not conduct a post-audit as APO was focused on moving over to the new eFilePlus system. The issue of conducting post-audits and the continuance of CAP waiving its right to review files will be considered in the 19-20 AY.

f.   eFilePlus

CAP reviewed 335 of its 364 cases via the new eFilePlus system (92%) and 29 of its 364 cases via the Document Management System (8%).

g.   Other Personnel Actions (not included in the total number of files reviewed by CAP)
- Dickson Emeritus Professorship: CAP reviewed and endorsed three nominations for the 2018-19 Dickson Emeritus Professorship, sent forward by the Committee

on Faculty Welfare.
- Professor of the Graduate Division appointments: CAP reviewed 6 files for appointment/reappointment as Professor of the Graduate Division. All appointments were approved.
- Request for Emeritus Status: CAP reviewed and endorsed two cases to confer the title of Emeritus to non-senate faculty.
- Full Time Equivalent (FTE) Transfer of Appointment: CAP considered and provided recommendations on four requests to transfer an entire or a portion of a filled FTE appointment from one department to another. CAP also commented on a request to reduce an FTE from 100% to 50%.
- Pre-Emptive Retention Cases: CAP provided recommendations on five pre-emptive retention cases.
- Placement of LSOE-LPSOE faculty on rank and step scale: CAP provided recommendations on 26 cases for placement on the rank and step scale.

II.   CAP Discussions with and Policy Recommendations to the Administration

In addition to regular CAP meetings to review personnel cases, CAP met on occasion with the Chancellor, the Executive Vice Chancellor & Provost, the Vice Provost for Academic Personnel, the College/School Deans, and with Departmental Chairs. CAP participation in these joint administrative sessions is especially helpful in assuring a shared understanding of the review process and guidelines, and of the expectations at every level of review. CAP is grateful for the spirit of cooperation of the campus administrators. CAP provided advice to and initiated or participated in discussions with the administration on the following issues:

a.   Revisions to the CALL

CAP reviewed and provided feedback to the VPAP on proposed changes received by the campus at large. CAP's comments and suggested changes can be found on the committee webpage http://senate.ucr.edu/committee/4/Archive.html

b.   CAP Review of Proposed Department Chair Appointments

CAP reviewed the proposed department chair appointments for the 2019-2020 academic year and expressed no concern about the recommendations submitted.

c.   Endowed and Presidential Chair Appointments

CAP reviewed and provided comments on appointments/reappointments to the following Endowed and Presidential Chair positions:

BCOE

William R. Johnson, Jr. Family Chair in Mechanical Engineering

CHASS

Tomás Rivera Endowed Chair in English & Creative Writing

SoM

Salma Haider Endowed Chair in Biomedical Sciences
S. Sue Johnson Presidential Endowed Chair in Biomedical Sciences
William R. & S. Sue Johnson Endowed Chair in Clinical Sciences

d.   Administrative Appointments – other Appointment "pre-reads"

It is customary for CAP to provide preliminary input regarding the faculty appointment of any senior administrators, including: Chancellors, Vice Chancellors, Provosts, Deans, Institute Directors, Directors of ORUs, Laboratory Directors and other offices who are also faculty members. CAP provided a preliminary professorial assessment on the candidates for the Vice Chancellor of Research and Economic Development position. CAP completed a "pre-read" on five Target of Excellence candidates (2 CHASS, 3 CNAS) and one spousal hire in CHASS.

e.   Additional Local Issues

CAP corresponded with administration to seek clarification and/or ask that advice be communicated to the campus regarding the following topics:

- Ensuring a consistent and fair review of merit and promotion files across campus
- Ensuring recommendations are based on criteria in the Call and material in the file
- Clarification on teaching, service and scholarly expectations for the LPSOE/LSOE series
- Balanced department letters that address each aspect of the material presented in the file and are reflective of all department votes
- Issues with requests to expedite files that do not contain full materials needed to conduct a review in a fair and transparent manner
- Clarification regarding teaching responsibilities

III.   CAP Advice to the Academic Senate

CAP is asked to provide feedback and recommendations about a variety of Senate matters and administrative directives. In addition to reaffirming its policy on Conflict of Interest, the Committee reviewed and provided comments on the following items:

- Committee's thoughts on UCR Strategic Plan
- Proposal regarding course release compensation for CAP members

a.   CAP Review of Proposed Revisions to the Academic Personnel Manual and other personnel processes

The Committee's formal response to each issue is located on the Academic Senate website and can be found at: http://senate.ucr.edu/about/issues/2018-2019/

Campus Review

- Transfer of and Changes to the LGBIT Studies Minor Program
- Transfer of the Bachelor of Science Degree in Business Administration to the School of Business
- Updated Proposal - Transfer of the Bachelor of Science Degree in Business Administration to the School of Business
- Provost's Taskforce for Hybrid and Online Education Final Report
- Extension of Exception to APM 275-16-f(3) Restrictions: 1/6 Limitation on Appointment to Professor of Clinical X Series
- Department Name Change: Earth Sciences to Earth and Planetary Sciences
- Endowed Chair Proposal: Endowed Term Chair for Teaching, Research & Service in CNAS

System-wide Review
- Proposed Revisions to the Presidential Policy on Sexual Violence and Sexual Harassment
- Proposed Revisions to Senate Bylaw 336
- Proposed Revisions to SVSH Academic Frameworks
- New APM 011, Academic Freedom, Protection of Professional Standards, and Responsibilities of Non-Faculty Academic Appointees

b.   CAP Representation at Systemwide Senate and the Executive Council

CAP continued its active participation on the systemwide University Committee on Academic Personnel. The 2018-19 CAP representative was Professor Sherryl Vint. CAP Chair Gupta represented the committee on the UCR Academic Senate's Executive Council.

c.   Bylaw 55 delegations

CAP continues to rely on each department to send its Bylaw-55 delegations and departmental voting procedures to the Senate. Departmental Bylaw-55 designations are collected each year through the end of October.

Finally, CAP thanks all who have contributed to the personnel process. The process works as well as it does only because of the hard work and dedication of all involved.

Respectfully submitted,

 Rajiv Gupta, Chair
 Walter Clark
 Mary Droser
 Howard Judelson
 Adam Lukaszewski
 Susan Ossman
 David Pion-Berlin
 Aman Ullah
 Sherryl Vint
 Yingsheng Wang

TABLE I: SUMMARY OF PROMOTIONS AND ADVANCEMENTS

PROMOTIONS TO ASSOCIATE PROFESSOR/ASSOCIATE PROFESSOR OF TEACHING (LSOE):
Total Proposed: 27
Total Approved by Chancellor   24
Approval %   89%

Department			Ad Hoc			Dean			CAP								Chancellor						
Yes	No	Other	Yes	No	Other	Yes	No	Other	Yes	No	Split	AHS	AOS	NOS	ALS	LOS	Yes	No	AHS	AOS	NOS	ALS	LOS
25	1	1				26	1		19	2	1		1			4	18	3		3			3

PROMOTIONS TO PROFESSOR:
Total Proposed: 13
Total Approved by Chancellor   13
Approval %   100%

Department			Ad Hoc			Dean			CAP								Chancellor						
Yes	No	Other	Yes	No	Other	Yes	No	Other	Yes	No	Split	AHS	AOS	NOS	ALS	LOS	Yes	No	AHS	AOS	NOS	ALS	LOS
13						11		2	7				1		2	3	9			1		1	2

ADVANCEMENTS TO PROFESSOR VI & ABOVE-SCALE:
Total Proposed: 11
Total Approved by Chancellor   8
Approval %   73%

Department			Ad Hoc			Dean			CAP								Chancellor						
Yes	No	Other	Yes	No	Other	Yes	No	Other	Yes	No	Split	AHS	AOS	NOS	ALS	LOS	Yes	No	AHS	AOS	NOS	ALS	LOS
11						11			9	2							7	3		1			

Key to Abbreviations:
CAP = Committee on Academic Personnel
CHAN = Chancellor or Executive Vice Chancellor
SPLIT = CAP not clearly positive or negative
AHS= Recommended/Approved Step Higher than initially recommended by Department
AOS= Recommended/Approved OS salary in addition to merit advance recommended by Dept.
NOS= Recommended/Approved merit advance but not additional OS salary recommended by Dept.
ALS= Recommended/Approved Step Lower than initially recommended by Department
LOS=Recommended/Approved Step Lower than initially recommended by Department and an off-scale

Table II: SUMMARY OF MERIT ACTIONS

Total Proposed: 223
Total Approved by Chancellor   191
Approval %   86%

Rank	Total	Department Yes	No	Other	Dean Yes	No	Other	CAP Yes	No	Split	AHS	AOS	NOS	ALS	LOS	Chancellor Yes	No	AHS	AOS	NOS	ALS	LOS
Assistant Professor/*PiR	93	91	2		89	3	1	71	7	1			9	4	1	73	6		1	8	3	2
Associate Professor	41	40	1		34	2	5	25	6				6	1	3	25	6		1	5	1	3
Professor	71	65	3	3	57	12	2	45	14			1	8	1	2	45	16			8	1	1
within A/S	9	8	1		8	1		6	3							6	3					
**LPSOE/SOE	9	9			8	1		7	2							2	1		6			
Total Merits	223	213	7	3	196	19	8	154	32	1	0	1	23	6	6	151	32	0	8	21	5	6

Note: does not include advancement to VI or advancement to A/S

Assistant Professor-in-Residence

**Assistant Professor of Teaching/ Professor of Teaching*

TABLE III: SUMMARY OF APPOINTMENTS

Total Proposed: 25
Total Approved by Chancellor   23   1 file pending final decision
Approval %   92%   1 file pending resubmission in the 19-20AY

Rank	Department 18-19 Actions	Dean Yes	No	Other	CAP Yes	No	Other	Chancellor Yes	No	Other
Assistant Professors	5	5			5			4		1
Associate Professors	7	6		1	5		2	6		
Full Professors	6	6			4		1	4		1
LPSOE/LSOE/Sr. LSOE	5	5			4		1	4		1
Assoc & Full Clinical Professors	2	2			2			2		
TOTAL APPOINTMENT ACTIONS	25	24	0	1	20	0	4	20	0	3

Key to Abbreviations:
CAP = Committee on Academic Personnel
CHAN = Chancellor or Executive Vice Chancellor
SPLIT = CAP not clearly positive or negative
AHS= Recommended/Approved Step Higher than initially recommended by Department
AOS= Recommended/Approved OS salary in addition to merit advance recommended by Dept.
NOS= Recommended/Approved merit advance but not additional OS salary recommended by Dept.
ALS= Recommended/Approved Step Lower than initially recommended by Department
LOS=Recommended/Approved Step Lower than initially recommended by Department and an off-scale

TABLE IV: MISCELLANEOUS ACTIONS

Appraisals:
Total Proposed: 27

Fifth-year Appraisals	Decision		
	Positive	Qualified	Negative
CAP	15	10	2
EVC/Chancellor	14	11	2

Career Reviews:
Total Proposed: 10

1	Resulted in no change to rank or step
2	Resulted in a merit of 1 step
5	Resulted in a merit of 2 steps
1	Resulted in a promotion to full professor
1	Resulted in a promotion to full professor plus a merit of 1 step

Quinquennial Reviews:
Total Proposed: 19

Quinquennials	Decision		At Barrier Step	
	Satisfactory	Unsatisfactory	Satis + o/s	Satis no o/s
CAP	6	4	5	4
EVC/Chancellor	5	5	6	3

Reappointment of Assistant Professor/ LPSOE/ Acting LPSOE:
Total Proposed: 9

Reappointments	Decision		
	Yes	No	Split
CAP	8	1	
EVC/Chancellor	9		

LPSOE = Assistant Professor of Teaching

Summary of Actions in Tables I-IV:

Total Merits & Promotions:	274
Total Appointments:	25
Total Misc. Actions:	65
TOTAL PERSONNEL ACTIONS	**364**

Table V: SUMMARY OF OFF-SCALE SALARIES APPROVED BY CHANCELLOR (OR DESIGNEE)

New off-scale awards were distributed as below for each college or school:

College/School	Merit Based	Appointment
CHASS	18	11
CNAS	14	3
BCOE	6	2
BUSINESS	3	1
GSOE	3	1
SoM	1	0
SPP	1	1
Totals	46	19

Total o/scales awarded =   65

COMMITTEE ON CHARGES
ANNUAL REPORT TO THE RIVERSIDE DIVISION
December 3, 2019

To be received and placed on file:

The primary function of the Committee on Charges is to receive in writing, through the Chancellor or Chancellor's designee, unresolved complaints regarding Faculty conduct, as per procedures described in UCR Division Bylaw 8.7, SBL336 and UCR Division Appendix 5. The Committee may also be asked to opine on proposed revisions to Bylaws and Regulations which may be related to the charge of the committee.

The Committee on Charges completed its review of four cases and forwarded its decisions to the Chancellor's designee, the Vice Provost of Administrative Resolution.

In addition to review of faculty conduct cases, the Committee on Charges is also asked on occasion to comment on System-wide and Campus Policies. To that end, the 18-19 Committee on Charges responded to documents describing proposed revisions to the Presidential Policy on Sexual Violence and Sexual Harassment, Senate Bylaw 336, Sexual Violence Sexual Harassment Academic Frameworks, and UCR Appendix 5.

        G. Gonzalez
        S. Currie
        R. Smith
        A. Goldberg
        G. Xu
        H. Liu
        T. Close, Chair

COMMITTEE ON COMMITTEES
ANNUAL REPORT TO THE RIVERSIDE DIVISION
DECEMBER 3, 2019

<u>To be received and placed on file:</u>
The Committee on Committees reports the following 18-19 appointments made since the last report of December 4, 2018:

- Provided 16 slates of nominees to the Chair of the Riverside Division for faculty to serve on various administrative committees.

- Provided a slate of 5 nominees to the Chair of the Riverside Division for faculty to serve on the Assistant Vice Chancellor for Health, Counseling and Wellness Search Committee.

- Provided a slate of 5 nominees to the Chair of the Riverside Division for faculty to serve on the Associate Vice Chancellor and Chief Human Resources Officer Search Committee.

- Provided a slate of 6 nominees to the Chair of the Riverside Division for faculty to serve on the Vice Chancellor for Research and Economic Development Search Committee.

- Provided a slate of 5 nominees to the Chair of the Riverside Division for faculty to serve on the Director for the Center of Teaching and Learning Search Committee.

- Provided a slate of 6 nominees to the Chair of the Riverside Division for faculty to serve on the Vice Provost of Administrative Resolution Search Committee.

- Provided a revised slate of 6 nominees to the Chair of the Riverside Division for faculty to serve on the Associate Vice Chancellor for Student Affairs and Dean of Students Search Committee.

- Appointed 20 Senate faculty members to serve on the General Education Review Committee.

- Revised appointments of the Senate Faculty members to serve on the General Education Review Committee.

- Revised appointments of the Senate faculty members to serve on the ad hoc committee to review Student Evaluation of Teaching.

- Revised appointments of the Senate faculty members to serve on the ad hoc committee on Remote Learning, "Hybrid," and Online Courses.

- Provided nominations for 18 requests from the systemwide University Committee on Committees.

In addition to appointments, the Committee on Committees considered systemwide reviews for proposed changes to the Presidential Policy on Sexual Violence and Sexual Harassment, Senate Bylaw 336, and the Sexual Violence Sexual Harassment Academic Frameworks

Respectfully Submitted,

Sarjeet Gill, Molecular, Cell and Systems Biology, Chair
       Shan-Wen Tsai, Physics and Astronomy
       Isgouhi Kaloshian, Nematology
       Victor Rodgers, Bioengineering
       Tamara Ho, Gender and Sexuality Studies
       Wenbo Ma, Microbiology and Plant Pathology
       Peter Chung, Area of Finance
       David Lloyd, English
       Jennifer Najera, Ethnic Studies
       Sonja Lyubomirsky, Psychology
       Marek Chrobak, Computer Science & Engineering
       David Brady, School of Public Policy

To be received and placed on file:

In the 2018-2019 academic year the Riverside Division of the Academic Senate Committee on Courses approved a total of 118 new courses (67 undergraduate, 49 graduate, and 2 professional); changes to 225 Courses (165 undergraduate, 53 graduate, and 7 professional); the deletion of 70 courses (35 undergraduate, 25 graduate, and 10 professional); the approval of priority enrollment for 5 undergraduate courses; and the restoration of 2 undergraduate courses. The Committee also reviewed University Extension proposals for courses offered credit as follows: 1 University Extension XR1-199 course proposal; 2 University Extension XR1-199 instructor proposals; 3 University Extension X1-299 course proposals; and 26 University Extension X1-299 instructor proposals. The Committee reviewed and approved 150 Associate-In requests for the instruction of upper division and graduate level courses.

The Committee notified the following departments and programs of courses in their departments that have not been instructed for 4 or more years: Biology; Business; Computer Science; Electrical Engineering; Entomology; Hispanic Studies; Molecular, Cell and Systems Biology; and Neuroscience. The Committee asked the departments and programs to either delete the courses or submit a justification for their retention. Of the 67 courses identified, the departments and programs submitted justifications for the retention of 46 courses and identified 21 courses to be deleted. Additionally, the Committee discussed concerns that the courses identified for retention by programs and departments continue to not be offered for four or more years. The Committee voted to change the process for NOFY so that if a course on the list is identified on a second and subsequent NOFY review, the course will be automatically deleted in accordance with Bylaw 8.10.4, which gives the Committee authority to delete courses that have not been offered for four or more years.

The Committee reviewed and supported the third revision of the proposed School of Public Policy regulations.

The Committee reviewed the revised Presidential Policy on Sexual Violence and Sexual Harassment, proposed UCR Long Term Academic Catalog, proposed revisions to Senate Bylaw 336, proposed revisions to Sexual Violence and Sexual Harassment Academic Frameworks, proposed new Minor in Medical and Health Humanities, and proposed joint Public Policy BA/MPP 5-Year Combined Degree Program and did not note any concerns relating to the Committee's charge of courses and instruction.

The Committee reviewed the Provost's Taskforce for Hybrid and Online Education and noted concern that the report presented a one-sided view to support online education and did not accurately represent the campus community's views on online education. The Committee was further concerned that explanations were not provided to justify the proposed actions for online education at UCR and recommended that additional research be conducted. The Committee also noted concern that the model group of universities in the report do not have meaningful overlap with UCR and thus do not provide models that are appropriate for the campus to follow. The Committee was supportive of the report's attention to core infrastructure issues.

The Committee continued discussions on the issue of instructors requiring students to purchase access to homework websites that students are not informed of when registering for the course. The Committee consulted with the Registrar and learned that information regarding the requirement of the use of homework website and the fee to use it can be included in the schedule of classes and the required

payment can be assessed as a Course Material Fee that would be eligible to be funded by financial aid. The Committee sent a memo to all department and program chairs with these recommendations. Additionally, the Committee recommended that departments and programs that require homework websites consider purchasing a site license to allow students to utilize the websites without paying a fee.

The Committee reviewed a request for guidance from the Registrar to determine if students should be allowed to enroll in a course that was previously designate with a V and not considered equivalent and to receive credit for the course or if credit should be given for both courses. The Committee supported that students should be permitted to enroll in a course that they had already taken with a V designation and receive credit for the course once as the courses were determined to be equivalent after the removal of the V designation.

The Committee reviewed a proposal from Mathematics to award credit for MATH 9C to students with an AP calculus BC exam score of 4 or 5. The Committee recommended that departments other than Mathematics that require MATH 9C as a prerequisite be advised of the proposed change and given a chance to review the course requirement if needed. In addition, the Committee recommended that the Committee on Educational Policy also review the proposal as it relates to the Committee's charge of undergraduate curriculum.

The Committee reviewed and supported the proposal for a HESA subject code for a one-unit course for the Highlander Early Start Academy.

The Committee welcomed representatives from the Office of Financial Planning and Analysis to a meeting to discuss and review the refinement of the budget model.

The Committee reviewed an emergency request from the Art Department for priority enrollment to be implemented for art majors in ART 001, ART 002, ART 003, and ART 005 for the Winter 2019 and Spring 2019 effective terms. The Committee was supportive of the request with the requirement that course change proposals be submitted in CRS to request priority enrollment for the courses for future quarters.

The Committee reviewed the Senate Chair's request for input on the next UCR strategic plan and recommended that the Committee be consulted with the drafting of strategies related to infrastructure/classroom space, online education, alumni development, intersegmental articulation, transfer students, labs, and upgrades to existing infrastructure. Additionally, it was recommended that campus administration share the proposed key areas of emphasis with the campus community and that the Senate have a consultative role in the development of the plan.

The Committee reviewed the Senate Ad Hoc Committee for Remote Learning, "Hybrid", and Online Courses report and was generally supportive of many of the report's recommendations. The Committee discussed how the recommendations could be integrated into the Guidelines for Remote Learning Courses and began to draft revisions.

The Committee reviewed the WASC report and recommended that the Senate play a key role in how the campus decides to proceed with changes to the assessment of learning outcomes as recommended in the report. The Committee welcomed consultation with the Office of Evaluation and Assessment to ensure that the rigor of courses is maintained with any proposed changes to establish learning outcomes assessment of course curriculum. The Committee welcomed Associate Provost Ken Baerenklau and Director of Evaluation and Assessment Omar Safie to a meeting for a discussion on WASC, assessment, learning outcomes, and course syllabi. The Committee recommended that Associate Provost Baerenklau and Director Safie discuss their proposal of including learning outcomes in syllabi and the assessment of

learning outcomes by course instructors with the College and School Executive Committees.

The Committee reviewed a request from Provost and Executive Vice Chancellor Cindy Larive regarding the distribution of funds for instructional technologies and were supportive of the funding for laptop checkout kiosks and technology for new classrooms in Sproul and Watkins.

The Committee discussed potential revisions to the General Rules and Policies Governing Courses of Instruction and plan to propose changes to the documents during the 2019-2020 academic year.

The Committee invited Representatives from the Registrar's Office (Bracken Dailey, Registrar, and Melinda Miller, Courses Specialist) to attend meetings and wishes to express appreciation for the information and assistance they provided.

Wee Liang Gan, Chair
David Biggs
Elodie Goodman
Marilyn Fogel
Randy Head
Tim Labor
Declan McCole
Zhiyun Qian
ALN Rao
John Wills
Christina Cicchetti, Library Representative
Andy Veliz, ASUCR Representative
Pablo Unzueta, GSA Representative

COMMITTEE ON DISTINGUISHED CAMPUS SERVICE
ANNUAL REPORT TO THE DIVISION
DECEMBER 3, 2019

To be received and placed on file:

The Committee on Distinguished Campus Service met on March 7, 2019 to discuss the candidates for the Distinguished Campus Service award. Professor Georgia Warnke from the Department of Political Science and Ashok Mulchandani from the Department of Chemical and Environmental Engineering was selected as the recipients for 2018-2019.

The nomination was approved at the May 21, 2019 meeting of the Riverside Division of the Academic Senate, at which time the recipients were presented their awards.

L, Walling, Chair
A. Deolalikar
R. Redak
A. Venkatram
J. Wudka

COMMITTEE ON DISTINGUISHED TEACHING
ANNUAL REPORT TO THE DIVISION
DECEMBER 3, 2019

To be received and placed on file:

The Committee on Distinguished Teaching met on March 6, 2019 to discuss the candidates for the Distinguished Teaching award. Professor Thomas Sy from the Department of Psychology was selected as the 2018-2019 recipient. The nominations were approved at the May 21, 2019 meeting of the Riverside Division of the Academic Senate, at which time Professor Thomas Sy was presented their award.

Y. Wu, Chair
G. Beran
K. Borkovich
J. McMullin
S. Straight
A. Boyd GSA
J. Chang ASUCR

COMMITTEE ON DIVERSITY, EQUITY, AND INCLUSION
ANNUAL REPORT TO RIVERSIDE DIVISION
December 3, 2019

To be received and placed on file:

The Committee on Diversity, Equity, and Inclusion (CoDEI) is an important part of faculty governance and collegial responsibility in the University of California system. As a committee of the Riverside Division of the Academic Senate, CoDEI is appointed by the Senate's Committee on Committees and consists of eight members of the Division, including, the Associate Vice Chancellor for Diversity and Inclusion as non-voting ex-officio.

This committee is charged with representing the Division on all matters of diversity, equity, and Inclusion at UCR. It monitors the campus for discriminatory employment practices, retention, and for issues involving diversity and campus climate, and, at its discretion, makes recommendations for improvement in specific practices and general policy. It further serves as a liaison between individuals having concerns related to diversity, equity, and inclusion at UCR and the Division, providing, at its discretion, advice and guidance when requested. It further represents the Division on all matters concerned with student diversity, equity, and inclusion including efforts to monitor and to increase the number of students from underrepresented groups who enter undergraduate, graduate and professional programs.

In addition to reaffirming its Conflict of Interest Statement, the Committee conducted a review of its current bylaws and put forward a proposed change for Senate consideration. Members discussed the current relevance of the committee name and charge and determined them to be outdated and misleading of the committee's broader purpose. The proposed changes intended to provide a more representative committee title and committee charge, through removal of the terms "affirmative action", and "equal opportunity". Broadening the charge to all underrepresented groups and incorporating the "Equity" and "Inclusion" terms will have the effect of representing broader UCR community goals in these areas. The proposed changes were adopted and made effective at the February 26, 2019 Division meeting.

The Committee on Diversity, Equity, and Inclusion met four times during the 2018-2019 academic year and undertook the following actions:

a.   Discussions with Campus Leadership and Recommendations to the Administration
to Senate. CoDEI Request for a Campus Climate Survey
In the academic year 2016/2017 there was a marked exodus of faculty of color, women faculty, and LGBTQ faculty on campus. Unfortunately, CoDEI's request to review the reasons for these separations has not been successful due to the relatively small number of separations and the resulting concerns of lack of anonymity. Despite the lack of concrete data, we suspect that the underlying reason for these separations to be issues of campus climate. As a result, CoDEI requests that Executive Council consider launching a faculty/staff climate survey to investigate how campus climate relates to faculty retention.

to CoC. Information Request Regarding Service Appointments
CoDEI requests a narrative about CoC's process for appointing faculty to standing senate committees and 4-5 years of quantifiable data. A report from CoC would help CoDEI determine

the senate service loads of female and underrepresented faculty at various levels, assess the current makeup of the faculty body to determine needs for hiring appropriate candidates, and determine if there is a need for improving retention efforts. It would be helpful if the report could include the following:

- A narrative of the selection process
- Last 4-5 years of data broken down per year by campus/college/department/rank/gender
- Total pool of female and underrepresented minorities each year
- Any trends or struggles CoC has encountered in appointing members to committees (e.g. reasons for declining, other service obligations, limited faculty pool, etc.)

to ACV-DI Mariam Lam via Senate Chair. re Campus Resource Request

When discussing the systemwide review of the proposed revised policy on sexual violence and sexual harassment, several CoDEI members requested to obtain more information regarding the identification of UCR's non-reporting professionals who are trained and keep matters confidential. Specifically, what are UCR's available resources, how can they be accessed, how are they advertised, and what can CoDEI do to make faculty, staff, and students more aware of the information.

b.   Advice to the Academic Senate

In keeping with its charge to make recommendations for improvement in specific practices and general policy, the Committee considered the following Campus and System-wide reviews:

Campus Review

- Summary White Paper on RUSD STEM High School on UCR Campus
- Appendix 7 Transfer of Program. Transfer of and Changes to the LGBIT Studies Minor Program
- Proposed Regulations. 3rd Round. School of Public Policy Regulations
- Provost's Taskforce for Hybrid and Online Education Final Report
- Proposed Degree Program. 2nd Round. Masters of Science in Business Analytics (MSiBA)
- Proposed Degree Program. 3rd Round. Masters of Science in Business Analytics (MSiBA)
- Consultation. UCR Campus Multi-Year Framework
- Endowed Chair Proposal. Endowed Term Chair for Teaching, Research and Service in CNAS
- Proposal. 2nd Round-Medical and Health Humanities Minor
- Report Review. WASC Commission Action Letter and Report and UCR Response
- Joint Public Policy BA-MPP 5-Year Combined Degree Program
- Proposed Bylaw Change: School of Business A1-A3.1.6: Membership, Meetings, Amendments & Revisions

The Committee offered no comments on the following campus review items:

- Proposed UCR Long Term Academic Calendar
- Bylaw Appendix 5 (5.3.1 and Addition of 5.3.11)
- Thoughts on UCR Strategic Plan

System-wide Review

- Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment
- Executive Summary (Draft) – Report of Task Force on University Policing

- Proposed UC Transfer Admission Guarantee
- Proposed Revisions to SVSH Academic Frameworks
- Senate Regulation 636.E
- APM – 011, Academic Freedom, Protection of Professional Standards, and Responsibilities of Non-Faculty Academic Appointees
- Limited Review of Interim Policy on Responding to Immigration Enforcement Involving Patients on UC Health Facilities

The Committee offered no comments on the following system-wide review items:
- Proposed Revisions to Senate Bylaw 336
- UC Center Sacramento
- Research Grant Program Office – Current State Assessment Report

The Committee's formal response to each issue is located on the Academic Senate website and can be found at: http://senate.ucr.edu/about/issues/2018-2019/

c.   Representation at System-wide Senate and the Executive Council

CoDEI continued its active participation on the system-wide University Committee on Affirmative Action, Diversity, and Equity (UCAADE). The 2018-19 CoDEI representative was Boris Maciejovsky, who updated committee members of the issues under discussion at the statewide level. Chair Maciejovsky also represented the committee on the UCR Academic Senate's Executive Council.

Respectfully submitted,

Boris Maciejovsky, Chair
Philip Brisk
Brandon Brown
Anupama Arun Dahanukar
Xuan Liu
Collen Macnamara
Victoria Reyes
Mariam Lam, Associate Vice Chancellor for Diversity and Inclusion, *Ex-Officio*
Jessica Moronez, GSA Representative
David Melgoza, ASUCR Representative

COMMITTEE ON EDUCATIONAL POLICY
ANNUAL REPORT TO THE RIVERSIDE DIVISION
DECEMBER 3, 2019

To be received and placed on file:

The Committee on Educational Policy (CEP) held nine meetings this academic year. Committee members and the Chair also attended several meetings associated with undergraduate program reviews. Much of the Committee's work, such as the careful study of long and complex documents, was completed outside of these meetings and through e-mail if needed in between meetings. The Chair attended meetings of Executive Council and provided updates to the Committee at each meeting from issues discussed at the local level. The Chair, at the request of the administration and Chair of the Division, attended additional meetings and served on ad hoc committees.

The Chair and several members of the Committee participated in meetings with the WASC review team during their site visit to discuss the assessment of undergraduate programs and learning outcomes.

This year, the Division was well represented on the University Committee on Educational Policy (UCEP) by Owen Long who kept CEP and the Division informed about various items and Systemwide developments of interest to the Committee.

A primary responsibility of CEP is undergraduate program reviews. During the academic year, four CEP subcommittees were established to conduct the external undergraduate program reviews of Art (November 26 & 27, 2018), Biology (March 4 & 5, 2019), Hispanic Studies (January 31 & February 1, 2019), and Neuroscience (April 11 & 12, 2019). One CEP subcommittee was established to conduct the internal review of the Humanities, Arts and Social Sciences major. The Chair of CEP organized and attended Action Implementation meetings with the Vice Provost and Dean for Undergraduate Education (VPDUE), College Dean and Associate Deans, and the Department Chairs for the reviews conducted in the previous academic year for Asian Studies, Gender and Sexuality Studies, Global Studies, and Latin American Studies. CEP implemented an Action Implementation Plan for all four programs and after the receipt of positive Compliance Reports to the Action Implementation Plan the Committee voted to close the Asian Studies, Gender and Sexuality Studies, and Global Studies reviews. Additionally, after receipt of a Compliance to the Action Implementation Plan, the Committee closed the Ethnic Studies review that was conducted in the 17-18 academic year.

The Committee discussed the concern that arose from the review of several interdisciplinary undergraduate programs offered by CHASS that the programs' lack the resources needed to support sustainable futures. The Committee sent a memo to the CHASS Faculty Executive Committee and CHASS Dean with the recommendation that they work together to address the issues and find solutions to support the CHASS interdisciplinary majors.

The Committee will conduct external reviews of the undergraduate programs in Biochemistry, Liberal Studies and Middle East and Islamic Studies and internal reviews of the Ethnic Studies undergraduate program and Chicano Bilingual-Bicultural Studies Minor next academic year. A retreat was held for the programs scheduled for an external review on March 13, 2019 to help them prepare for their upcoming reviews.

The Committee began the process to conduct an internal review of the R'Courses program as it was tasked to do so in the R'Courses Governing Board Policies and Procedures document after the program's fourth year of existence. The Committee requested a self study from the R'Courses Governing Board and will review the submitted document in the Fall Quarter.

The Committee decided to review the University Writing Program as it has never been reviewed and is integral to undergraduate education at UCR. The Committee requested a self study from the program that will be reviewed in the Fall Quarter.

The following is a list of open undergraduate program reviews that CEP is working to close:

AY Review was Conducted:	Program Reviewed:	Current step:
2017-2018	Latin American Studies	CEP to review program's response to Action Implementation Plan at their first meeting in the Fall Quarter.
2018-2019	Art	CEP to hold Action Implementation meeting in the Fall Quarter.
2018-2019	Biology	CEP is awaiting the program's response to the Preliminary Findings and Recommendations report.
2018-2019	Hispanic Studies	CEP is awaiting the program's response to the Preliminary Findings and Recommendations report.
2018-2019	Neuroscience	CEP is awaiting the program's response to the Preliminary Findings and Recommendations report.
2018-2019	Humanities, Arts, and Social Sciences (Internal Review)	CEP to review Preliminary Findings and Recommendations report at their first meeting in the Fall Quarter.

Another important function of CEP is to review and comment on all issues relevant to undergraduate education and occasionally on issues with a more general nature. When warranted, these discussions result in new regulations and policies. Topics discussed and/or acted upon by the committee in consultation with other Senate committees and/or the Administration throughout the year have included:

- The Committee was generally supportive of the proposed charge for a General Education Review Committee. The Committee recommended that language be added to the charge to clarify that the Senate will determine the appropriate mechanism for the assessment of learning outcomes and that the specific number of broad areas of knowledge and pedagogy be removed.

- The Committee welcomed representatives from the Office of Financial Planning and Analysis to a meeting to discuss and provide input on the new budget model.

- The Committee reviewed the summary white paper on the RUSD STEM High School on the UCR campus and noted concern that the white paper does not reflect faculty participation or consultation in the development of the proposal. Concern was also noted that the proposed requirements for the high school could potentially divert resources from undergraduate students at UCR and that the partnership with STEM may limit partnerships with other public high schools.

- The Committee supported the proposed model policy for the awarding of posthumous undergraduate degrees with the recommendation that a student's disciplinary actions at the time of their passing be considered.

- The Committee supported the proposed School of Public Policy regulations, proposed UCR Long Term Academic Calendar, proposed changes to Senate Bylaw 336, proposed UC Transfer Admissions Guarantee, and proposed revisions to the Sexual Violence and Sexual Harassment Academic Frameworks.

- The Committee reviewed the revised Presidential Policy on Sexual Violence and Sexual Harassment and proposed Presidential Policy on Open Access for Theses and Dissertations and did not have any concerns relating to their charge of undergraduate education.

- The Committee welcomed the Dean of University Extension to a meeting to discuss undergraduate programs offered at University Extension.

- The Committee reviewed the Provost's Taskforce on Online and Hybrid Education and noted several significant concerns with the report's methodology and recommendations. The Committee was concerned that the report's conclusion appeared to reflect a presupposed outcome rather than a thorough, multifaceted review of online education nationally and at UCR. The Committee recommended that the Taskforce address the concerns of the Committee in a matter that ensures the process forward is fair and that the Senate be involved in the process at every stage as online education includes the Senate's charge of courses and curriculum.

- The Committee reviewed the UCR Campus Multi-Year Framework and noted great concern with the short time frame given for Senate consultation on the important document. The Committee noted that UCR is ideally positioned for expansion, however the campus and Committee need more time to review the document in order to submit a thorough response.

- The Committee supported the proposal from the Department of Mathematics to award credit for Math 9C to students with an AP Calculus BC Exam Score of 4 or 5 with the recommendation that departments other than Mathematics that require MATH 9C as a prerequisite requirement for the course be given a chance to review the proposal.

- The Committee reviewed the Senate Chair's request for input on the next UCR strategic plan and recommended that the Senate be involved in the process of drafting the next plan along with a balanced representation from the Colleges and Schools. The Committee recommended that an assessment of the 2020 strategic plan be completed to determine if strategies were achieved. Additionally, the Committee recommended that a key area of emphasis to be included in the next strategic plan is attention to the campuses projected growth including attention to teaching and research space, infrastructure, and the physical plant. Other recommended key areas of emphasis by CEP included online education and recommendations from the WASC report related to assessment.

- The Committee reviewed a request from the Vice Provost for Administrative Resolution to consider a review of the campus Academic Integrity Executive Committee bylaws in Riverside Appendix 6.4.4. The Committee requested that more information and the context for the request be provided including the challenges facing the Academic Integrity Committee.

- The Committee reviewed the Senate Ad Hoc Committee on Remote Learning, "Hybrid", and Online Education's final report and was not satisfied with the report's definition for a hybrid course as it lacked clarity. The Committee recommended that the campus assess the potential for the establishment of a testing center on campus and recommended that further consideration be made to the reports suggestion that all courses justify delivery methodology and the relationship between activity and credit hours.

- The Committee reviewed the WASC report and was supportive of the recommendation that the review of undergraduate programs should occur at a greater frequency so that programs are reviewed every ten years. However, the Committee contended that in order for CEP to increase the number of reviews the Senate needs to be provided with resources to fund staffing needed to facilitate the increase of reviews, increase the amount of honorariums and travel reimbursements for external reviewers, and add additional members on the Committee to conduct reviews.

- The Committee reviewed the UC Sacramento Review Report and recommended that any change in administrative structure ensure the continued central oversight of the function of the program, appropriate transfer of resources sufficient to ensure all necessary functions, and establishment of a monitoring process to ensure that the program continues to meet Systemwide needs.

- The Committee did not support a proposed regulation from ASUCR regarding the requirement for undergraduates to purchase costly course access codes as it violated faculty members' academic freedom and their right to select tools based on the pedagogical focus of the curriculum to enhance student's learning. The Committee acknowledged that textbook and course material costs are an issue and recommended that faculty continue to select materials with the goal of keeping costs low for students.

- The Committee approved an exception to the 180-unit graduation requirement for a student from CHASS.

CEP also took up a number of matters related to majors, minors and other undergraduate programs.

The Committee discussed the issue of how change of major criteria for undergraduate programs is published to students. The Committee proposed a change to the CEP Guidelines for the Approval of Proposed Changes to Undergraduate Programs to request that all proposed changes to a program's change of major requirements be submitted for review by CEP and documented in the Academic Catalog.

The Committee supported the proposal to transfer the Lesbian, Gay, Bisexual, Intersex and Transgender Studies Minor to the Gender and Sexuality Studies Department. The Committee was also supportive of the change of the minor's name to Queer Studies and the change of the name of the Minor in Gender and Sexuality Studies to Feminist Studies.

The Committee voted to support the proposal to transfer the Pre-Business program from CHASS to BUSINESS to establish a 4-year undergraduate major in BUSINESS.

The Committee supported the revised proposal for a new Minor in Medical and Health Humanities with the recommendation that the program consider renaming the minor's proposed curricular streams so that they demonstrate the academic rigor of the program.

The Committee supported the proposal for a new B.S. in Data Science with the recommendation that the program consider adding an experimental sciences sequence of courses to the curriculum for the program's first year of course work to help students understand the background of the discipline of Data Science.

The Committee reviewed the proposed new Minor in Athletic Leadership from GSoE and had several concerns with the proposal. The Committee recommended that the School update the proposal to include the pedagogical focus of the minor and how it will benefit students in future careers. Additionally, a recommendation was made for additional letters of support from external groups and internal groups at UCR that have similar leadership programs. The Committee also recommended that the minor be

established as an interdisciplinary program as the curriculum of the program include areas from across disciplines. The Committee noted concern that one GSoE faculty member will be the instructor for the majority of the required courses and recommended that the proposal be updated to include a discussion of additional faculty support for the minor and plan for who will instruct the required courses if the faculty member goes on leave.

The Committee reviewed a program change from the Philosophy Department to add an honor's track to their major and recommended to the department that they consult with the University Honors program to learn how the proposed departmental honors program will articulate with the University Honors program.

The Committee supported the proposal for a joint Public Policy BA/MPP 5-Year Combined Degree Program with the recommendation that the professional development requirement for graduate students be included in the proposed curriculum.

The Committee approved a proposal from BUSINESS to remove the Administrative Studies program from the catalog and a proposal from CHASS to add the Administrative Studies program to their section of the catalog.

The following proposed changes to curriculum were discussed, approved and reported to the Division:

Approved Curriculum Changes from BCoE:
BS in Chemical Engineering
BS in Computer Engineering
BS in Computer Science
BS in Computer Science with Business Applications
BS in Materials Science and Engineering
BS in Mechanical Engineering
BS + MS in Electrical Engineering
Minor in Computer Science

Approved Curriculum Changes from BUSINESS:
BA in Business Administration
Minor in Business Administration

Approved Curriculum Changes from CHASS:
BA in Business Economics
BA in Economics
BA in Economics/Administrative Studies
BA in Economics/Law and Society
BA in English
BA in History
BA in Political Science
BA in Political Science/Administrative Studies
BA in Political Science/International Affairs
BA in Political Science/Public Service
Minor in Anthropology
Minor in Economics
Minor in Feminist Studies
Minor in History
Minor in International Relations
Minor in Political Science

Minor in Queer Studies

Approved Curriculum Changes from CNAS:
BS in Biology
BS in Environmental Sciences
BS in Microbiology

Approved Curriculum Changes from GSoE:
BA in Education, Society and Human Development
Minor in Education

The Committee's members are to be commended for their close attention to a broad spectrum of matters concerning educational policy and undergraduate education and their genuine concern for student welfare.

Paul Lyons, Chair
Ruhi Khan, Vice Chair
Owen Long, Representative to UCEP
Gareth Funning
Randy Head, Committee on Courses Representative
Jean Helwege
Goldberry Long
Anand Ray
Rebekah Richert
Vassilis Tsotras
Stefano Vidussi
Linda Walling
Qingfang Wang
Jason Weems
Joel Sanchez, ASUCR Representative
Arielle Manganiello, GSA Representative

EXECUTIVE COUNCIL
ANNUAL REPORT TO THE RIVERSIDE DIVISION
December 3, 2019

To be received and placed on file:

This Executive Council report lists items reviewed and actions taken in meetings held from October 2018 through June 2019.

Each Executive Council meeting included a report from Chair Dylan Rodríguez on issues reviewed at Academic Council meetings, the Chancellor's meetings, Provost's meetings, and other critical issues raised by the faculty or the administration. Chair Rodríguez also gave regular updates on the various subcommittees on which he serves in his capacity as the Chair of the Senate.

At its first meeting of the year, Executive Council revised and approved its Conflict of Interest statement and noted as "Received" the Conflict of Interest Statements from Senate Standing Committees and Faculty Executive Committees at remaining meetings as they were submitted. Throughout the year, both internally and with Administration, Executive Council discussed UCR's next Strategic Plan and Long-Range Development Plan.

Issues considered and/or actions taken by the Executive Council include the following:

Bylaw, Regulation & Guideline Item
The Executive Council received or reviewed the following Legislative requests:

Changes to Charge of the Committee on Diversity and Equal Opportunity (Bylaw 8.6, 8.6.2, 8.6.3)

Bylaw Change: 4th Round: School of Public Policy Bylaw Change PP1.2, PP4.1, PP4.1.6-Voting and Membership

3rd Round: School of Public Policy Regulations

Bylaw Change: Proposed changes to Bylaw GR 1.2Standards of Scholarship and Disqualification

Bylaw Change: CNAS Bylaw N1.2 Membership: to Specify Cooperative Extension Specialist as Eligible to Attend

Bylaw Change: 3rd Round Proposed Changes to Bylaw GR 1.2 Standards of Scholarship and Disqualifications

Bylaw Revision: Bylaw Appendix 5 (5.3.1 and Addition of 5.3.11)

Systemwide Review Items

Proposed Revisions to Presidential Policy BFBBUS-46 (Use of Vehicles and Driver Selection policy)

Principles of Accountability with Respect to Financial Transactions

Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment

Proposed Revised Policy: Proposed Revisions to Presidential Policy BFB-RMP-7 Protection of Administrative Records Containing Personally Identifiable Information

Proposed Revisions to Presidential Policy BFB-BUS-46 (Use of Vehicles and Driver Selection policy)

Executive Summary (Draft) – Report of Task Force on Policing

Second Systemwide Review of Proposed Presidential Policy on Open Access for Theses and Dissertation

Proposed Revisions to Senate Bylaw 336

Proposed Revision to Sexual Violence and Sexual Harassment (SVSH) Academic Frameworks

Proposed UC Transfer Admission Guarantee

Memorial to the Regents: Fossil Fuel Divestment

APM - 011, Academic Freedom, Protection of Professional Standards, and Responsibilities of Non-Faculty Academic Appointees

Proposed Regulation Revision: Senate Regulation 636.E - University's Entry Level Writing Requirement (ELWR)

Interim Policy: Limited Review of Interim policy on Responding to Immigration Enforcement Involving Patients on UC Health Facilities

Collaboration of UCSF Health with Dignity Health

UC Center Sacramento

Research Grant Program Office - Current State Assessment Report

Campus Level Review and Other Discussion Items

Proposed Changes to Implementation Procedures for the Health Sciences Compensation Plan

eFilePlus

Long Range Development Plan (LRDP) Proposed Governance Structure

Committee on Faculty Welfare's memo regarding campus climate

Budget Model Refinement Survey (Draft)

Transfer of and Changes to the LGBIT Studies Minor Program

Proposed Model Systemwide Policy for the Awarding of Posthumous Undergraduate Degrees

Report Review - Summary White Paper on RUSD STEM High School on the Campus of the University of California, Riverside

UCR Campus Multi-Year Framework

Consultation: Proposed UCR Long Term Academic Calendar

Proposed Renaming of the Citrus Variety Collection to the Givaudan Citrus Variety Collection at the University of California, Riverside

Consultation: Extension of Exception to APM 275-16-f (3) Restrictions: 1/6 Limitation on Appointment to Professor of Clinical X Series

Proposed Amendment to Scholars at Risk Program Procedures

Provost's Taskforce for Hybrid and Online Education Final Report

Proposal to Award Credit for Math 9C to Students with AP Calculus BC Exam Score of 4 or 5

Department Name Change – Earth Sciences to Earth and Planetary Sciences

Endowed Term Chair for Teaching, Research and Service in CNAS

Catalog changes Regarding the Proposed Transfer of and Changes to the LGBIT Studies Minor Program

Naming Request – MRB 4144 to Collaboration Space in Memory of Ron and Jeanne Sladek

Committee on Faculty Welfare Climate Survey

Change of Major Criteria for Undergraduate Majors

 2nd Round – Medical and Health Humanities Minor proposal

3rd Round – Master of Science in Business Analytics (MSiBA) proposal

New Undergraduate Major in Data Science proposal

Online Instruction component of GEO 007 (Minerals and Human Health) in the Department of Earth & Planetary Sciences

WASC Commission Action Letter and Report and UCR Response

Proposed Additions to CEP Guidelines

The following guests were received by Executive Council:

Ann Cheney, Wellness Program Faculty Ambassador
Begoña Echerverria, Member, Committee on Faculty Welfare
Bracken Dailey, Registrar
Christine Victorino, Associate Chancellor
Cindy Larive, Provost & Executive Vice Chancellor
Cynthia Alvarez, Innovation Alliance Fellow
Elizabeth Heise, American Council on Education Fellow
Ertem Tuncel, Graduate Division Associate Dean
Gerry Bomotti, Vice Chancellor for Planning & Budget
Jennifer Brown, Vice Provost & Dean for Undergraduate Education
Julie Chobdee, Wellness Program Coordinator
Kara Oswood, Graduate Division Director of Academic Affairs Kara Oswood
Ken Baerenklau, Associate Provost
Kiersten Boyce, Associate Vice Chancellor and Chief Compliance Officer

Kim Wilcox, Chancellor
Kum-Kum Bhavnani, Academic Vice Chair
Mary Droser, STEM H.S. Liaison for the Provost
Matthew Hull, Associate Vice Chancellor for Planning & Budget
Richard Cardullo, UCR WASC Accreditation Liaison Officer
Robert May, Academic Council Chair
Shaun Bowler, Graduate Division Dean Shaun Bowler

Respectfully submitted by,

Professor Dylan Rodríguez (Media & Cultural Studies), Chair
        Professor John Cioffi, Vice Chair (Political Science)
        Professor Kevin Esterling, Secretary/Parliamentarian (Political Science)
        Professor Manuela Martins-Green, Assembly Representative (MCSB)
        Professor Thomas Cogswell, Assembly Representative (History)
        Professor Boris Maciejovsky, Diversity, Equity, & Inclusion (School of Business)
        Professor Daniel Jeske, Faculty Welfare (Statistics)
        Professor David Volz, Undergraduate Admissions (Environmental Sciences)
        Professor Deborah Willis, Preparatory Education (English)
        Professor Djurdica Coss, Research (Biomedical Sciences)
        Professor Jason Stajich, Graduate Council (Microbiology & Plat Pathology)
        Professor Jiayu Liao, Library and Information Technology (Bioengineering)
        Professor Katherine Kinney, Planning and Budget (English)
        Professor Paul Lyons, Educational Policy (School of Medicine)
        Professor Rajiv Gupta, Academic Personnel (Computer Science & Engineering)
        Professor Sarjeet Gill, Committees (MCSB)
        Professor Thomas Kramer, Physical Resources Planning (School of Business)
        Professor Jean Helwege, BUSINESS Executive Committee (School of Business Administration)
        Professor Johannes Endres, CHASS Executive Committee (History of Art)
        Professor Louis Santiago, CNAS Executive Committee (Botany & Plant Sciences)
        Professor Margaret Nash, GSOE Executive Committee (Graduate School of Education)
        Professor Maurizio Pellecchia, SOM Executive Committee (School of Medicine)
        Professor Steven Brint, SPP Executive Committee (School of Public Policy)
        Professor Thomas Stahovich, BCOE Executive Committee (Mechanical Engineering)
        Cherysa Cortez, Executive Director

FACULTY RESEARCH LECTURER COMMITTEE
ANNUAL REPORT TO THE DIVISION
DECEMBER 3, 2019

To be received and placed on file:

The Faculty Research Lecturer Committee met on March 6, 2018 to discuss the candidates for the Faculty Research Lecturer award. Distinguished Professor Bir Bhanu from the Department of Electrical and Computer Engineering was selected for the 2020 Faculty Research Lecturer award. This nomination was approved at the May 21, 2019 meeting of the Riverside Division of the Academic Senate.

Distinguished Professor Aman Ullah from the Department of Economics delivered the 2018 Faculty Research Lecture on Friday, June 4, 2019. The lecture was titled "In Search of the Unknown "True" Model: Data-Based Nonparametric Econometrics".

J. Fischer, Chair
C. Cranor
A. Raikhel
D. Reznick
R. Russell

COMMITTEE ON FACULTY WELFARE
ANNUAL REPORT TO THE RIVERSIDE DIVISION
December 3, 2019

To be received and placed on file:

The Committee on Faculty Welfare (CFW) is an important part of faculty governance and collegial responsibility in the University of California system. As a committee of the Riverside Division of the Academic Senate, Faculty Welfare is appointed by the Senate's Committee on Committees and consists of twelve members, two of whom are emeriti/ae professors. It is the duty of this Committee to report to the Division on any and all matters of faculty welfare. The Committee is also responsible for the award process of the Dickson Emeritus/a Professorship.

In addition to reaffirming its Conflict of Interest Statement and conducting a review of its bylaws, the Committee considered inquiries from the campus at large concerning various topics:
- Faculty salaries
- Skateboard policies
- Police Advisory Board
- Chancellor review
- Budget model modifications
- Long Range Development Planning
- eFilePlus
- Formal procedures involved in handling SVSH cases
- Joint department voting rights
- Faculty engagement with Healthy Campus Initiative and programs
- Faculty's role in campus health
- Transportation and Parking Services
- Faculty Equity Advisor program at UCR

The Committee on Faculty Welfare met nine times during the 2018-2019 academic year and undertook the following actions:

a.   Edward A. Dickson Emeritus/a Professorship
The Edward A. Dickson Emeritus/a Professorship Award is presented annually to an emeritus/a professor on the basis of a compelling project in teaching, research, or public service activities. Awardee(s) shall be known as the Edward A. Dickson Emeritus/a Professor for the duration of the award (one year) and receive up to $6,000 monetary award and up to $3000 research support, subject to all policies and requirements of the University of California and the Riverside Campus.

Edward A. Dickson served as a regent of the University of California from 1913-1946, the longest tenure of any Regent. His vision is credited with helping to make the Los Angeles campus a reality. In 1955 Mr. Dickson presented the University with an endowment to provide for annual special professorships for retired faculty.

In 2003 the funds for the Dickson award were separated into ten endowments, one dedicated to each campus. The responsibility for making the awards was delegated to the Executive Vice Chancellor or chief academic officer at each of the ten campuses. On the UCR campus, award oversight and evaluation is performed by the UCR Academic Senate Committee on Faculty Welfare.

The Committee on Faculty Welfare discussed the candidates for the Edward A. Dickson Emeritus/a Professorship and selected three recipients. Professor Emeritus Carlos Cortes in the Department of History, Professor Emeritus Howard Friedman in the Department of Psychology, and Professor Emeritus Johnathan Turner in the Department of Sociology have been named a 2019-20 Edward A. Dickson Emeritus Professor on the Riverside campus. They will hold the title "Edward A. Dickson Emeritus Professor" from July 1, 2019 through June 30, 2020.

b. Discussions with Campus Leadership and Recommendations to the Administration
to Senate. re Initiating a Public Records Request
It was suggested by one Faculty Welfare Committee member that a senate committee should make a public records request for "any document from the University of California's Office of the President pursuant to the whistleblower protection investigation related to James Sandoval." The motivation behind this idea is to make visible efforts to ensure that no information has been kept from the campus community about who knew what and when they knew it. While all members of FWC support the desire for full disclosure of all facts that are publicly available in this case, some members were less convinced that this line of inquiry should come from FWC. As such, it was unanimously agreed our best course of action is to offer the idea to executive council for their discussion and their opinion on what a suitable next step might be.

to Senate. FWC Recommendation for a Campus Climate Survey
The Faculty Welfare Committee recommends conducting a climate survey similar to the one carried out in 2014 by Rankin & Associates, Consulting. In the nearly 5 years since that survey, the campus has seen significant growth, significant turnover in campus administration, and significant change in its portfolio of challenges. We believe it is appropriate to survey the faculty, staff and students to measure important dimensions of our campus culture. We request that Executive Council take up a discussion on the merits of our recommendation, and if it concurs that conducting the survey is a good idea, discuss further who might be responsible for designing and administering the survey, and in what time frame.

UCR Faculty Climate Survey, 2019
A survey was developed by UCR's Academic Senate Committee on Faculty Welfare to assess the overall climate of UCR. It was developed by the faculty for the faculty. The survey was comprised of questions on seven topics, to which faculty could provide numeric ratings and/or narrative answers: Research; Teaching; Advising/Mentorship; Service; Equity; Campus Climate; Leadership and Governance. This survey was administered by the Academic Senate Committee on Faculty Welfare. The FWC will analyze the data with the help of selected graduate students if needed, and the survey's main findings (in the aggregate) will be posted on the senate website.

This report will not include any identification of individual respondents or responses. No one else at the University, including the administration, will have access to the responses.

to Chair Rodriguez. Committee's thoughts on UCR Strategic Plan

1. **What do you envision as an effective and thoughtful <u>process</u> for creating the next UCR strategic plan?**
   FWC supports active involvement by the senate, rather than what might otherwise be a passive review role.

2. **Are there <u>key areas of emphasis</u> that your committee would suggest be included in the strategic plan?**
   FWC discussed several areas that should be given considerable thought:
   - A post-mortem assessment of the progress toward the stated 2020 goals, and a discussion of unanticipated problems that resulted from working toward those stated goals.
   - A description of when and how progress toward 2030 goals will be assessed.
   - Achieving the right mix of undergraduate and graduate students
   - Achieving the right size for class, discussion and lab sections. To what extent are section enrollment caps in line with other campuses? How many students/sections constitute a full workload TA?
   - Improving the competitiveness of graduate student support packages
   - Articulation of the motives and quality standards for online courses, including where the revenue from these courses should go. Ladder faculty in departments who have these professional programs should have a say in where those funds are directed.
   - A student growth plan that has rationale beyond following orders from Sacramento. To address the challenges posed by the increasing gap between educational preparedness, growth plans should include increased support of resources to tackle this issue.
   - Sound growth strategies and fiscal plans for the professional degree programs

3. **Are there <u>specific contributions</u> your committee would like to make in the drafting of the strategic plan?**
   FWC expresses interest in reviewing drafts of the proposed strategic plan, and in providing assistance with measuring the impact and consequences of the 2020 strategic plan.

4. **Does your committee wish to offer any other ideas or input on the strategic plan process, rubric, or anticipated content?**
   - Realistic costs for proposed initiatives together with a realistic plan for where the needed funds will come from
   - Transparent plan for how development funds will be invested in the campus

to Chair Rodriguez. Academic freedom and the faculty's right to participate in boycott movements

The Faculty Welfare Committee (FWC) discussed the right of faculty to participate in boycott movements. FWC is unanimous in believing faculty should feel free to express their views through boycotts. The committee feels the Chancellors overstepped when they wrote a letter about their collective personal thoughts as if those thoughts reflected the entire UC community. The committee believes this was a mistake without any particular motive, and that by now the

Chancellors see that the letter improperly circumvented shared governance. It might calm a lot of angst if they were to acknowledge that.

to Administration via Senate Chair. re Salary Inequity
Efforts to close the gap between UC system wide faculty salaries and the comparison 8 institutions have narrowed that gap from 8.4% to 6.4%. However, campus to campus variability in the gap is quite extraordinary. UCB and UCLA are generally on the plus side compared to the comparison 8, while UCR lags behind by 18% at the Assistant Professor rank, 20% at the Associate Professor rank, and 23% at the Full Professor rank. Campus-to-campus variability in faculty salaries can be seen as another type of salary inequity. This inequity is exacerbated when only specific Chancellors supplement system wide scale increases with off-scale increases. Those campuses not participating are further disadvantaged because the off-scale adjustments at specific campuses further close the average system wide gap (the only metric people are looking at) without benefitting the entire system wide faculty.

There is an argument that coastal campuses should have higher compensation packages for faculty due to the relative cost of housing expenses. Off-scale salary adjustments are not a good way to address this issue. Faculty salaries are intended to reflect merit and an 'equal pay for equal merit' value system. We note that APM 190 provides for housing allowances as well as attractive mortgage options, and individual campuses provide alternative lower cost housing communities for faculty. To some extent, a higher cost of living should be expected in return for the upside of living in the coastal communities. The Faculty Welfare Committee requests priority be given at UCR for participating in an off-scale salary adjustment to avoid our campus falling further behind our peer campuses in merit-based pay. The larger the disparity between campuses, the more it would seem that the UC system is not a system after all, but instead a collection of 'haves' and 'have nots.' Aside from the injustice of being a 'have not,' UCR becomes vulnerable to having their stellar faculty lured away by the 'haves.'

c.   Advice to the Academic Senate
In keeping with its charge to opine on matters pertaining to faculty welfare, the Committee considered the following items received for Campus and Systemwide review:

Campus Review
- Summary White Paper on RUSD STEM High School on the UCR campus
- 3rd Round: School of Public Policy Regulations
- Provost's Taskforce for Hybrid and Online Education Final Report
- Proposed UCR Long Term Academic Calendar
- Extension of Exception to APM 275-16-f(3) Restrictions: 1/6 Limitation on Appointment to Professor of Clinical X Series
- Endowed Term Chair for Teaching, Research and service in CNAS
- Bylaw Appendix 5 (5.3.1 and Addition of 5.311)
- UCR Campus Multi-Year Framework

System-wide Review
- Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment
- Proposed Revisions to Presidential Policy BFB-RMP-7 Protection of Administrative Records Containing Personally Identifiable Information
- Proposed Revisions to Presidential Policy BFB-BUD-46 (Use of Vehicles and Driver Selection Policy)
- CORRECTION: Proposed Revisions to Presidential Policy BFB-BUD-46 (Use of Vehicles and Driver Selection Policy)
- Proposed Revisions to Senate Bylaw 336
- Executive Summary (Draft)-Report of Task Force on University Policing
- Proposed UC Transfer Admission Guarantee
- Proposed Revisions to SVSH Academic Frameworks
- APM – 011, Academic Freedom, Protection of Professional Standards, and Responsibilities of Non-Faculty Academic Appointees
- Limited Review of Interim Policy on Responding to Immigration Enforcement Involving Patients on UC Health Facilities
- Research Grant Program Office – Current State Assessment Report
- APM – 230, Visiting Appointments

The Committee's formal response to each issue is located on the Academic Senate website and can be found at: http://senate.ucr.edu/about/issues/2018-2019/

d.   Representation at Systemwide Senate and the Executive Council

The Committee on Faculty Welfare continued its active participation on the systemwide University Committee on Faculty Welfare (UCFW). The 2018-19 UCFW representative was Daniel Jeske, who updated committee members of the issues under discussion at the statewide level. Chair Jeske also represented the committee on the UCR Academic Senate's Executive Council.

Respectfully submitted,

Daniel Jeske, Chair
Begona Echeverria
Abhijit Ghosh
Piotr Gorecki
Jacob Greenstein
Marta Hernandez Salvan
Stefano Lonardi
Patricia Morton
Thomas Payne
Caroline Roper
Raymond Russell
Traise Yamamoto
Mark Wiley – GSA Representative
Josiah Davis – ASUCR Representative

To be received and placed on file:

The Graduate Council met ten times during the period of September 2018 through June 2019. Complete records of Council activity are on file in the Office of the Academic Senate.

The Courses and Programs Subcommittee made recommendations and the Council acted on 142 courses; 40 new courses, 69 changed courses, and 33 deleted courses.

Requests for changes in requirements for graduate programs were reviewed and approved for the following programs:

- Economics
- MSOL (2)
- Sociology
- English (2)
- Music
- Psychology (2)
- Joint Doctoral Program in Evolutionary Biology (SDSU)
- GSOE (3)
- School of Business (5)
- Entomology
- Creative Writing & Writing for the Performing Arts
- Electrical & Computer Engineering
- Microbiology & Plant Pathology
- Religious Studies
- Biophysics
- Computer Science & Engineering
- Political Science
- Physics & Astronomy
- Statistics
- Master's in Public Policy

The Graduate Council reviewed a UNEX certificate program proposal.

The Graduate Council Fellowship Subcommittee met three times to evaluate the following:

1) Dissertation/Master's Thesis Research grant applications. The subcommittee reviewed 62 Dissertation and Master's Thesis Research Grants and awarded 15 amounting to $11,633.80. The number of applications received and reviewed represents a 2.5-fold increase from the previous year.

2) Earle C. Anthony Travel award applications. The subcommittee reviewed 63 applications and awarded 14 Travel awards amounting to $14,249. This represents a 3-fold increase in applications and twice the amount awarded than in 2017/18.

3) In March 2019 the subcommittee reviewed a total of 41 applications and provided rankings to the Graduate Division Dean for the following:

   a) Graduate Division Graduate Research Mentorship Program (GRMP) – 13 applications

   b) Dissertation-Year Programs (DYP) Fellowship Program – 28 applications

   6 competitive DYPs were awarded, 3 of them were allocated as DYFAs. 13 GRMPs were awarded. In addition, 93 quarters of DYPs were allocated to programs. DYPs and GRMPs awards amounted to $1,468,001 supporting 102 students for 124 quarters in their 3-7 years of PhD.

4) In May 2019, the subcommittee reviewed 11 nominees for the 2019 Doctoral Dissertation Advisor/Mentoring Award and selected one recipient, Professor of Electrical & Computer Engineering, Amit Roy Chowdhury.

The Graduate Council concluded its regularly scheduled review of the MBA graduate program as well as internal reviews of Biochemistry & Molecular Biology, Bioengineering, Computer Engineering, Creative Writing & Writing for the Performing Arts Low Residency program (Palm Desert), Master of Finance, Master of Professional Accountancy, Master of Science in Engineering (online), and Professional MBA.

Graduate Council discussed the program responses, corresponded with, and voted to close out three of the reviews conducted in 2018/19 for the following graduate programs: Computer Engineering, Creative Writing & Writing for the Performing Arts Low Residency program (Palm Desert), and Bioengineering.

Graduate Council hosted two Graduate Program Review Retreats in the Spring. The purpose of the Retreats are to prepare the programs scheduled for review in 2019/20 for the review process. Retreats will be held each Spring for programs being reviewed the following academic year.

Additionally, the following actions were taken by the Graduate Council during 2018/19:

- At its first meeting of the academic year, the Council adopted a statement regarding possible conflicts of interest by its members. (Sept. 2018).

- Provided feedback on the draft Research Integrity and the Responsible Conduct of Research checklist.

- Reviewed, suggested modifications, and approved Graduate Regulation 1.2 – Standards of Scholarship and Disqualification.

- Worked with Planning & Budget to draft and finalize a memo to administration regarding self-supporting programs on campus.

- Reviewed and ruled on a research integrity appeal.

- Select Graduate Council members met with WASC representatives during their visit to campus in the Fall.

Graduate Council discussed and responded to the following requests for review and input received by Academic Senate Chair Dylan Rodriguez:

- School of Business Bylaw change

- School of Public Policy regulations

- Extension of Exception to APM 275-16-f(3) Restrictions: 1/6 Limitation on Appointment to Professor of Clinical X Series

- Transfer of BS Degree in Business Administration to the School of Business

- Proposed UCR Long Term Academic Calendar

- Department name change – Earth Sciences

- Thoughts on UCR Strategic Plan

- Transfer of and Changes to LGBIT Studies Minor

- Proposed Presidential Policy on Open Access for Theses and Dissertations

- Proposed Revisions to Senate Bylaw 336

- WASC Commission Action Letter and Report and UCR Response

- Proposed UC Transfer Admission Guarantee

- Provost's Taskforce for Online Education – Final Report

- UC Center Sacramento – report review

- Proposed Degree Program – Master of Science in Business Analytics (3rd round)

- Proposed Degree Program – Master of Science in Business Analytics (2nd round)

- Revised Presidential Policy on Sexual Violence & Sexual Harassment (SVSH)

- Joint BA-MPP 5-year Degree Program – Public Policy

- Proposed Revisions to SVSH Academic Frameworks

Respectfully Submitted,

Jason Stajich, Microbiology & Plant Pathology, Chair
Hyle Park, Bioengineering, Vice Chair & CCGA Representative
Subramanian Balachander, Business
Meng Chen, Botany & Plant Sciences
John Ellison, Physics & Astronomy
Josh Emmons, Creative Writing
Byron Ford, School of Medicine, Fellowships Subcommittee Chair
Denver Graninger, History
Jang-ting Guo, Economics, Courses & Programs Subcommittee Chair
Erith Jaffe-Berg, Theatre, Film & Digital Production
Eamonn Keogh, Computer Science & Engineering
John Kim, Comparative Literature & Languages, Secretary
Amanda Lucia, Religious Studies
Khaleel Razak, Psychology
Weixin Yao, Statistics
Shaun Bowler, Graduate Dean (ex-officio)
Siddharth Agarwal, Graduate Student Representative (guest)
Shawn Ragan, Graduate Student Representative (guest)

<div style="text-align:center">

Committee on International Education
Annual Report to the Riverside Division
December 3, 2019

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To be received and placed on file:

The International Education Committee of the Academic Senate met three times during the 2018-2019 academic year. Chair Nicole Zur-Nieden was the Systemwide International Education Committee representative and provided updates regarding discussions and issues the committee was reviewing.

<div style="text-align:center">

Review Items & Consultation

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Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment: The committee reviewed the proposed revisions to Senate Bylaw 336. The committee would like to know how this applies to international students and if there are any policies or procedures in place to account for cultural differences and languages barriers.

Proposed Revisions to Senate Bylaw 336: The committee reviewed the proposed revisions to Senate Bylaw 336. The committee would like to know how this applies to international students and if there are any policies or procedures in place to account for cultural differences and languages barriers.

Proposed Revisions to SVSH Academic Frameworks: The Committee on International Education reviewed the prosed revisions to the policy on sexual violence and sexual harassment. The committee discussed the fact that different cultures may have different norms and thus feels that the policy needs to be implemented in a way that encompasses the language and cultural barrier for international students.

The Committee was also tasked to review the administration, and potential transfer of the UC-Mexus initiative. The committee supported the idea of merging the three entities, UC MEXUS, UC-Mexico Initiative and Casa de California. The merged entity should be able to strengthen the existing programs while improving the efficiency of program administration. It is likely that costs can be lowered due to this suggested co-administration. In summary, given the financial benefits to keeping the program at UCR (no additional financial resources required) and the fact that retaining UC-Mexus is consistent with UCR's international focus, status as an HSI and commitment to diversity, as evidenced perhaps most compellingly by the make-up of our student body, based on these materials the committee strongly supports retaining the Mexico programs at UCR.

The Committee received updates from the Office of International Affairs at each meeting that detailed the Office's initiative and ongoing programs.

Nicole Zur Nieden, Chair & UCIE Representative
Nanpeng Eric Yu
Bahram Mobasher
Robert Ream
Heidi Brevik-Zender
Kevin Vaughn, Ex Officio
Kelechi Kalu, Ex Officio
Magid Shirzadegan, Ex Officio
Jean-Bernard Adrey, Ex Officio
Karolyn Andrew, Ex Officio
Kenneth Vongdi, ASUCR Representative
Qiuyang Zhao, GSA Representative

COMMITTEE ON LIBRARY AND INFORMATION TECHNOLOGY
ANNUAL REPORT TO THE RIVERSIDE DIVISION
DECEMBER 3, 2019

To be received and placed on file:

The Committee on Library and Information Technology (LIT) met six times during the 2018-2019 academic year. Following is a summary of Committee activities from September 1, 2018 to August 31, 2019. At the committee's first meeting, the Conflict of Interest statement and 2017-2018 Annual Report were reviewed and approved.

University Librarian, Steven Mandeville-Gamble updated the committee on the following:

- Migration to Ex Libris Integrated Library Management System which may also be integrated UC wide.
- Announcement of retirements in Interlibary Loan and Plans for Continued Operation. Two key staff members of the Interlibrary Loan and Plans for Continued operation retired over the summer. He noted that one of these positions has been replaced and they are planning to move the Interlibrary Loan service counter to the main Circulation counter at the entrance of Rivera Library and to cross-train staff on that desk.
- After the Senate review and with Provost Larive's approval, the OA2020 Expression of Interest was signed on March 14, 2018. 112 scholarly organizations have officially signed the Expression of Interest.
- Elsevier dispute & negotiations: Elsevier is charging the UC Libraries in the high 7/low 8 figure range a year in subscription fees for all UC campuses and charging faculty about $1 million in open access fees on top of what the libraries are paying for subscriptions. Elsevier wants to negotiate commercial deal first, then negotiate open access. If commercial deal is done on Elsevier's terms, open access is gone. Several countries in Europe have walked away from their Elsevier contracts over the past 18 months. After more than a year delay, Elsevier has pulled the plug on Germany and Sweden in earlier negotiations about price & access. Effects not as dramatic as feared (only 5% more faculty demand for E sources). University Librarians are negotiating no double dipping (i.e. charge libraries not the faculty) or if they're going to charge both, reduce the library fees. There needs to be a total reduction in cost.
- Discussed the Elsevier extension thru the end of January. If access to subscribed content were to be shut off after January 31, access to articles published from 2019 forward, as well as a limited amount of historical content (ca. 10%), would no longer be available directly on Elsevier's ScienceDirect platform. The principle delivery mechanism we are putting in to place (should it be necessary) is expedited delivery via ILL/document delivery. Once received and processed by our ILL staff, the article should be delivered within minutes directly to the patron. A Faculty luncheon will be held in February to answer questions and another town hall be held in the future.
- Elsevier has agreed to reduce the costs but wants UC to increase the article pay charges. UC is rejecting the offer and will be walking away from Elsevier. Once this happens, a communication strategy on how to find Elsevier resources will be emailed directly to the faculty. Instructions will be posted on the Systemwide webpage.
- UC is in negotiations with Cambridge University Press since UC has ended negotiations with Elsevier.

- Inter-library loan department will move to the front of the library to make them more accessible.
- The Executive Budget Committee (EBC) of the University of California system is considering a request for an augmentation to the California Digital Library budget to enhance its ability to co-invest with the campus libraries for academic information resources.

AVC Gianforte updated the committee on the recent campus power outages. She noted that UCR has been through 4 power outages in the last 6 weeks, which have caused infrastructural issues and lost hardware. The decision has been made to move the central administrative data center to a Seismic Level 4 commercial data center in Irvine that is currently hosting UCLA Health, UCSD Health and UCI Health data centers.

AVC Gianforte discussed the wireless issues campus has faced and noted that the new Director of Network Operations, Cesar Higueros, has been working to improve the old infrastructure and is currently working on the issues at hand. In the past, several access points had been added to campus that now need to be reconfigured. The goal for spring is to implement guest wireless access without requiring a guest wireless account.

AVC Gianforte noted that in collaboration with the IT Executive Governance (ITEG) committee, they will be formally establishing two technology advisory boards (one for academic technology, one for administrative technology) to further develop their path to "shared governance". She noted that she will be reaching out to the Senate Chair for faculty representation on the Academic Technology Advisory Board (AdTAB).

AVC Gianforte informed the committee that a steering committee is currently being developed to discuss moving the Data Center to Irvine. The charge of the committee is being developed and will be sent to the Senate Chair. They would like to have a representative from the Library committee sit on the steering committee. More details to follow.

Chief Information Security Officer, John Virden, discussed the Multi-Factor Authentication (MFA) implementation. Due to the increasing daily attacks and high visibility theft (2,500-3,000 threats per day and 11,567 successful phishing attacks since January 2018), UCR will be implementing MFA. MFA is a more secure way of logging in where a second step of verifying your identity is used after you type your password. It is a security measure which prevents anyone but you from accessing your account, even they know your password. MFA will affect all faculty, staff and students. It is currently opt-in but, will soon become mandatory in a phased approach.

Staying secure in a connected world is becoming harder every day. MFA provides enhanced security for your account to ensure only YOU can log in. MFA provides added security to your email account and is one of the most important steps you can take to protect your email.

AVC Gianforte informed the committee that a proposal is being written to the Provost and Executive Vice Chancellor to create a division within ITS to focus on Research Computing.

Danna will be providing one FTE and is asking the PEVC to match an FTE to hire a research computing analyst.

The IT Executive Governance Committee recommends that two faculty members sit on the Academic Technology Advisory Board (AdTAB). They meet monthly for 2 hours on the last Thursday of the month. Danna will send invitations to the LIT committee.

Israel Fletes, Director of Educational Technology and Computing Services gave an update on the proposal being written to the Provost and Executive Vice Chancellor to create a division within ITS to focus on Research Computing. This new division will focus on innovation, partnerships with HPC, grant support, training and storage and will focus on the diverse computing needs of the faculty. They also plan to hold seminars once a month focusing on different topics.

AVC Gianforte provided brief updates regarding guest Wi-Fi, UCRWPA transition to UCR Secure, campus wide network upgrades, formalizing disaster recovery protocols, and a 24/7 help desk.

Chief Information Security Officer, John Virden, discussed the IS-3 Electronic Information Security policy resources. The new policy was signed September 7, 2018. The new policy preserves academic freedom and research collaboration, follows risk-based approach to managing security, is based on a standard adopted by many other universities and the units have control to implement information security. This policy applies to all UC campuses, medical centers, UCOP, UCANR, laboratories, all workforce members, suppliers and service providers. The new policy does not apply to non-employed students.

An online version of the new UC Electronic Information Security Policy
https://policy.ucop.edu/doc/7000543/BFB-IS-3

An online UC IS-3 Quick Start Guide by Roles (Click on Unit Head)
https://security.ucop.edu/policies/quick-start-guides-by-role/index.html

Stephanie Flores, Director of Financial Planning and Analysis and Jason Rodriguez, Financial Analyst, presented a power point presentation to the committee on the Budget Model Refinement schedule and opportunities for refinement which include:
- Significant Financial Challenges/Issues
- Overall Policy Issues
- Budget Model Formula and Other Adjustments
- More Technical Issues in the Budget Model

Chair Liao gave the committee an update from the University Committee on Library and Scholarly Communication (UCOLASC) held on October 22, 2018. Topics of discussion were Open Access Publisher Agreements, California Digital Library and Measuring Research Performance and Impact through Academic Analytics, SciVal, Symplectic, and Other Platforms Agenda and minutes can be found at the following link:
https://senate.universityofcalifornia.edu/committees/ucolasc/index.html

Chair Liao noted that the committee also discussed Dryad and other publishing alternatives as well as support programs that provide financial aid for publishing expenses.

Vice Chair Genereux gave the committee an update from the University Committee on Academic Computing and Communications (UCACC) held on October 22, 2018. Topics of discussion were Data Management, Information Technology Services, Cybersecurity and Open Infrastructure/Open Access. Vice Chair Genereux shared the Systemwide Cybersecurity Policy (https://security.ucop.edu/policies/) with the committee and encouraged committee members to review the standards and provide feedback before the next UCACC meeting in February 2019. Agenda and minutes can be found at the following link: https://senate.universityofcalifornia.edu/committees/ucacc/index.html

The committee received a request from the Barnes and Noble campus bookstore. The book currently has a link to their webpage in iLearn under Student Tools. The bookstore manager would like to move the B&N link to the front page of iLearn to make it more accessible to students. The committee unanimously voted to move the B&N link to the front page of iLearn.

A member of the committee discussed the new Scot Supply (i.e. Storehouse) ordering system. The new system is very cumbersome and more difficult to use than the original Storehouse ordering system. Most items are considered non-stock items and every department is now being charged a mark-up of 15% for all non-stock items ordered. The system also requires you to input an FAU every time an order is placed without having the drop-down option of recently used FAU's. There is also no option to print an order confirmation of all items ordered including the item number and quantity. Pricing is also not established until the order has been sent to procurement.

The Committee reviewed and provided feedback on the following:
- Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment
- Summary White Paper on RUSD STEM High School on the Campus of the University of California, Riverside
- Provost's Taskforce for Hybrid and Online Education Final Report
- 2nd Round: Masters of Science in Business Analytics (MSiBA)
- Second Systemwide Review of Proposed Presidential Policy on Open Access for Theses and Dissertations
- Proposed Revisions to Senate Bylaw 336
- Proposed Revisions to SVSH Academic Frameworks
- 2nd Round-Medical and Health Humanities Minor
- 3rd Round: Masters of Science in Business Analytics (MSiBA)
- WASC Commission Action Letter and Report and UCR Response
- APM - 011, Academic Freedom, Protection of Professional Standards, and Responsibilities of Non-Faculty Academic Appointees
- UCR Strategic Plan

Respectfully submitted,
Jiayu Liao, Chair
Joseph Genereux, Vice Chair
Adam Harmer
Alejandra Dubcovsky
Daniel Wong
Leonid Pryadko
Lisa Raphals
Marlo Raveendran
Misaki Natsuaki
Weifeng Gu
Danna Gianforte, Associate Vice Chancellor Computing & Communications and Chief Information Officer
(*ex officio*)
Steven Mandeville-Gamble, University Librarian (*ex officio*)
Alex Gonzalez, ASUCR Student Representative
Jared Smith, GSA Student Representative

COMMITTEE ON PHYSICAL RESOURCES PLANNING
ANNUAL REPORT TO THE RIVERSIDE DIVISION
2018-2019 ACADEMIC YEAR
DECEMBER 3, 2019

To be received and placed on file:

Gerry Bomotti, Vice Chancellor for Planning and Budget, Stephanie Flores, Director of Financial Planning and Analysis and Jason Rodriguez, Financial Analyst, presented the Budget Model Refinement schedule and opportunities for refinement which include: Significant Financial Challenges/Issues, Overall Policy Issues, Budget Model Formula and Other Adjustments and More Technical Issues in the Budget Model.

Assistant Vice Chancellor of Auxiliary Services, Andy Plumley provided updates on the two new P3 student housing projects at UC Riverside: Dundee-Glasgow and the North District Development.

Dundee-Glasgow is intended for Undergraduates. The total new construction: 227,000 Gross Square Feet (GSF) and should be completed by Fall 2020.
- o Dundee: 176,400 GSF
- o Glasgow: 50,600 GSF

The Residence Hall will house 820 beds, 3 Seminar Rooms (25-seats each), 1 Large Multi-Purpose Room (75- seats), Student Lounges & Fitness Room, 80-100 Bike Parking Spaces, and a Versatile Courtyard Area.

The Dining Commons will house 830 seats and will include a Commissary Bakery, Convenience Store and a Private Dining Room.

North District (All Phases)

- ±50-Acre Site
- Expansion of North End of Campus
- Expand Living-Learning Communities
- Primarily Pedestrian Orientated
- Developed Over Multiple Phases
- 4,000 to 6,000 Beds Upon Full Build-out

North District (Phase 1)

- Intended for Undergraduate and Transfer Students
- Apartments (1,500 Beds) and will include 2 Seminar Rooms (32 seats each), 1 Large Multi-Purpose Room (125 seats), Student Lounges, Laundry & Fitness, 689 vehicular parking spaces and a Market
- ±535,000 GSF
- Active Ground Floor Areas
- Start of Construction: May 2019
- Delivery: Fall 2021

Vice Chancellor for Planning and Budget, Gerry Bomotti and Campus Architect, Jacqueline Norman provided a general update to the committee regarding the Long Rang Development Plan (LRDP). Jacqueline provided an update on the timeline and broke down how the expert workgroups would contribute to the report. VC Bomotti noted that in addition to the LRDP an Environmental Impact Report (EIR) will need to be generated in order to account for UCR's projected growth. The LRDP does have a

large community aspect of support or opposition depending on the campus. VC Bomotti also noted that so far UCR's community generally supports the growth.

The current plan is to fix or update core campus facilities. There is ongoing discussion regarding parking, cost effective renovating, and reassessing how we use older campus buildings. There was also discussion regarding replacing older single-story buildings for higher density buildings throughout campus to help accommodate the increased enrollment. VC Bomotti and Jacqueline placed historical significance on "First Five buildings" as well as on preserving the "Carillon Corridor", indicating their preference is to renovate rather than replace such buildings, and that renovations to several buildings (including Watkins Hall) are included in the proposed plans for a possible 2020 bond issue.

The current plan for the Mount Rubidoux building is to stabilize the buildings decay. The city has expressed interest in helping the restoration. VC Bomotti and Jacqueline emphasized that they want to protect and maintain UCR's identity and historical significance and that plans would be transparent.

Bylaw/Regulation & Guideline Items
The Committee on Physical Resources Planning received or reviewed the following Legislative Campus Review requests:

- Summary White Paper on RUSD STEM High School on the Campus of the University of California, Riverside
- Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment
- 2nd Round: Masters of Science in Business Analytics (MSiBA)
- 3rd Round: Masters of Science in Business Analytics (MSiBA)
- Proposed Revisions to Senate Bylaw 336
- Proposed UC Transfer Admission Guarantee
- Proposed Revisions to SVSH Academic Frameworks

T. Kramer, Chair
R. Kugel
N. Reddy
M. Alexander
B. Bishin
S. Ness
D. Jenerette

COMMITTEE ON PLANNING & BUDGET
ANNUAL REPORT TO THE RIVERSIDE DIVISION
December 3, 2019

To be received and placed on file:

From September 1, 2018 to August 31, 2019, the Committee on Planning & Budget (P&B) met a total of 19 times, with a typical meeting length of 1.5 - 2 hours. The Committee discussed and considered several business items from the campus and from Office of the President.

Campus level review subjects:

- P&B reviewed and supported FTE transfers for 5 faculty.

- P&B reviewed and commented on the summary white paper on the RUSD STEM high school on UCR's campus

- Transfer of and Changes to the LGBIT Studies Minor Program – P&B did not feel the transfer and changes being proposed had any negative budgetary impacts and supported the changes.

- UCR Multi-Year Framework – P&B was profoundly concerned about commitments to growth without adequate resources. P&B was also alarmed by the lack of stated ambition for expanding PhD programs. Moves to online education driven by a resource gap was concerning. The committee expressed their concern that the Senate was asked to respond to last minute requests instead of being consulted on the planning of the campus from the beginning.

- Proposed Degree Program – Master of Science in Business Analytics (2nd round) – P&B noted the proposal does not mention indirect costs or return-to-aid. P&B also mentioned needing clarification about the campus policy on self-supporting programs returning funds to the campus before making final comments.

- Department name change – Earth Sciences – P&B voted in favor of the proposed name change.

- Provost's Taskforce for Hybrid and Online Education Final Report – P&B unanimously agreed the report was not an adequate blueprint for guiding an expansion into online course and curriculum development. The committee provided an extensive response to the report that outlined their concern for the lack of questions considered, analysis, consultation and consideration.

- Endowed Term Chair for Teaching, Research and Service in CNAS – P&B voted in favor of the proposal.

- Proposal for a Medical and Health Humanities Minor (2nd round) – P&B was supportive of the proposal.

- Transfer of the Bachelor of Science Degree in Business Administration to the School of Business – P&B reviewed and commented on two versions of this proposal. The committee felt that the five-year plan and steps taken to mitigate budgetary impacts on CHASS promised an effective transition. P&B was also supportive of the second version of the proposal.

- Proposed Degree Program – Master of Science in Business Analytics (3rd round) – P&B noted that the revised proposal devotes 10% of tuition revenues to return-to-aid and sets

indirect costs at 30.7%. The committee was supportive of the proposal in its revised form. However, it was noted that the determination was made in the absence of the campus policy regarding standards for evaluating appropriate levels of return-to-aid and accounting for indirect costs.

- Proposed New Undergraduate Major – Data Science – P&B requested confirmation that the Deans will plan to work together to provide TA support. The costs for the program were well accounted for at the modest enrollment target of 50 students. However, P&B wondered how this number was set and if 50 represents a cap on enrollment and how higher enrollments would be supported.

- Thoughts on UCR Strategic Plan – P&B provided a detailed response on the way the UCR Strategic Plan should be handled. It is of paramount importance for the Academic Senate to be intimately involved in all stages of this process, including in the ongoing preparations.

- WASC Commission Action Letter and Report and UCR Response – P&B felt that the points raised by WASC were valid. The committee was alarmed that there were no efforts underway to establish a new strategic plan when WASC visited campus. The committee was more concerned with the campus' ability to carry out program assessment and that task falling on a single person than it was over the necessary budget model refinements requested by WASC.

- Joint Public Policy BA/MPP 5-Year Combined Degree Program – P&B was supportive of this new program proposal.

- Proposed Bylaw Revision to Bylaw Appendix 5 (5.3.1 and Addition of 5.3.11) – P&B found the policy outside of the committee's purview; however, the committee noted that adequate staff will be required to fully implement the policy.

- Proposed Budget Model Refinements – P&B reviewed the proposed revisions to the budget model and provided several comments and questions for consideration pertaining to salary and benefits, credit hour weighting, recharge rationalization, graduate (MA) incentives, PhD support as part of the budget model, facilities renovation and support, performance funding, assessment and auxiliary units, and undergraduate non-resident tuition.

Systemwide level review subjects:

- Proposed Policy – Principles of Accountability with Respect to Financial Transactions – P&B reviewed and commented on two versions of this proposal. The committee felt the proposal was outside of their purview and declined to comment.

- Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment – P&B felt the proposal was outside of their purview and did not provide comments.

- Proposed Revisions to Presidential Policy BFB-BUS-46 (Use of Vehicles and Driver Selection Policy) – two versions were reviewed – in the first response provided by P&B, the committee noted that the new policy mandates various forms of training but there is no discussion of who would be responsible for developing the training programs and associated costs. In the second version, P&B had the same response as this had not been clarified in the revised proposal.

- Proposed Presidential Policy on Open Access for Theses and Dissertations – P&B expressed general concern that open access could affect long term research results with open access to short term research publications. Many members felt the campus and UC policy should be in line with UC Berkeley's policy in which a two-year embargo is the default (versus a suggestion to have students choose to opt in).

- Proposed Revisions to Senate Bylaw 336 – P&B members expressed concern over the expectation for faculty with 9-month appointments and research commitments to adhere to the new timelines in the event hearings occur during the summer. Members also felt that shortened timelines may minimize the chances for mediation at earlier stages in the process.

- Proposed Revisions to Sexual Violence and Sexual Harassment Academic Frameworks – P&B did not have any specific comments that pertained to the committee's charge.

- Report Review – UC Center Sacramento – The committee found the review and proposals for investment to expand and improve the program thoughtful and persuasive. The proposal reflects the UC mission of research, teaching and service in unique and significant ways that justify the investment to expand. However, it was noted that there is a low level of UCR student participation, and the committee was interested in what the program offers to encourage UCR's students to attend.

- Report Review: Research Grant Program Office – Current State Assessment Report – P&B supported the finding of the report that the Research Grant Program Office should remain in the Office of the President to ensure equitable and impartial distribution of funds. P&B also noted that staffing remains a challenge and the report offered no clear resolution.

In addition, The Chair of P&B met with the Chair of Graduate Council, select members from Graduate Council, the Vice Chancellor of Planning & Budget, and the Associate Vice Chancellor of Financial Planning & Analysis about the campus' policy on self-supporting programs returning funds to the campus.

P&B invited the Vice Chancellor of Planning & Budget and/or the Associate Vice Chancellor to attend a portion of their meetings once per month.

P&B also met with all Academic Deans and select non-academic unit heads to discuss the yearly budget process and future plans and projections for the unit. The committee produced a final report to the Academic Senate Chair and members of the administration of their findings after meeting with the Deans and unit heads.

The committee Chair also participated as a member on the campus' Governance Committee, which reviews unit budget requests annually.

Respectfully Submitted,

Katherine Kinney, English, Chair
Harry Tom, Physics & Astronomy, Vice Chair
Adalberto Aguirre, Sociology
Rogerio Budasz, Music

David Eastmond, Molecular, Cell & Systems Biology
Yawen Jiao, Business
Covadonga Lamar-Prieto, Hispanic Studies
Nosang Myung, Chemical & Environmental Engineering
Mikeal Roose, Botany & Plant Sciences
James Tobias, English
Akula Venkatram, Mechanical Engineering
Francisco Zaera, Chemistry

COMMITTEE ON PREPARATORY EDUCATION
ANNUAL REPORT TO THE DIVISION
DECEMBER 3, 2019

To be received and placed on file:

The Committee on Preparatory Education met three times during the 2018-2019 academic year.

The Riverside Division of the Committee on Preparatory Education was represented on the Universitywide Committee on Preparatory Education (UCOPE) by the Committee Chair Deborah Willis. The Committee was updated by Professor Willis at each meeting about issues under discussion at the Systemwide level.

The Committee undertook its regular review of the Entry Level Writing Requirement (ELWR) program. The Director of the University Writing Program and ex officio member of the Committee, John Briggs, provided the Committee with an overview of the program and presented a report documenting the outcomes of the program for the 2017-2018 academic year. The report documented that 62% of entering freshmen at UCR had satisfied the ELWR before registering as full time students. The remaining 38% of entering freshmen placed in entry-level writing courses and the great majority made good progress once they arrived at UCR. The Committee voted to approve the report and it was reported on the December 4, 2018 Division meeting agenda.

The Committee reviewed the Summary White Paper on the RUSD STEM High School at UCR and did not find anything in the plan that would cause problems for UCR's preparatory education programs. The Committee did recommend that the plan be revised to elaborate more fully on the nature and extent of instructional assistance to be required from UCR faculty, the possible impact on the availability of space in UCR buildings, and the plan for managing increased traffic on campus and in nearby neighborhoods.

The Committee reviewed and supported requests from the Department of Mathematics to place students in MATH 005 and MATH 004 who receive a score of 2 on the AP Calculus AB Exam, to award credit for MATH 009C to students who score a 4 or 5 on the AP Calculus Exam, and to adopt ALEKS PPL as the mathematics placement and re-testing platform.

The Committee reviewed the revised Presidential Policy on Sexual Violence and Sexual Harassment, proposed changes to Senate Bylaw 336, the proposed UC Transfer Guarantee, proposed revisions to the Sexual Violence and Sexual Harassment Academic Frameworks, and the proposed change to Senate Regulation 636.E and did note any concerns relating to the Committee's charge of preparatory education.

The Committee reviewed the Senate Chair's request for input on UCR's next strategic plan and recommended that the strategic plan give serious attention to resources needed to support the increase of transfer students, student advising, and increased attention to learning outcomes and assessment and increase support for first-year success programs including preparatory education programs. The Committee further recommended that the strategic plan give great emphasis to UCR's need for better infrastructure, more classrooms and labs, increased number of class offerings, and resources to support teaching and online education. The Committee recommended that the process for developing a strategic plan directly involve all Senate Committees.

Deborah Willis, Chair & UCOPE Rep.
Anthony Jerry
Tao Jiang
Sara Lapan

Stephen Wimpenny
Paul Beehler, Ex Officio
David Volz, Ex Officio
Alicia Arrizón, Ex Officio
Connie Nugent, Ex Officio
Marko Princevac, Ex Officio
Sarah Al-Khalili, ASUCR Rep.

COMMITTEE ON PRIVILEGE AND TENURE
ANNUAL REPORT TO THE RIVERSIDE DIVISION
December 3, 2019

<u>To be received and placed on file:</u>

The primary function of the Committee on Privilege and Tenure is to consider grievances brought by members of the Academic Senate and disciplinary charges brought by the administration against members of the Academic Senate. Details of all grievances, charges, and cases are confidential. The Committee may also be asked to opine on proposed revisions to Bylaws and Regulations which may be related to the charge of the committee.

Following is a summary of Committee activities during the 2018-19 academic year:

- P&T received four grievance cases and completed the adjudication process. One grievance case received in AY17-18 was carried over to AY18-19 where it was settled by negotiated resolution.

- P&T received no new disciplinary cases in AY18-19. A pending disciplinary case received in AY17-18 was withdrawn due to resignation. A pending disciplinary case received in AY17-18 was withdrawn due to retirement. The adjudication process for a disciplinary case received in AY17-18 was completed in Winter 2019.

- Policy Recommendations considered by P&T include the following reviews:
    - System-wide Review of Proposed Revisions to Senate Bylaw 336
    - System-wide Review of Proposed Revisions to SVSH Academic Framework
    - System-wide Review of Proposed Revisions of Presidential Policy on Sexual Violence and Sexual Harassment
    - System-wide Proposal of APM-11 (Academic Freedom, Protection of Professional Standards, and Responsibilities of Non-Faculty Academic Appointees).
    - Senate Review of Proposed Revisions to Appendix 5

Respectfully submitted,

N. Abu-Ghazaleh
D. Burrill
J. Wu
L. Ferrero
C. Weirauch
R. Zandi
H. Hong
M. Adams, Chair

COMMITTEE ON RESEARCH
ANNUAL REPORT TO THE RIVERSIDE DIVISION
DECEMBER 3, 2019

To be received and placed on file:

Overview:

During the 2018-2019 academic year, the Committee on Research (CoR) met seven times. The Committee reviewed and readopted the prior year's Conflict of Interest Statement.

Review Items and Other Consultation:

Summary White Paper RUSD STEM High School: The Committee on Research reviewed the summary white paper on RUSD STEM High school. The committee supports the proposal under the condition that no research space is lost as a result.

Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment: The Committee on Research reviewed the revised presidential policy and supports the changes.

Proposed UCR Long Term Academic Calendar: The Committee on Research reviewed the proposed UCR long term Academic Calendar and felt the proposal is outside their purview.

Second Systemwide Review of Proposed Presidential Policy on Open Access for Theses and Dissertation: The Committee on Research reviewed the proposed presidential policy on Open Access for Theses and Dissertations. The committee noted that under the "Approval of Extended Embargo Period" section stating "upon receiving a letter of request from the dissertation chair or other appropriate authority overseeing the thesis or dissertation at issue, such as a Principal Investigator (P1)" that the graduate student should also be included and allowed to request extension of the embargo.

Proposed Revisions to Senate Bylaw 336: The Committee on Research reviewed the proposed revisions to Senate bylaw 336. While the committee agrees that timely responses to charges are necessary, the committee has several concerns: 1) if the deadlines are compatible with current operating procedures of appropriate Academic Senate committees, as already noted by Chairs of these committees, b) if proposed revisions are in compliance with confidentiality rules that already exist, and c) the ambiguity of the actions and consequences in the instances where the hard deadlines are not met.

Proposed UC Transfer Admission Guarantee: The Committee on Research reviewed the UC Transfer Admission Guarantee proposal and had no comments.

Proposed Revisions to SVSH Academic Frameworks: The Committee on Research reviewed the proposed revision to the SVSH Academic Frameworks and had no comments.

2 Round- Medical and Health Humanities Minor: The Committee on Research reviewed the proposed second round medical and health humanities minor proposal. The committee had no comments and supports the proposal.

Research Grant Program Office – Current State Assessment Report: The Committee on Research reviewed the Research Grant Program Office current State Assessment and felt that the information provided was too broad to provide meaningful feedback.

UCR Strategic Plan: The Committee on Research discussed ideas for the new UCR strategic plan. Key areas of emphasis the committee discussed were space / building needs, graduate student support, grant support programs, increased focus on research space, and more intramural funding for research opportunities (CoR would like to continue and increase providing grant support via yearly grant applications).

>Specific comments and suggestions:
>
>1. To accommodate expected and desired student growth (35000 in 2035), space is needed. UCR already has deficiency in educational and research space, and prior to student population increase, these deficiencies need to be addressed.
>
>2. Online classes should be used only when conducive for student learning, and not as an answer to the lack of space. Academic Senate Committees, especially Faculty Welfare and Educational Policy should be included in the discussion on online education.
>
>3. To accommodate undergraduate student population growth, graduate students population should increase even more in proportion, in order to provide teaching assistants; to facilitate this growth more support for graduate education is needed.
>
>4. Faculty and research space growth should accompany increased student population.

Grant Applications

CoR's primary activity is to administer intramural grant competitions. The committee further clarified the applications guidelines and spending limitations.

Research Grant Applications received for 2019-2020 funding included:

>Total Applications: 482
>Total Funded Applications: 430

>Grant Type + Scoring Breakdown: (Total Funded / Total Received)
>- Omnibus (346/373)
>   - Travel Only = (263/282)
>   - Research and Travel = (83/91)*
>   - Score 3 awarded $1800 (29)
>   - Score 2.5 awarded $1400 (34)
>   - Score 2 awarded $1100 (14)
>   - Score 1.5 awarded $900 (10)
>   - Score 1 awarded $900 (4)
>- CoR (45/57)
>   - Score 5 awarded $6000 (8)
>   - Score 4.5 awarded $5000 (11)
>   - Score 4 awarded $3500 (10)
>   - Score 3.5 awarded $2500 (12)
>   - Score 3 awarded $2000 (4)
>- Regent Faculty Fellowship (25/33)
>   - Score 5 awarded $6000 (5)
>   - Score 4.5 awarded $5000 (6)

- o Score 4 awarded $3500 (4)
- o Score 3.5 awarded $2000 (8)
- o Score 3 award $1500 (2)
- Regent Faculty Development (14/19)
    - o Score 5 awarded $6000 (1)
    - o Score 4.5 awarded $5000 (4)
    - o Score 4 awarded $3500 (6)
    - o Score 3.5 awarded $2000 (3)

*Omnibus recipients who receive a grant of $5000 or more don't receive the travel funding

Total Research funds awarded for 2018-19 was $675,100.

Respectfully Submitted,
Djurdjica Coss, Chair
Vivek Aji
Kadangode K. Ramakrishnan
Kelly Jeong
Andreja Novakovic
Alison Bella Merlin
Fedor Karginov
Hai Che
Sergio Joseph Rey
Wenwan Zhong
Daniel Ozer
Ian Wheeldon
Ex Officio, Michael Pazzani, Vice Chancellor for Research

COMMITTEE ON RULES AND JURISDICTION
ANNUAL REPORT TO THE RIVERSIDE DIVISION
December 3, 2019

<u>To be received and placed on file:</u>

The Committee on Rules and Jurisdiction conducted its work via email. Following is a summary of Committee activities from September 1, 2018 to August 31, 2019. In addition to reaffirming its Conflict of Interest Statement, the Committee conducted a review of its current bylaws and put forward a proposed change for Senate consideration. Members put forth a proposal to change bylaw 8.21.2.2 as the committee sometimes receives proposals that have vagueness or ambiguity or internal inconsistency or omit crucial information or references. Such failings should be grounds for rejection by the committee, yet the committee's charge fails to specifically and explicitly empower it to do so.

In keeping with the charge to review legislation submitted for adoption, the Committee considered the Regulations, Bylaws, and Policies below:

- Campus Review: 3rd Revision: School of Public Policy Bylaw Change PP1.2, PP4.1, PP4.1.6-Voting and Membership

- Campus Review: 4th Round: School of Public Policy Bylaw Change PP1.2, PP4.1, PP4.1.6-Voting and Membership

- Campus Review: 3rd Round: School of Public Policy Regulations

- Campus Review: Proposed changes to Bylaw GR 1.2 Standards of Scholarship and Disqualification

- Campus Review: 2nd Round Proposed changes to Bylaw GR 1.2 Standards of Scholarship and Disqualification

- Campus Review: 3rd Round Proposed changes to Bylaw GR 1.2 Standards of Scholarship and Disqualification

- Campus Review: CNAS Bylaw N1.2 Membership: to Specify Cooperative Extension Specialist as Eligible to Attend Meetings of the CNAS Faculty

- Campus Review: Bylaw Appendix 5 (5.3.1 and Addition of 5.3.11)

- Campus Review: Proposed Change to the School of Business Bylaws

- Systemwide Review: Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment

- Systemwide Review: Proposed Revisions to Senate Bylaw 336

- Systemwide Review: Proposed Revisions to SVSH Academic Frameworks

In addition to the above, the Committee is often asked to respond to informal requests from members, officers, or committees of the Division for information regarding the Code of the Academic Senate or the legislation of the Division. To that end, the Committee responded to the following requests for advice or ruling:

- Thoughts on the UCR Strategic Plan

Respectfully submitted,

      Z. Ran, Chair
      K. Vafai
      K. Esterling, Secretary Parliamentarian

**COMMITTEE ON SCHOLARSHIPS AND HONORS
ANNUAL REPORT TO THE DIVISION
DECEMBER 3, 2019**

To be received and placed on file:

The Committee on Scholarships and Honors met on March 4, 2019 to discuss the candidates for the Chancellor's Awards for Excellence in Undergraduate Research and Creative Achievement. The committee submitted to the Division the nominations of Professor Wenwan Zhong, from the Department of Chemistry, for the 2018-2019 faculty Chancellor's award.

The committee also selected Malcolm Tran, from the Department of Biology, and Daniel Castaneda, from the Department of History as the student recipients of the 2018-2019 Chancellor's award. The nominations were approved at the May 21, 2019 meeting of the Riverside Division of the Academic Senate.

A. Barinov, Chair
S. Becker
L. Bhuyan
T. Jiang
A. Mills
V. Ortego-Marti
S. Xu
C. Davenport ASUCR
J. Aguilar, Director of Student Financial Aid (ex-officio)

Committee on Undergraduate Admissions
Annual Report to the Riverside Division
December 3, 2019

To be received and placed on file:

The Committee on Undergraduate Admissions (UAC) met 12 times during the 2018-2019 academic year.

The Riverside Division of the Committee on Undergraduate Admissions Committee was represented on the Systemwide Board of Admissions and Relations with Schools (BOARS) by David Volz, Chair of the Committee on Undergraduate Admissions. BOARS held 10 meetings during the 2018-2019 academic year. Chair Volz updated Committee members at each meeting as to the issues discussed at the UC System-level. In addition, Chair Volz represented the Committee on Executive Council and served as an *ex officio* member of the Committee on Preparatory Education.

The Director of Undergraduate Admissions Emily Engelschall updated the Committee at each meeting on the Fall 2019 Freshmen admissions cycle and Winter 2019 and 2020 transfer admissions cycles and other issues of note from the Office of Undergraduate Admissions. Assistant Vice Chancellor for Institutional Research Allison Cantwell provided the Committee with information about models for tracking admissions and provided consultation at meetings when data was reviewed.

Actions undertaken by the Committee during the academic year were the following:

- The Committee continued the evaluation of possible pathways to holistic (comprehensive) review of admissions at UCR and discussed potential factors that could be incorporated into the human-read review. The Committee finalized a set of criteria and sample rubric to be used in a pilot study of the review of applications of students from the Fall 16 cohort. The Office of Undergraduate Admissions hired readers to conduct the review in Winter 2019. The results of the review of applications in the pilot study provided inconsistent results, which led to additional consultation with other campuses to determine how their processes for holistic review were developed and implemented. The Committee decided to place a hold on the holistic review pilot study until the conclusion of the State's audit of admissions of the UC System as the outcome of the audit might change admissions processes for the System.

- The Committee reviewed the proposed transfer of the Lesbian, Gay, Bisexual, Intersex, and Transgender Studies minor to the department of Gender and Sexuality Studies, revised Presidential Policy on Sexual Violence and Sexual Harassment, and the proposed revision to Senate Regulation 636.E and did not note any concerns relating to the Committee's charge of Undergraduate Admissions.

- The Committee reviewed the summary white paper on the RUSD STEM High School at UCR and noted concern that the report does not document the impact the high school will

have on recruitment and admissions. The Committee recommended that a survey be conducted with current students to determine if a high school located on campus would impact their decision to attend UCR.

- The Committee responded to the Senate Chair's request for input on UCR's next strategic plan with the recommendation to retain strategy #2.B.2: realigning Admissions Criteria and Recruitment from the 2020 Strategic Plan. Additionally, the Committee recommended that the next strategic plan include strategies for the commitment of resources to support admissions of transfer and non-California residents to address UCR's initiative to increase admission of both groups. The Committee also recommended that the next plan include strategies for the growth of online course offerings, space constraints on campus, scholarship development, campus limitations to expansion, and the need to encourage support for creativity and openness when rethinking academic scheduling. The Committee further recommended that the administration share proposed text for any strategic plans related to admissions with the Committee and to include members of the campus community that are experts in admissions as well as Senate representation when drafting the plan.

- The Committee reviewed the proposed revision to Senate Bylaw 336 and did not note any concerns with the revision as it relates to the Committee's charge of undergraduate admissions. However, the Committee did recommend that the proposed revision to the bylaw include a strong justification for allowing up to three years to file disciplinary charges following receipt of a complaint. The Committee also recommended that greater clarity about the process and time limitations prior to filing disciplinary charges be provided.

- The Committee reviewed the proposed UC Transfer Admissions Guarantee and was supportive of the overall proposal. However, concern was noted that competitive transfer applicants interested in non-Transfer Pathway majors will be disadvantaged as they will not be eligible for a systemwide guarantee based on their preferred major. The Committee recommended that UCOP continue to work with campuses to aggressively add new transfer pathways and majors. The Committee was supportive of the proposal to build upon existing campus-level Transfer Admission Guarantees (TAGs), however, concern was expressed that despite BOARS request for campus-level autonomy as part of the proposal, UCOP may exert pressure and potentially force campuses to align TAG with transfer pathway requirements. This could result in a pool of TAG-eligible transfer applicants that will not be able to TAG to a campus if their course requirements do not align with a transfer pathway or their preferred major does not have a transfer pathway.

- The Committee reviewed the proposed revisions to the Sexual Violence and Sexual Harassment Academic Frameworks and did not have any concerns with the revision as it relates to the Committee's charge of undergraduate admissions. The Committee did note concern that the revision to the frameworks does not include a time frame that specifies how long the Regents have to reach a decision about the dismissal of a faculty member who has tenure or security of employment.

- The Committee reviewed the proposal for the joint Public Policy BA/MPP 5-year combined degree program and recommended that justification and rationale be provided for selecting the preliminary conditional admission criteria for entering freshmen as concern was noted that it is unlikely that there will be a sufficient pool of eligible applicants to support this program over the long-term based on the proposed thresholds. The Committee also recommended that the proposal be updated to clarify that the SAT score is based on the old scoring system and include the equivalent SAT score using the new SAT scale.

David Volz, Chair & BOARS Representative
Catherine Gudis
Michael Haselhuhn
Uma Jayakumar
Worku Nida
Pete Sadler
Sheldon Tan
LaRae Lundgren, Ex Officio
Abigail Cortes, ASUCR Representative

COMMITTEE ON UNIVERSITY EXTENSION
ANNUAL REPORT TO THE RIVERSIDE DIVISION
DECEMBER 3, 2019

To be received and placed on file:

The Committee on University Extension met three times this Academic Year and conducted a virtual meeting through iLearn and email in July 2019. In the 2018-2019 academic year the Committee examined and approved 570 course and instructor proposals in the X300-400 series. The Committee also approved 15 proposals for extension certificates and diplomas.

The Committee reviewed the revised Presidential Policy on Sexual Violence and Sexual Harassment, proposed changes to Senate Bylaw 336, and proposed changes to the Sexual Violence and Sexual Harassment Academic Frameworks and did not note any concerns regarding the Committee's purview of University Extension.

The Committee responded to the Senate Chair's request for input on the next UCR strategic plan with the hope that UNEX will continue to provide a valuable role at UCR in the future.

The Committee consulted with the Dean of University of Extension at each meeting and provided recommendations for academic programs offered at University Extension.

The Committee would like to commend University Extension for their continuing efforts to expand offerings in new directions, and for the high quality of all programs. University Extension has developed a number of very innovative programs this year, and the quality of instructors continues to be excellent. The Committee would like to thank the Dean of University Extension, Kevin Vaughn, and University Extension Academic Services Coordinator Linda Coco for an excellent job in presenting the best candidates for review and approval by the Committee and for promptly providing additional information for proposals as requested.

James Brennan, Chair
Maryjo Brounce
Boniface Fokwa
Bai-lian (Larry) Li
Robert Rosenthal
Ashish Sood
Alex Gonzalez, ASUCR Representative

To be received and placed on file:
The Executive Committee of the College of Engineering met 10 times during the 2018-19 academic year.

1. **Course proposals**
    New - 44   Changes - 16   Restore - 0   Deletions – 11

NEW		CHANGE	DELETE
BIEN111	HNPG 018	CHE 124	BIEN 220
BIEN211	HNPG 150	CS/EE 120B	CS 121
BIEN 275	HNPG 199H	CS 167	CS 121L
BIEN/PSYC 276	MSE 002L	CS 171	CS 134
CS 110	MSE 003L	CS 203	CS 245
CS 173	MSE 004L	CS 211	CS 261
CS 178A	MSE 142	EE 005	CS 262
CS 178B	MSE 143	EE 010	CS 263
CS 204	MSE 148	EE 153	EE 227
CS 205	MSE 155	EE206/MSE 227A	MSE 227
CS 213	MSE 156	EE 255/CS 251	MSE 248
CS 216	MSE 200	ENVE/ENSC 144	
CS 247	MSE 208A/ME 266	ENVE 175A	
EE 208/MSE 227B	MSE 211	ME 260	
EE 236/ME 236	MSE214/PHYS240A	MSE 218/ME 278	
ENGR 204	MSE 224	MSE 234A/PHYS 234	
HESA 001	MSE 248B/ME 272		
HNPG 002W	MSE 248C/ME 279		
HNPG 003	MSE229/CEE 240		
HNPG 004	MSE239A/CEE 222/ CHEM222		
HNPG 016	MSE 239B/CEE 224		
HNPG 017	MSE 239C/CEE 235		

2. **Programs**
    *   The Executive Committee received:
        o   Proposed change to the Chemical Engineering Undergraduate Program
        o   Proposed change to the Computer Science Undergraduate Program
        o   Proposed change to the Computer Science with Business Applications Undergraduate Program
        o   Proposed change to the Computer Science Undergraduate Minor
        o   Proposed change to the Electrical Engineering Graduate Program
        o   Proposed change to the Materials Science & Engineering Undergraduate Program
        o   Proposed change to Mechanical Engineering Graduate Program
        o   Proposed change to the Master of Science Online Graduate Program

3. **Reviewed/Submitted Items**
   o Summary White Paper on RUSD STEM High School on the Campus of the University of California, Riverside
   o 2nd Round: School of Public Policy Regulations
   o 3rd Round: School of Public Policy Regulations
   o Proposed Model System-wide Policy for the Awarding of Posthumous Undergraduate Degrees
   o Proposed Revisions to Presidential Policy BFB-RMP-7 Protection of Administrative Records Containing Personally Identifiable Information
   o Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment
   o Provost's Taskforce for Hybrid and Online Education Final Report
   o Thoughts on UCR Strategic Plan
   o Medical and Health Humanities Minor – 2nd round
   o Bylaw Appendix 5, 5.3.1 and Addition of 5.3.11
   o Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment
   o Proposed Bylaw Revision to Senate Bylaw 336
   o Second Review of Proposed Presidential Policy on Open Access for Theses and Dissertations
   o Proposal to Condense MATH 009ABC series
   o Transfer Admission Guarantee
   o APM011 Academic Freedom Protection of Non-Faculty Academic Appointees
   o Report on UC Center Sacramento
   o Research Grant Program Office - Current State Assessment Report

4. **Student Petitions**
   - None were received

5. **Degrees awarded**
   74 B.S. end of Fall 2018
   67 B.S. end of Winter 2019
   365 B.S. end of Spring 2019
   47 B.S. end of Summer 2019

Honors at Graduation	Honors	High Honors	Highest Honors
Fall 2018	8	1	2
Winter 2019	5	1	3
Spring 2019	36	18	10

Students on Probation and Subject to Dismissal

	Fall 2018	Winter 2019	Spring 2019
Academic Probation	187	182	191
Dismissal	35	28	23

2018-19 Executive Committee:

Tom Stahovich, Chair	Juchen Guo (CEE)
Philip Brisk (CSE)	Chris Lynch, Dean, Ex Officio
Dimitrios Morikis (BIEN)	Chinya Ravishankar, Associate Dean, Ex Officio
Evangelos Hristidis (Member at Large)	Marko Princevac, Associate Dean, Ex Officio
Masaru Rao (ME)	Rod Smith, Undergraduate Student Affairs Director
Elaine Haberer (EE)	Katelyn Robinson, Student Affairs Assistant

EXECUTIVE COMMITTEE
COLLEGE OF HUMANITIES, ARTS, AND SOCIAL SCIENCES
ANNUAL REPORT TO THE RIVERSIDE DIVISION

December 3, 2019

To be received and placed on file:

The Executive Committee of the College of Humanities, Arts, and Social Sciences met 9 times during the 2018-19 academic year.

1. Course Proposals

New courses	51	Courses changed	102
New E-Z segments	1	Courses deleted	19
Professional courses	2	Priority Enrollment	5
Courses restored	0		

2. Majors

    The Faculty approved the following new majors: NONE

    The Executive Committee approved changes in the following majors: Art; Business Economics; Economics; Economics/Administrative Studies; Economics/Law and Society; English; History, Philosophy (Honors); Political Science; Political Science/Administrative Studies; Political Science/International Affairs; Political Science/ Law & Society; Political Science/Public Service Major.

3. Minors

    The Faculty approved the following second review of minor: Medical and Health Humanities Minor

    The Executive Committee approved changes in the following minors: Anthropology; Economics; History; International Relations; and Political Science.

    The Executive Committee approved a minor transfer:
       -The committee approved a transfer of LGBIT Studies Minor to Gender and Sexuality Studies

4. Program and Breadth Reviews:

    The committee reviewed and approved Proposed Model Policy for the Awarding of Posthumous Undergraduate Degrees.

    The committee reviewed and approved the Proposed Regulations: 3rd Round: School of Public Policy Regulations.

    The committee reviewed and approved the 18-19 Catalog Changes related to the Appendix 7 Transfer of and the changes to the Lesbian, Gay, Bisexual, Intersexual, and Transgender (LGBIT) Studies Minor.

    The committee reviewed and approved the Interdisciplinary Studies Program Moratorium: Dissolution of the Interdisciplinary Studies Program Committee.

    The committee reviewed and approved Major Change Criteria-Economics Department.

    The committee reviewed the Interdisciplinary Undergraduate Programs in the College of Humanities, Arts, and Social Sciences.

    The committee reviewed and commented on the Proposal to Convert the Business Administration Major (BSAD) from a 2-year Upper Division Major to a 4-year major.

    The committee established an Ad Hoc Committee-Review of the Proposal by SoBA to Convert the Business Administration Major (BSAD) from a 2-Year Upper-Division Major to a 4-year Major.

5.   <u>Regulations and Bylaws</u>

The committee approved the following new College Regulation: NONE
The committee approved the following new College Bylaw: NONE

The committee approved the following College Regulation changes: NONE
The committee approved the following College Bylaw changes: NONE

Campus
The committee commented and approved the following Campus Regulation: NONE

The committee approved the following Campus Bylaw: Proposed Bylaw Revision: Proposed Revisions to Senate Bylaw 336.
The committee approved the following Campus Bylaw: Proposed Bylaw Revision: Bylaw Appendix 5 (5.3.1 and Addition of 5.3.11)

6.   <u>Executive Committee Business and Review</u>
The committee reviewed and commented on the Summary White Paper on RUSD STEM High School on the campus of the University of California, Riverside.

The committee reviewed and commented on the Systemwide Review of Proposed Presidential Policy on Sexual Violence and Sexual Harassment Studies.

The committee reviewed and commented on the Systemwide Review of Proposed Presidential Policy BFB-RMP-7 Protection of Administrative Records Containing Personally Identifiable Information.

The committee reviewed and commented on the Campus Review – Report Review: 18-19 Provost's Taskforce for Hybrid and Online Education Final Report.

The committee reviewed and commented on the 18-19 Extension of Exception to APM275-16-f(3) Restrictions: 1/16 Limitation on Appointment to Professor of Clinical X Series.

The committee reviewed and commented on the University Honors – Honors (HNPG) Courses.

The committee reviewed and commented on the UCR Strategic Plan.

The committee reviewed and commented on the Proposed Policy: Second Systemwide Review of Proposed Presidential Policy on Open Access for Theses and Dissertations.

The committee reviewed and commented on the Proposal: Proposed UC Transfer Admission Guarantee.

The committee reviewed and commented on the Endowed Term Chair for Research Excellence and Undergraduate Research Mentoring in College of Humanities, Arts, and Social Sciences.

The committee reviewed and commented on the Proposed Change to Administrative Studies Majors Section in Catalog Copy.

The committee reviewed and commented on the Proposed Revisions to Policy: Proposed Revisions to SVSH Academic Frameworks.

The committee reviewed and commented on the Report Review: UC Center Sacramento.

The committee reviewed and commented on the Systemwide Review of Proposed New Academic Personnel Manual (APM), section 011, Academic Freedom, Protection of Professional Standards, and Responsibilities of Non-Faculty Academic Appointees (APM-011).

The committee reviewed and commented on the Systemwide Report Review: Research Grant Program Office – Current State Assessment Report.

The committee reviewed and commented on the Review of Breadth Subject Codes.

7. <u>Student Petitions</u>
1—Grade appeal
1—Request for Certificate of Attendance approved

8. <u>College Awards</u>
1—Distinguished Research Lecturer
1—CHASS-Teaching Award—finish term
0—CHASS Faculty Award for Civic Engagement

9. <u>Scholarship Decisions</u>
Degrees Awarded

B.A. end of Summer Session 2018	487
B.S. end of Summer Session 2018	40
B.A. end of Fall Quarter 2018	170
B.S. end of Fall Quarter 2018	14
B.A. end of Winter Quarter 2019	252
B.S. end of Winter Quarter 2019	10
B.A. end of Spring Quarter 2019	1205
B.S. end of Spring Quarter 2019	96

10. <u>Students/Academic Action</u>

	Fall 2018	Winter 2019	Spring 2019
Subject to Dismissal	616	747	712
Dismissed	57	4	176
Reinstated/Readmitted	156	86	49
Probation	507	497	455

11. <u>Honors at Graduation</u>

	Cum Laude	Magna Cum Laude	Summa Cum Laude
Summer Session 2018	19	4	6
Fall Quarter 2018	7	4	4
Winter Quarter 2019	24	12	9
Spring Quarter 2019	145	56	31

<u>2018-19 Executive Committee:</u>
Johannes Endres, Chair, History of Art (19W and 19S)
Lucille Chia, Acting Chair (18F)
Ana Bajzeli, Religious Studies
Jody A. Benjamin, Global Studies
Paul Chang, Asian Studies
Kelly Huffman-Neal, Psychology
Jodi Kim, Media and Cultural Studies
Bronwyn Leebaw, Political Science
Mark Allen Minch, English
Joao H. Vargas, Anthropology

<u>Ex Officio</u>:
Timothy Lithgow, Graduate Student *ex-officio*
No representation, Graduate Student *ex-officio*
Asia Ou, Undergraduate Student *ex-officio*
No representation, Undergraduate Student *ex- officio*
José Beruvides, Student Academic Affairs *ex-officio*
Alicia Arrizón, Associate Dean *ex-officio*
Sang-Hee Lee, Associate Dean *ex-officio*
Kiril Tomoff, Associate Dean *ex-officio*
Milagros Peña, Dean *ex-officio*

10/31/19 GB

EXECUTIVE COMMITTEE
COLLEGE OF NATURAL AND AGRICULTURAL SCIENCES

ANNUAL REPORT TO THE RIVERSIDE DIVISION

DECEMBER 3, 2019

The Executive Committee of the College of Natural and Agricultural Sciences met 12 times during the 2018-2019 academic year.

1. COURSE PROPOSALS

New Courses:	33	Course Changes:	28
Course Deletions:	5	Course Restorations:	2
Course Splits:	2	Professional/Grad Courses:	60

2. M.S. PROGRAMS

The Committee approved the following proposals:

- Proposed Degree Program: 2nd Round Masters of Science in Business Analytics (MSiBA)
- 3rd Round Masters of Sciences in Business Analytics (MSiBA)

3. MAJORS

The Committee approved the proposal for new major:

- B.S. Data Science

The Committee approved curriculum changes to the following undergraduate program:

- B.A. and B.S. Environmental Sciences

4. MINORS

The Committee approved the proposal for new minor:

- Proposal for 2nd Round Medical and Health Humanities Minor

5.   DEPARTMENT NAME CHANGES

The Committee approved the department name change from Department of Earth Sciences to Department of Earth and Planetary Sciences

6.   REGULATIONS AND BYLAWS

College

The Committee approved the following college bylaw change:

- Change to CNAS Executive Committee Bylaw N1.2 on Membership

Campus

The Committee reviewed the following bylaws and regulations:

- Proposed Regulations – 3rd Round: School of Public Policy Regulations
- Proposed Bylaw Revision: Bylaw Appendix 5 (5.3.1 and Addition of 5.3.11)

Systemwide

The Committee reviewed the following bylaw revisions:

- Proposed Revisions to Senate Bylaw 336

7. OTHER – ISSUES UNDER REVIEW

Systemwide

The Committee reviewed the following systemwide issues:

- Proposed Revised Presidential Policy on Sexual Violence and Sexual Harassment
- Proposed Revisions to Presidential Policy BFB-RMP-7 Protection of Administrative Records Containing Personally Identifiable Information
- Second Systemwide Review of Proposed Presidential Policy on Open Access for Theses and Dissertations
- Proposed Revisions to SVSH Academic Frameworks
- Proposed UC Transfer Admission Guarantee
- Report Review: UC Center Sacramento
- New APM: APM -011, Academic Freedom, Protection of Professional Standards, and Responsibilities of Non-Faculty Academic Appointees
- Report Review – Research Grant Program Office – Current State Assessment Report

Campus

The Committee reviewed the following campus issues:

- Proposed Model Systemwide Policy for the Awarding of Posthumous Undergraduate Degrees
- Proposal to use AP Calculus AB Exam Score2 for Placement in MATH 4 and 5 (Amended to include MATH
- Campus Report Review: Summary White Paper on RUSD STEM High School on the UCR Campus
- Proposal to Award Credit for Math 9C to Students with AP Calculus BC Exam Score of 4 or 5
- Consultation: Extension of Exception to APM 275-16-f(3) Restrictions: 1/6 Limitation on Appointment to Professor of Clinical X Series
- Report Review: Provost's Taskforce for Hybrid and Online Education Final Report

UCR Strategic Plan

The CNAS Executive Committee provided the Senate Chair with written feedback to aid the development of the process, content and vision of the next UCR Strategic Plan (2054).

8. <u>DISTINCTION AND RECOGNITION</u>

- The Committee supported the establishment of the Endowed Term Chair for Teaching, Research and Service in CNAS
- The Committee supported the Multidisciplinary Research Building to be named Collaboration Space in Memory of Ron and Jeanne Sladek
- The Committee supported the renaming of the UCR Citrus Collection to Givaudan Citrus Variety Collection at the University of California Riverside

9. <u>SCHOLARSHIP AND DEGREES CONFERRED</u>

CNAS Undergraduate Degrees Conferred

	B.A.	B.S.
Fall 2018	5	51
Winter 2019	9	97
Spring 2019	19	699
Summer 2019	10	139

Graduation Honors

	Highest Honors (top 2%)	High Honors (next 4%)	Honors (next 10%)
Fall 2018	1	1	3
Winter 2019	2	5	8
Spring 2019	16	29	74
Summer 2019	1	0	8

Academic Action

	FALL 2018		WINTER 2019		SPRING 2019	
	Number	Percentage	Number	Percentage	Number	Percentage
Good Standing	5,506	(91.1%)	5,015	(87.4%)	4,741	(86.06%)
Probation	288	(4.8%)	346	(6.03%)	321	(5.83%)
Subject to Disqualification	224	(3.7%)	377	(6.57%)	413	(7.5%)
Disqualified	24	.4%)	0	(0.0%)	34	(.62%)
TOTALS	6,042	(100%)	5,738	(100%)	5,509	(100%)

2018-2019 Executive Committee Members:

Louis Santiago, Chair
Stephen Spindler, Biochemistry
Zhenyu Jia, Botany and Plant Sciences
Richard Hooley, Chemistry
Sandra Kirtland Turner, Earth and Planetary Sciences
Alec Gerry, Entomology
Samantha Ying, Environmental Sciences
Timothy Higham, Evolution, Ecology and Organismal Biology
Feng Xu, Mathematics
Shou-Wei Ding, Microbiology and Plant Pathology
Jeffrey Bachant, Molecular, Cell and Systems Biology
Paul De Ley, Nematology
Frederick Hamann, Physics and Astronomy
Shujie Ma, Statistics
Kathryn Uhrich, Dean of the College of Natural and Agricultural Sciences: Ex Officio
Connie Nugent, Divisional Dean of the College, Student Academic Affairs: Ex Officio
Frances Sladek, Divisional Dean of the College, Life Sciences: Ex Officio
Timothy Paine, Divisional Dean of the College, Agricultural and Natural Resources: Ex Officio
José Wudka, Divisional Dean of the College, Physical Sciences: Ex Officio

Executive Committee
Graduate School of Education
Annual Report to the Riverside Division
December 3, 2019

To be received and placed on file:

The Executive Committee of the Graduate School of Education met formally nine times during 2018-2019 Academic Year (AY).

I.   Degrees and credentials awarded:
   o **Undergraduate/Baccalaureate degree in Education, Society, and Human Development - 74**
       - Community Leadership, Policy, and Social Justice track- 18
       - Learning and Behavioral Sciences track- 42
       - Comparative track- 14
   o **Minor in Education, Society, and Human Development- 71**

   o **Teacher Education Program - 103**
       - Credential only – 16
           • Biology – 1
           • Education Specialist - 1
           • English - 4
           • Foundational Mathematics/Mathematics - 4
           • Multiple Subject- 4
           • Social Science - 2
       - Master's in Education (M.Ed.) + Teacher Credential – 87
           • Biology - 3
           • Chemistry - 4
           • Education Specialist - 6
           • English - 16
           • Fdn. Math/Math - 6
           • Multiple Subject - 33
           • Multiple Subject + BILA - 3
           • Social Science – 16
   o Graduate Students-
       - M.Ed.- 107
       - M.A.- 11
       - Ph.D.- 10

II. 2018-2019 GSOE Selected Highlights:

   o GSOE celebrated its 50th year as a School at UC Riverside. A reception was hosted in the community to bring together alumni and friends of the GSOE from over the past half-century to witness a series of faculty education talks on current research in the School.

   o During this academic year, the GSOE made two new hires: Dr. Rican Vue, an Assistant Professor in our Higher Education program area and another for a Visiting Professor in School Psychology, Dr. Kathleen King. Dr. King will help support the advising and

teaching efforts in the School Psychology program over the course of the 2019-2020 year as the program runs an open recruitment for two open rank faculty in School Psychology.

o GSOE, in partnership with Riverside County Office of Education and San Bernardino County Superintendent of Schools, was awarded a Local Solutions Grant to address the shortage of teachers across California. Scholars receive $25,000 in awards, $20,000 of which comes out of the Local Solutions funding and must be "earned" through four subsequent years of service as a special education teacher in either of the two county districts.

o A new Center for Educational Transformation (CET) was launched by Interim Dean Louie Rodriguez. The CET is committed to equity-driven, visionary, and social justice-oriented work that aims to explore, highlight, and learn from region-wide examples of policy, practice, and pedagogy for the purpose of serving as a national model for community-engaged research.

o GSOE had 28 presenters at the American Educational Research Association (AERA) Annual Meeting in Toronto including faculty, students and lecturers. Three faculty were also presented with prestigious honors including: Dr. Thomas M. Smith, 2019 Fellow of the AERA, Dr. Louie Rodriguez who received an AERA Hispanic Research Issues SIG on Research in Elementary, Secondary, or Postsecondary Education Award, and Dr. John Levin who received AERA"s Exemplary Research Award.

o The Civic Engagement Research Group (CERG) was established by the Ted and Jo Dutton Presidential Professor for Education, Policy and Politics, and Director, Joe Kahne, Ph.D. CERG's goal is to monitor trends, frame priorities, and develop an evidence base regarding effective civic education practices and policies.

o GSOE was the first academic unit on campus to transition their website as part of the campus-wide Drupal migration. The newly designed, user-friendly site provides an enhanced online experience for prospective and current students, community, and partners, and spotlights our faculty research, stellar programs, and news. Google Analytics has shown that the redesign was a success, marking a decreased bounce rate with more time spent on pages by users.

o An ad-hoc Faculty Welfare Committee was created to advise the Dean on matters concerning the welfare of the faculty. These committee is co-chaired by the GSOE/SPP Equity Advisor Professor Margaret Nash and Associate Dean of Personnel Affairs Jan Blacher.

o A new Master's degree program in Neuroscience and Education was approved by the Senate which provides students with a unique specialization and expertise in the emerging field of educational neuroscience. The first enrolled student began Fall 2019.

o The GSOE hosted its Inaugural GSOE Colloquium, a series aimed at cultivating professional development and networking opportunities for junior faculty by inviting experts in the field of education to campus to deliver lectures and engage with the GSOE community.

- The GSOE's new undergraduate program, Education, Society and Human Development, has 450 enrollments going into its third year. As a result, a new undergraduate advisor, Richard Rangel was hired. This enormously popular program has a majority (70%) of Latinx students, many of whom intend to become educators in the communities where they grew up.

III. Executive Committee Membership (2018-2020):

Executive Committee Members, 2018- 2019:
Margaret Nash, Chair (Sabbatical, Winter, 2019)
Joe Kahne, Chair Winter Quarter
John Wills
Raquel Rall
Celeste Pilegard

Thomas Smith, Dean, *ex officio*
JerMara Davis-Welch, Assistant Dean and Director, Teacher Education, *ex-officio*

Executive Committee Memvers, 2019-2020:
Joe Kahne, Chair
Rita Kohli
Raquel Rall, (Fall, Winter)
Uma Jayakumar (Spring)
Katherine Stavropoulos
Austin Johnson

Louie F. Rodriguez, Interim Dean, *ex officio*
JerMara Davis-Welch, Assistant Dean and Director, Teacher Education, *ex-officio*

EXECUTIVE COMMITTEE
SCHOOL OF BUSINESS
ANNUAL REPORT TO THE RIVERSIDE DIVISION
December 3, 2019

The Executive Committee of the School of Business met seven times during the 2018-2019 academic year.

1. Scholarship Decisions
   A. Degrees Awarded

Master of Business Administration

Fall Quarter 2018	93
Winter Quarter 2019	90
Spring Quarter 2019	81

Master of Business Administration, Professional MBA

Fall Quarter 2018	99
Winter Quarter 2019	86
Spring Quarter 2019	75

Master of Professional Accountancy

Fall Quarter 2018	25
Winter Quarter 2019	21
Spring Quarter 2019	18

Master of Finance

Fall Quarter 2018	34
Winter Quarter 2019	31
Spring Quarter 2019	28

Master of Arts, Management

Fall Quarter 2018	0
Winter Quarter 2019	0
Spring Quarter 2019	0

Doctor of Philosophy

Fall Quarter 2018	11
Winter Quarter 2019	11
Spring Quarter 2019	11

Bachelor of Science in Business Administration

Summer Session 2018	83
Fall Quarter 2018	68
Winter Quarter 2019	102
Spring Quarter 2019	539

Total   792

B. Students on Probation, 2018-2019
   Master of Business Administration
        Subject to dismissal   9(includes those actually dismissed)
        Dismissed   1

   Master of Business Administration, Professional MBA
        Subject to dismissal   10 (includes those actually dismissed)
        Dismissed   2

   Master of Professional Accountancy
        Subject to dismissal   5
        Dismissed   1

   Master of Finance
        Subject to dismissal   12
        Dismissed   3

   Doctor of Philosophy
        Subject to dismissal   2
        Dismissed   1

   Bachelor of Science in Business Administration
        Subject to dismissal   18F - 17
                                     19W- 30
                                     19S – 18

        Dismissed   18F - 0
                         19W- 4
                         19S - 21

Courses and Curriculum

C. Courses: Management
     i. New courses   4
        1. Management: 4
                MGT 219 Spreadsheet modeling for decision-making
                MGT 234 Brand management
                MGT 242 Global marketing management
                MGT 243 Entrepreneurial marketing

2. Business Administration: 0

ii. Course revisions
1. Management: 9
MGT 201 Quantitative Analysis
MGT 209 Marketing Management
MGT 212 Application of behavioral economics to
Management, decision-making, and policy
MGT 228 Consumer behavior
MGT 247 Advertising and sales promotion management
MGT 251 Marketing analytics
MGT 253 Digital marketing
MGT 257 Marketing strategy
MGT 271 Quantitative Decision Making & Analysis

2. Business Administration: 28
BUS 100W Management writing and communication
BUS 101 Information technology management
BUS 102 Ethics and law in business and society
BUS 103 Marketing and distribution management
BUS 104 Decision analysis and management science
BUS 106 Introduction to financial management
BUS 107 Organizational behavior
Bus 108 Financial evaluation and managerial analysis
BUS 109 Competitive and strategic analysis
BUS 117 Advertising and integrated marketing
communications
BUS 118 Digital marketing
BUS 119 Data-driven marketing
BUS 121 Employee Benefits
BUS 123 Spreadsheet modeling for decision-making
BUS 126 Practical Business Forecasting
BUS 143 Judgement and Decision Making
BUS 144 Negotiation Fundamentals
BUS 145 Conflict and Cooperation in Groups
BUS 146 Introduction to Entrepreneurship
BUS 148 Business Plan Development
BUS 149 Advanced Topics in Management and Decision-
Making
BUS 150 Corporate Strategic Analysis in Multi-Business
Firms
BUS 152 Sales management
BUS 155 Managing Human Resources
BUS 156 Leadership Development
BUS 157 Managing work force diversity
BUS 169A Auditing

BUS 170 Financial Statement Analysis

iii. Course deletions
1. Management: 0

2. Business Administration: 2
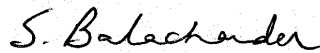
BUS 100 Management communication
BUS 122 Linear programming with applications

2019- Executive Committee

Elected Members:

Elected Members:
Subramanian Balachander (Chair) 2019-2021
Shana Hong (ACCT) 2019-2021
Michael Haselhuhn (MGT) 2018-2020
Richard Smith (FIN) 2019-2021
Elodie Goodman (OSCM) 2018-2020
Ashutosh Prasad (MKT) 2019-2021
Yunzeng Wang (Dean - ex-officio member)
Elaine Wong (Associate Dean – non-voting ex-officio member)
Barry Mishra (Associate Dean – non-voting ex-officio member)
John Haleblian (Associate Dean – non-voting ex-officio member)

S. Balachander

_____
Bala Balachander, for the Executive Committee

EXECUTIVE COMMITTEE
SCHOOL OF PUBLIC POLICY
ANNUAL REPORT TO THE RIVERSIDE DIVISION

December 3, 2019

The Executive Committee of the School of Public Policy (SPP) conducted electronic meetings on numerous occasions during the 2018-2019 academic year.

1. Courses Proposals

    A. New Courses:
         i. PBPL 010: Introduction to GIS
        ii. PBPL 274: Social Innovation Theory

    B. Modified courses:
         i. PBPL 001: Introduction to Public Policy Analysis – change of course type – online for ILTI
        ii. PBPL 197: Research for Undergraduates – removed ANTH 180A as pre-req as course was discontinued
       iii. PBPL 280: Special Topics in Public Policy – change of grading basis

2018-2019 Executive Committee:

    Steven Brint (Chair)
    Bruce Link (Interim Chair from 9/1/18-12/31/18)
    Ariel Dinar (Vice Chair)
    Qingfang Wang (Parliamentarian)
    Cecilia Ayon (Member)
    Bruce Babcock (Member)

**THE GRADUATE DIVISION AND EXECUTIVE
COMMITTEES OF THE COLLEGES
REPORT TO THE DIVISION
DECEMBER 3, 2019**

To be received and placed on file:

Reports of Degrees Awarded - Winter 2019

Bourns College of Engineering
     Bachelor of Science:...67

College of Humanities, Arts and Social Sciences
     Bachelor of Arts: 252
     Bachelor of Science:...10

College of Natural and Agricultural Sciences
     Bachelor of Arts: 9
     Bachelor of Science:...97

School of Business Administration
     Bachelor of Science:...102

Report of Degrees Awarded – Spring 2019

Bourns College of Engineering
     Bachelor of Science:...365

College of Humanities, Arts and Social Sciences
     Bachelor of Arts: 1,205
     Bachelor of Science:...96

College of Natural and Agricultural Sciences
     Bachelor of Arts: 19
     Bachelor of Science:...699

School of Business Administration
     Bachelor of Science:...539

School of Medicine
     MD:..39
     PhD:...3

Graduate Division
     Master of Arts: 33
     Master of Business Administration: 92
     Master of Education:...76
     Master of Finance 18
     Master of Fine Arts:..29
     Master of Professional Accountancy 12

Master of Public Policy... 16
Master of Science: 67
Doctor of Philosophy:... 89

Report of Degrees Awarded – Summer 2019

Graduate Division
Master of Arts: 11
Master of Business Administration: 2
Master of Education:... 14
Master of Finance: 6
Master of Fine Arts:.. 4
Master of Public Policy... 1
Master of Science: 47
Doctor of Philosophy:... 93

The names of the candidates are filed in the official records of the Office of the Registrar.

K. Esterling Secretary-Parliamentarian
Riverside Division of the Academic Senate

<u>To be received and placed on file:</u>
The Committee on Courses has approved the following courses.

Action:	Course:	Cross-listed Course(s):	Title:	Units:	Course Renumbered:
Undergraduate Courses:					
Change	ART 003		INTRODUCTION TO PHOTOGRAPHIC PROCESSES	5 Units	
Change	ART 185		SENIOR EXHIBITION SEMINAR	4 Units	
Change	BUS 102		ETHICS AND LAW IN BUSINESS AND SOCIETY	4 Units	
Change	BUS 106	ECON 134	INTRODUCTION TO FINANCIAL MANAGEMENT	4 Units	
Change	BUS 117		ADVERTISING AND INTEGRATED MARKETING COMMUNICATIONS	4 Units	
Change	BUS 132		FOUNDATIONS OF FINANCE	4 Units	
Change	CHEM 150A		INORGANIC CHEMISTRY	4 Units	
Change	CHEM 166		ADVANCE ORGANIC CHEMISTRY: SYNTHESIS AND METHODS	4 Units	
Change	CHN 115 (E-Z)		READNGS IN 13-19 CEN CHN LIT	4 Units	
Change	CS 171		INTRODUCTION TO MACHINE LEARNING AND DATA MINING	4 Units	
Change	EDUC 010		PRINCIPALS OF LEARNING STRATEGIES	4 Units	
Change	EDUC 023		INTRODUCTION TO EDUCATION POLICY	4 Units	
Change	EDUC 162		LEARNING THEORY AND PSYCHOLOGY IN EDUCATION	4 Units	
Change	EE 005		CIRCUITS AND ELECTRONICS	4 Units	
Change	EE 010		INTRODUCTION TO ELECTRICAL ENGINEERING	2 Units	
Change	EE 153		ELECTRIC DRIVES	4 Units	
Change	ENTM 139	MCBL 139	THE EVOLUTION OF CONFLICT AND COOPERATION: CHEATERS AND ALTRUISTS	4 Units	
Change	ETST 118		AMERICAN INDIAN IDENTITIES	4 Units	
Change	GEO 102A		SUMMER FIELD GEOLOGY	8 Units	
Change	GEO 102B		SUMMER FIELD GEOLOGY	1 Unit	
Change	GER 001R		GERMAN FOR READING KNOWLEDGE	4 Units	
Change	GER 002R		GERMAN FOR READING KNOWLEDGE	4 Units	
Change	GER 100		INTRODUCTION TO GERMAN LITERATURE	4 Units	
Change	GER 103B		ADVANCED COMPOSITION AND CONVERSATION	4 Units	
Change	GSST 151	ANTH 188	ISLAM, WOMEN, AND THE STATE	4 Units	
Change	GSST 173		GENDER AND CLIMATE CHANGE	4 Units	
Change	GSST 181		FEMINISMS AND ENVIRONMENTALISMS	4 Units	
Change	GSST 191A		SEMINAR IN GENDER AND SEXUALITY STUDIES: FEMINIST EPISTEMOLOGIES	4 Units	
Change	GSST 191B		SEMINAR IN GENDER AND SEXUALITY STUDIES: FEMINIST RESEARCH METHODS	4 Units	
Change	ITAL 125G		STUDIES IN ITALIAN LITERATURE	4 Units	
Change	ITAL 125S		STUDIES IN ITALIAN LITERATURE	4 Units	
Change	ITAL 125T		STUDIES IN ITALIAN LITERATURE	4 Units	
Change	MCBL 128		FIELD MYCOLOGY: ECOLOGY, EVOLUTION, AND DIVERSITY OF FUNGI	4 Units	
Change	MSE 003L		GENERAL MATERIALS LABORATORY FALL	1 Unit	
Change	MSE 136	BIEN 136	TISSUE ENGINEERING	4 Units	
Change	MUS 001		BASIC MUSICAL CONCEPTS	4 Units	
Change	MUS 010		ADVANCED FUNDAMENTALS	4 Units	
Change	MUS 031A		MUSIC THEORY AND MUSICIANSHIP I	4 Units	
Change	PSYC 011		PSYCHOLOGICAL METHODS: STATISTICAL PROCEDURES	5 Units	
Change	PSYC 012		PSYCHOLOGICAL METHODS: RESEARCH PROCEDURES	6 Units	
Change	SFCS 001		INTRODUCTION TO SPECULATIVE FICTION AND CULTURES OF SCIENCE	4 Units	SFTS 001
Change	SFCS 193		SENIOR SEMINAR IN SPECULATIVE FICTION AND CULTURES OF SCIENCE	4 Units	SFTS 193
Discontinue	BIOL 139		THE EVOLUTION OF CONFLICT AND COOPERATION: CHEATERS AND ALTRUISTS	4 Units	ENTM 139
Discontinue	BLSC 192H		JUNIOR HONORS SEMINAR	2 Units	
Discontinue	BLSC 193H		SENIOR HONORS SEMINAR	2 Units	
Discontinue	BLSC 195H		SENIOR HONORS THESIS	1 to 4 Units	
Discontinue	BLSC 198H		JUNIOR HONORS RESEARCH	1 to 4 Units	
New	AHS 125		ILLUSTRATIONS AND ILLUMINATIONS: THE ARTS OF THE BOOK IN THE ISLAMIC WORLD	4 Units	
New	AHS 126		SULTANS AND SAINTS: THE VISUAL AND MATERIAL CULTURE OF ISLAM IN SOUTH ASIA	4 Units	

Committee on Courses
Report to the Riverside Division
December 3, 2019

<u>To be received and placed on file:</u>
The Committee on Courses has approved the following courses.

Action:	Course:	Cross-listed Course(s):	Title:	Units:	Course Renumbered:
New	BIEN 111		ADVANCED STATISTICAL METHODS AND RESEARCH DESIGN FOR BIOENGINEERING	4 Units	
New	CAH 100		CAHUILLA LITERATURE AND LINGUISTICS	4 Units	
New	CHEM 155		ADVANCED INORGANIC CHEMISTRY: SYNTHESIS AND METHODS	4 Units	
New	EDUC 111 (E-Z)		EDUCATIONAL PSYCHOLOGY	4 Units	
New	ENTM 198I		INDIVIDUAL INTERNSHIP IN ENTOMOLOGY	1 to 12 Units	
New	ETST 119		ISSUES IN TWENTIETH CENTURY AND CONTEMPORARY NATIVE AMERICAN ART	4 Units	
New	FREN 026	CPLT 026; GSST 026	INTRODUCTION TO LITERATURE, FILM, AND ART BY FRENCH AND FRANCOPHONE WOMEN	4 Units	
New	GSST 129		FEMINIST CRITIQUES OF MILITARIZATION	4 Units	
New	HISA 145 (E-Z)		TOPICS IN AFRICAN AMERICAN HISTORY	4 Units	
New	HIST 088		DIGITAL STORYTELLING: MAPPING CITY LIFE	4 Units	
New	MCBL 129		HOST RESPONSES TO VIRAL PATHOGENS	4 Units	
New	MSE 002L		GENERAL MATERIALS LABORATORY SPRING	1 Unit	
New	MSE 004L		GENERAL MATERIALS LABORATORY WINTER	1 Unit	
New	MSE 142		CORROSION SCIENCE	4 Units	
New	MSE 143		FAILURE ANALYSIS AND PREVENTION	4 Units	
New	MSE 148		ADVANCED SOLIDIFICATION PROCESSING	4 Units	
New	SPN 130		DIGITAL DIALECTOLOGY	4 Units	
Restore	ITAL 140	EUR 140	ITALIAN LITERATURE OF THE HOLOCAUST IN TRANSLATION	4 Units	
Split	GEO 101A		FIELD GEOLOGY	3 Units	GEO 101
Split	GEO 101B		FIELD GEOLOGY	3 Units	GEO 101

Graduate Courses:

Action:	Course:	Cross-listed Course(s):	Title:	Units:	Course Renumbered:
Change	BPSC 225 (E-Z)		ADVANCED TOPICS IN PLANT BIOLOGY	2 Units	
Change	CS 203		ADVANCED COMPUTER ARCHITECTURE	4 Units	
Change	CS 213		MULTIPROCESSOR ARCHITECTURE AND PROGRAMMING	4 Units	
Change	EE 255	CS 251	REAL-TIME EMBEDDED SYSTEMS	4 Units	
Change	ENTX 200	CHEM 246; ENSC 200	FATE AND TRANSPORT OF CHEMICALS IN THE ENVIRONMENT	4 Units	
Change	MGT 212		APPLICATION OF BEHAVIORAL ECONOMICS TO MANAGEMENT, DECISION-MAKING, AND POLICY	4 Units	
Change	MSE 218	ME 278	IMPERFECTIONS IN SOLIDS	4 Units	
Change	MSE 248A	ME 272	NANOSCALE SCIENCE AND ENGINEERING	4 Units	MSE 248
Change	MSE 248B	ME 266	MECHANICS AND PHYSICS OF MATERIALS	4 Units	MSE 208
Change	PBPL 280		SPECIAL TOPICS IN PUBLIC POLICY	4 Units	
Change	POSC 214		POLITICAL ECONOMY OF INTERNATIONAL TRADE	4 Units	
Change	POSC 230		RESEARCH COLLOQUIUM IN POLITICAL SCIENCE	1 Unit	
Change	POSC 264		SEMINAR IN INTERNATIONAL POLITICAL ECONOMY	4 Units	
New	ANTH 211		AFRO-LATINO(A) ETHNOGRAPHY	4 Units	
New	ANTH 228		LITHIC ANALYSIS	4 Units	
New	BIEN 211		ADVANCED STATISTICS AND RESEARCH DESIGN FOR BIOENGINEERING	4 Units	
New	BIEN 276	PSYC 276	INTRO TO NEUROIMAGING WITH MRI	4 Units	
New	BPHY 252		SEMINAR IN BIOPHYSICS	1 Unit	
New	BPHY 290		DIRECTED STUDIES	1 to 6 Units	
New	BPHY 296		SPECIAL TOPICS IN BIOPHYSICS	1 to 2 Units	
New	BPHY 297		DIRECTED RESEARCH	1 to 6 Units	
New	BPHY 299		THESIS OR DISSERTATION	1 to 12 Units	
New	BPSC 244		SPECIES DISTRIBUTION MODELING	4 Units	
New	CS 216		ADVANCED CRYPTOGRAPHY	4 Units	
New	CS 247		PRINCIPLES OF DISTRIBUTED COMPUTING	4 Units	
New	CWPA 226		CONTEMPORARY AMERICAN THEATRE	4 Units	
New	ENGR 204		PROJECTS PORTFOLIO MANAGEMENT	4 Units	
New	MCBL 228		FIELD MYCOLOGY	5 Units	
New	MGT 216		MANAGERIAL DECISION MAKING	4 Units	
New	MSE 233A		CORROSION SCIENCE	4 Units	
New	MSE 233B		FAILURE ANALYSIS AND PREVENTION	4 Units	
New	MSE 239A	CHEM 222; CEE 222	FUNDAMENTALS OF HETEROGENEOUS CATALYSIS	4 Units	
New	MSE 239B	CEE 224	SYNTHESIS AND CHARACTERIZATION OF NANOMATERIALS	3 Units	

To be received and placed on file:
The Committee on Courses has approved the following courses.

Action:	Course:	Cross-listed Course(s):	Title:	Units:	Course Renumbered:
New	MSE 239C	CEE 235	ELECTROCHEMICAL ENGINEERING	4 Units	
New	MSE 248C	ME 279	ADVANCED SOLIDIFICATION PROCESSING	4 Units	
New	PBPL 274		SOCIAL INNOVATION IN THEORY AND PRACTICE	4 Units	
New	POSC 269		POLITICAL ECONOMY OF INTERNATIONAL LABOR	4 Units	
New	POSC 275		NEW BOOKS IN COMPARATIVE POLITICS	4 Units	
New	PSYC 286E		PROSEMINAR IN PSYCHOLOGY	1 Unit	
New	PSYC 286F		PROSEMINAR IN PSYCHOLOGY	1 Unit	
New	RLST 203		ANALYTICS OF POWER	4 Units	
New	RLST 204		HISTORY AND HERMENEUTICS	4 Units	
New	RLST 205		TRANSNATIONAL RELIGIONS	4 Units	

Extension Courses:

Course	MGT X105.12		Disney Supervised Training, Part I
Course	MGT X105.13		Disney Supervised Training, Part II
Instructor	ENGL XL 33.B		Itermediate English as a Second Language, Crystal Dhar, M.A.
Instructor	EDUC X81		Role of Home, School and Community in Early Childhood Education, Monica Lopez Castilo, M.A.
Instructor	EDUC X83.01		Observation and Assessment of Children's Behavior, Monica Lopez Castilo, M.A.
Instructor	EDUC X83.01		Observation and Assessment of Children's Behavior, Neven Darweesh, M.S.
Instructor	EDUC X87.01		Health, Nutrition and Safety in Early Childhood, Neven Darweesh, M.S.
Instructor	EDUC X87.45		Education and Care of Infants and Toddlers, Barbara Easton, M.S.
Instructor	EDUC X87.45		Infant and Toddler Development, Robin Rae Fairfield, Doctor of Education
Instructor	EDUC X87.46		Infant and Toddler Developmentally Appropriate Classroom Practice, Barbara Easton, M.S.
Instructor	EDUC X87.46		Infant and Toddler Developmentally Appropriate Classroom Practices, Robin Rae Fairfield, Doctor of Education
Instructor	EDUC X88.63		Education and Care of Infants and Toddlers, Robin Rae Fairfield, Doctor of Education
Instructor	EDUC X88.63		Education and Care of Infants and Toddlers, Barbara Easton, M.S.
Instructor	MGT X105.12		Disney Supervised Training, Part I, Catherine Davis Dickey, B.A.
Instructor	MGT X105.12		Disney Supervised Training, Part I, Neha Singh, Ph.D.
Instructor	MGT X105.12		Disney Supervised Training, Part I, Rey O'Day, B.S.
Instructor	MGT X105.13		Disney Supervised Training, Part II, Catherine Davis Dickey, B.A.
Instructor	MGT X105.13		Disney Supervised Training, Part II, Neha Singh, Ph.D.
Instructor	MGT X105.13		Disney Supervised Training, Part II, Rey O'Day, B.S.
Instructor	CS X201.2		Data Analytics Technologies, Kemal Oflus, M.S.

COMMITTEE ON COURSES
REPORT TO THE RIVERSIDE DIVISION
DECEMBER 3, 2019

To be received and placed on file:

The Committee on Courses has approved requests to allow the following instructors to teach upper division courses as indicated:

INSTRUCTOR	**DEPARTMENT/SCHOOL**	**LIMITS OF AUTHORIZATION**	
Ramos, F.	Anthropology	ANTH 162	SS'19 A
Richardson, K.	Anthropology	ANTH 165F	SS'19 A
Santasilia, C.	Anthropology	ANTH 158	SS'19 B
Seng, S.	Anthropology	ANTH 127	SS'19 B
Robinson, C.	Art History	AHS 181	SS'19 A
Chen, C.	Economics	ECON 124	SS'19 B
Kim, S.	Economics	ECON 102	SS'19 B
Kutateladze, V.	Economics	ECON 107	SS'19 A
Mehrabani, A.	Economics	ECON 104B	SS'19 B
Mehrabani, A.	Economics	ECON 130	SS'19 A
Nguyen, H.	Economics	ECON 178	SS'19 A
Parsaeian, S.	Economics	ECON 105B	SS'19 A
Parsaeian, S.	Economics	ECON 135	SS'19 B
Ro, Y.	Economics	ECON 153	SS'19 A
Ro, Y.	Economics	ECON 160	SS'19 B
Seregina, E.	Economics	ECON 105A	SS'19 A
Wang, T.	Economics	ECON 162	SS'19 B
Yang, Y.	Economics	ECON 181	SS'19 B
Zhang, S.	Economics	ECON 103	SS'19 A
Zhao, P.	Economics	ECON 171	SS'19 B
Cook, C.	Electrical & Computer Engineering	EE/CS 120A	F'19
Cook, C.	Electrical & Computer Engineering	EE/CS 120A	W'20
Manshel, H.	English	ENGL 103	F'19
Blake, I.	Ethnic Studies	ETST 131	SS'19 A
Lan, L.	Ethnic Studies	ETST 170	SS'19 A
Perez, F.	Ethnic Studies	ETST 132	SS'19 B
Phan, J.	Ethnic Studies	ETST 137	SS'19 B
Britton. J.	Math	MATH 149	SS'19 A
Carrillo, B.	Math	MATH 144	SS'19 A
Hendersen, A.	Math	MATH 146	SS'19 A
McNulty, M.	Math	MATH 145	SS'19 B
Ta, R.	Math	MATH 131	SS'19 A
Howerton, J.	Media and Cultural Studies	MCS 172	SS'19 B
Howerton, R.	Media and Cultural Studies	MCS 172	SS'19 A
Johns, E.	Music	MUS 140	SS'19 B
Laforce, D.	Philosophy	PHIL 151	SS'19 B
Law, A.	Philosophy	PHIL 112	SS'19 A
Law, A.	Philosophy	PHIL 133	F'19
MacDonald, A.	Philosophy	PHIL 111	SS'19 B
McCoy, M.	Philosophy	LWSO 193	SS'19 A
Nelson, D.	Philosophy	PHIL 117	SS'19 A
Smith, J.	Philosophy	PHIL 164	SS'19 B
Alamillo, R.	Political Science	POSC 158	SS'19 A
Crespo, R.	Political Science	POSC 173	SS'19 A
El-Khatib, S.	Political Science	POSC 146	SS'19 B
Gregory, C.	Political Science	POSC 129	SS'19 B
Kehlenbach, S.	Political Science	POSC 112	SS'19 B
Kono, D.	Political Science	POSC 111	SS'19 A
Lauterbach, E.	Political Science	POSC 168	SS'19 B
Luartz, L.	Political Science	POSC 164	SS'19 B
Morales, V.	Political Science	POSC 126	SS'19 B
Osorio, M.	Political Science	POSC 160	SS'19 B

INSTRUCTOR	DEPARTMENT/SCHOOL	LIMITS OF AUTHORIZATION	
Pimenta, GA.	Political Science	POSC 150	SS'19 A
Teten, P.	Political Science	POSC 108	SS'19 A
Tuncez, BH.	Political Science	POSC 143	SS'19 A
Coulombe, B.	Psychology	PSYC 160	SS'19 A
Gardiner, G.	Psychology	PSYC 150	SS'19 B
Knapp, S.	Psychology	PSYC 115	SS'19 A
Lesage, K.	Psychology	PSYC 163	SS'19 A
Miller, B.	Psychology	PSYC 132	SS'19 A
Rankin, K.	Psychology	PSYC 178	SS'19 B
Rankin, K.	Psychology	PSYC 178	F'19
Sillars, A.	Psychology	PSYC 189	SS'19 A
Stepanyan, S.	Psychology	PSYC 152	SS'19 A
Tran, B.	Psychology	PSYC 178	SS'19 B
Tran, B.	Psychology	PSYC 179	SS'19 A
Tran, B.	Psychology	PSYC 179	W'20
Walsh, L.	Psychology	PSYC 149	SS'19 A
Kushida, M.	Sociology	SOC 173	SS'19 B
Kushida, M.	Sociology	SOC 174	SS'19 A
McCoy, J.	Sociology	SOC 168	SS'19 A
Monterossa, A.	Sociology	SOC 130	SS'19 A
Morosin, A.	Sociology	SOC 122	SS'19 A
Murray, S.	Sociology	SOC 149	SS'19 B
Murray, S.	Sociology	SOC 180	SS'19 A
Neal, T.	Sociology	SOC 151	SS'19 A
Pruneda, E.	Sociology	SOC 143	SS'19 A
Yoo, M.	Sociology	SOC 142	SS'19 A
Seng, S.	Southeast Asian Studies	SEAS 136	SS'19 A
Cappiello, L.	Statistics	STAT 100A	SS'19 E
Cappiello, L.	Statistics	STAT 100B	F'19

COMMITTEE ON COURSES
REPORT TO THE RIVERSIDE DIVISION
DECEMBER 3, 2019

To be received and placed on file:

The Committee on Courses has approved the following course proposals for deletion, which have been listed in the General Catalog, but for at least four years, have not been offered, been offered with zero enrollment, or have been offered but canceled for deletion with the concurrence of the departments involved.

This following lists courses that were deleted and identified in the 2018-2019 Academic Year as part of the courses not offered for four or more year's process.
 BLSC 192H
 BLSC 193H
 BLSC 195H
 BLSC 198H

Courses previously approved for deletion:

BUS 100	CMDB 220	CS 121	EE 227	ENTM 207	NRSC 201
BUS 122	CMDB 208	CS 121L		ENTM 227	NRSC 210
		CS 134		EMTM 229	
		CS 245			
		CS 261			
		CS 262			
		CS 263			

This following lists courses that were deleted and identified in the 2016-2017 Academic Year as part of the courses not offered for four or more year's process.
CPLT 153

Courses previously approved for deletion:

AHS 102	ETST 091	ME 001A	RLST 007W	RLST 103	SOC 006	ENTX 200L
AHS 134	ETST 104	ME 001B	RLST 009	RLST 105	SOC 126	ENTX 211
AHS 148	ETST 134	ME 001C	RLST 012W	RLST 134	SOC 138	
AHS 164	ETST 138		RLST 012X	RLST 140	SOC 211	
AHS 174	ETST 150		RLST 013	RLST 164	SOC 235	
AHS 187	ETST 179		RLST 039	RLST 167	SOC 252	
				RLST 168	SOC 279	
				RLST 170		
				RLST 174		
				RLST 184		

Courses scheduled to be approved for deletion:

RLST 124 (E-Z)	RLST 145
RLST 124G	RLST 158
RLST 124K	RLST 173

Cherysa P Cortez

From:	Shannon Timmons on behalf of Provost
Sent:	Tuesday, September 03, 2019 11:21 AM
To:	dylanr@ucr.edu; Leondra Michelle Jacobs; Cherysa P Cortez
Cc:	Amit K. Roy-Chowdhury; Provostadmin
Subject:	Request for Name Change for CRIS Center - Bourns College of Engineering
Attachments:	RE: CRIS Name change; Re: CRIS Name change; Fwd: CRIS Name change; Re: CRIS Name change; 20190827105006972.pdf

Good morning Dylan, Cherysa and Leondra.

Attached please find supporting documentation for a request to change the name of the CRIS Program in the Bourn's College of Engineering, submitted for Academic Senate's review and approval.

Please contact Shannon Timmons at provostadmin@ucr.edu if you have questions or need additional information. The point of contact in BCOE is Amit Roy-Cowdhury at amitrc@ece.ucr.edu.

Thank you,

Thomas M Smith, Ph.D.
Interim Provost and Executive Vice Chancellor
Professor of Education
4148 Hinderaker Hall
University of California, Riverside
☎: 951.827.1129 | ✉: provost@ucr.edu

From: Amit K. Roy-Chowdhury <amitrc@ece.ucr.edu>
Sent: Monday, August 26, 2019 9:20 AM
To: Provost <provost@ucr.edu>
Cc: Chris Lynch <cslynch@engr.ucr.edu>; 'fabiopas@engr.ucr.edu' <fabiopas@engr.ucr.edu>; dylanr@ucr.edu; Gillian Wilson <gillianw@ucr.edu>; Matthew Hull <matthew.hull@ucr.edu>; Provostadmin <provostadmin@ucr.edu>
Subject: Name change for CRIS Center

Dear Provost Smith,
I am attaching a request to change the name of the CRIS center from
Center for Research in Intelligent Systems
to
Center on Robotics and Intelligent Systems.
I recently started as the Director of the center, and have consulted with the Associate Director, the Advisory Board, and Dean Lunch. The attached memo provides an explanation for the name change. I look forward to hearing back from you soon. Please let me know if you need anything else from me.

Sincerely,
Amit

--
Amit Roy-Chowdhury

Professor and Bourns Family Faculty Fellow
Chair, Electrical and Computer Engineering
Cooperating Faculty, Computer Science
Director, Center for Research in Intelligent Systems
University of California, Riverside
951-827-7886
http://vcg.engr.ucr.edu/amit/

DATE: August 26, 2019

TO: Thomas Smith, Interim Provost and Executive Vice Chancellor
University of California, Riverside

THROUGH: Christopher Lynch, Dean (see attached email)
Bourns College of Engineering

FR: Amit Roy-Chowdhury, Professor and Director
Center for Research in Intelligent Systems

RE: Request to a name change for the CRIS center

As the new Director of the CRIS center, and after consultation with the Associate Director and Advisory Board, we propose to change the name of the center from Center for Research in Intelligent Systems to **Center on Robotics and Intelligent Systems**. This provides a better description of the activities of the center, while keeping the same acronym. There is no change in the mission of the center. There have been a number of faculty hired in robotics and associated areas over the last few years, and it is expected to be a future growth area within BCoE. Robotics is also closely tied with advances in machine intelligence and data science, where there is significant presence at UCR. The center facilitates interactions between researchers working on the foundational principles of robotics and those interested in the application areas. The name change highlights the scope of the center within and outside UCR more clearly.

The Board of Advisors for the center approved of the name change. Dean Lynch supports the name change (see attached letter).

CC: Matthew Hull,
Associate Vice Chancellor
Financial Planning and Analysis

Fabio Pasqualetti,
Associate Professor and Associate Director
Center for Research in Intelligent Systems

Dylan Rodriguez,
Chair of the Academic Senate
Riverside Division

Gillian Wilson,
Interim Vice Chancellor for Research
Office of Research and Economic Development

Attachment

From:	Amit K. Roy-Chowdhury
To:	dylanr@ucr.edu; Cherysa P Cortez
Subject:	RE: Request for Name Change for CRIS Center - Bourns College of Engineering
Date:	Tuesday, September 03, 2019 5:54:43 PM

Dylan and Cherysa:

Please note that CRIS is a research center, not a program. The center does not run any academic program.

Amit

From: Shannon Timmons [mailto:shannon.timmons@ucr.edu] **On Behalf Of** Provost
Sent: Tuesday, September 3, 2019 11:21 AM
To: dylanr@ucr.edu; Leondra Michelle Jacobs <leondra.jacobs@ucr.edu>; Cherysa P Cortez <cherysa.cortez@ucr.edu>
Cc: Amit K. Roy-Chowdhury <amitrc@ece.ucr.edu>; Provostadmin <provostadmin@ucr.edu>
Subject: Request for Name Change for CRIS Center - Bourns College of Engineering

Good morning Dylan, Cherysa and Leondra.

Attached please find supporting documentation for a request to change the name of the CRIS Program in the Bourn's College of Engineering, submitted for Academic Senate's review and approval.

Please contact Shannon Timmons at provostadmin@ucr.edu if you have questions or need additional information. The point of contact in BCOE is Amit Roy-Cowdhury at amitrc@ece.ucr.edu.

Thank you,

Thomas M Smith, Ph.D.
Interim Provost and Executive Vice Chancellor
Professor of Education
4148 Hinderaker Hall
University of California, Riverside
☎: 951.827.1129 | ✉: provost@ucr.edu

From: Amit K. Roy-Chowdhury <amitrc@ece.ucr.edu>
Sent: Monday, August 26, 2019 9:20 AM
To: Provost <provost@ucr.edu>
Cc: Chris Lynch <cslynch@engr.ucr.edu>; 'fabiopas@engr.ucr.edu' <fabiopas@engr.ucr.edu>; dylanr@ucr.edu; Gillian Wilson <gillianw@ucr.edu>; Matthew Hull <matthew.hull@ucr.edu>; Provostadmin <provostadmin@ucr.edu>
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to

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I recently started as the Director of the center, and have consulted with the Associate Director, the Advisory Board, and Dean Lunch. The attached memo provides an explanation for the name change.

I look forward to hearing back from you soon. Please let me know if you need anything else from me.

Sincerely,
Amit

--
Amit Roy-Chowdhury
Professor and Bourns Family Faculty Fellow
Chair, Electrical and Computer Engineering
Cooperating Faculty, Computer Science
Director, Center for Research in Intelligent Systems
University of California, Riverside
951-827-7886
http://vcg.engr.ucr.edu/amit/

Agreed.

From: Amit K. Roy-Chowdhury
Sent: Monday, August 26, 2019 11:16 AM
To: Jay Farrell <farrell@ece.ucr.edu>; Christian Shelton <cshelton@cs.ucr.edu>; Darrel Jenerette (darrel.jenerette@ucr.edu) <darrel.jenerette@ucr.edu>; Suveen Mathaudhu <smathaudhu@engr.ucr.edu>
Cc: 'fabiopas@engr.ucr.edu' <fabiopas@engr.ucr.edu>
Subject: CRIS Name change

Jay, Christian, Darrell, Suveen,
I am submitting the request to change the name of CRIS to Center on Robotics and Intelligent Systems, as we had discussed at our advisory board meeting. Can you please reply on whether you agree with the name change? I need to submit that with the request.

Thanks
Amit

Here you go - I replied to Jay instead of group.

Darrel

Darrel Jenerette
Director, Center for Conservation Biology
Professor, Department of Botany and Plant Sciences
University of California Riverside

Begin forwarded message:

From: Darrel Jenerette <gdjen@ucr.edu>
Date: August 26, 2019 at 2:50:55 PM EDT
To: Jay Farrell <farrell@ece.ucr.edu>
Subject: Re: CRIS Name change

I agree. It's subtle but valuable change.

Darrel

Darrel Jenerette
Director, Center for Conservation Biology
Professor, Department of Botany and Plant Sciences
University of California Riverside

On Aug 26, 2019, at 11:43 AM, Jay Farrell <farrell@ece.ucr.edu> wrote:

Agreed.

From: Amit K. Roy-Chowdhury
Sent: Monday, August 26, 2019 11:16 AM
To: Jay Farrell <farrell@ece.ucr.edu>; Christian Shelton
<cshelton@cs.ucr.edu>; Darrel Jenerette (darrel.jenerette@ucr.edu)
<darrel.jenerette@ucr.edu>; Suveen Mathaudhu
<smathaudhu@engr.ucr.edu>
Cc: 'fabiopas@engr.ucr.edu' <fabiopas@engr.ucr.edu>
Subject: CRIS Name change

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I am submitting the request to change the name of CRIS to Center on Robotics and Intelligent Systems, as we had discussed at our advisory board meeting. Can you please reply on whether you agree with the name change? I need to submit that with the request.

Thanks
Amit

Agreed! Sounds good to me.

S

Suveen N. Mathaudhu, FASM
Associate Professor
Chair - Materials Science and Engineering Program
Mechanical Engineering Department
University of California – Riverside
T: 951-827-4414
e: smathaudhu@engr.ucr.edu

Chief Scientist
Energy and Environment Directorate
Pacific Northwest National Laboratory
T: 509-375-6475
e: suveen.mathaudhu@pnnl.gov

From: "Amit K. Roy-Chowdhury" <amitrc@ece.ucr.edu>

Date: Monday, August 26, 2019 at 11:15 AM

To: Jay Farrell <farrell@ece.ucr.edu>, Christian Shelton <cshelton@cs.ucr.edu>, "Darrel Jenerette (darrel.jenerette@ucr.edu)" <darrel.jenerette@ucr.edu>, Suveen Mathaudhu <smathaudhu@engr.ucr.edu>

Cc: "'fabiopas@engr.ucr.edu'" <fabiopas@engr.ucr.edu>

Subject: CRIS Name change

Jay, Christian, Darrell, Suveen,
I am submitting the request to change the name of CRIS to Center on Robotics and Intelligent Systems, as we had discussed at our advisory board meeting. Can you please reply on whether you agree with the name change? I need to submit that with the request.

Thanks
Amit

I agree.

        -Christian

Christian Shelton
Professor, Computer Science
University of California, Riverside

On Mon, Aug 26, 2019 at 06:15:49PM +0000, Amit K. Roy-Chowdhury wrote:
> Jay, Christian, Darrell, Suveen,
> I am submitting the request to change the name of CRIS to Center on Robotics and Intelligent Systems, as we had discussed at our advisory board meeting. Can you please reply on whether you agree with the name change? I need to submit that with the request.
>
> Thanks
> Amit
>
>
>
>

UNIVERSITY OF CALIFORNIA

October 21, 2019

To: Dylan Rodriguez, Chair
        Riverside Division

From: Djurdjica Coss, Chair
        Committee on Research

RE: Campus Review: [ORU Name Change] From Center for Research in Intelligent
Systems (CRIS) to Center on Robotics and Intelligent Systems (CRIS)

The Committee on Research reviewed the proposed name change and had no comments.

GRADUATE COUNCIL

October 17, 2019

To: Dylan Rodriguez, Chair
         Riverside Division

From: Jason Stajich, Chair
         Graduate Council

**Re: [Campus Review] ORU Name Change: From Center for Research in
         Intelligent Systems (CRIS) to Center on Robotics and Intelligent Systems
         (CRIS)**

Graduate Council discussed the proposed ORU name change from the Center for
Research in Intelligent Systems (CRIS) to the Center on Robotics and Intelligent Systems
(CRIS) and was supportive of the proposed change.

UC RIVERSIDE
UNIVERSITY OF CALIFORNIA

**Marlan and Rosemary Bourns
College of Engineering**

Marlan and Rosemary Bourns College of Engineering
446 Winston Chung Hall
900 University Avenue
Riverside, CA 92521

November 18, 2019

To: Dylan Rodriguez, Chair
        Riverside Division

From: Philip Brisk, Chair
        Bourns College of Engineering Executive Committee

Re: CRIS Center Renaming

Dear Dylan,

At the November 18 meeting of the BCOE Executive Committee, we considered a proposal to rename the Center for Research in Intelligent Systems (CRIS) to the Center on Robotics and Intelligent Systems (CRIS).

The BCOE Executive Committee discussed the proposal, and unanimously voted to rename the center to the Center for Robotics and Intelligent Systems (CRIS). (Please note that the Committee's recommendation differs from the proposed change: "Center **for**" in lieu of "Center **on**").

Professor Amit Roychoudhary, the Center Director, was present for the discussion and agreed with the proposed change. One of the Committee members did a Google search and discovered that "Center for …" is a significantly more common naming convention than "Center on …" for academic research centers.

Sincerely,

Philip Brisk

UC RIVERSIDE | Academic Senate

EXECUTIVE COUNCIL

October 29, 2019

To: Thomas M. Smith
        Interim Provost & Executive Vice Chancellor

From: Dylan Rodríguez, Chair
        Riverside Division

**Re: The Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer
          Research in the School of Medicine**

Dear Provost Smith,

At its October 28, 2019 meeting, Executive Council discussed and had no objection to the establishment of the subject proposed endowed chair. I attach, however, important comments regarding the proposal from the Committee on Academic Personnel, Committee on Planning & Budget, and the Committee on Diversity, Equity, & Inclusion.

Peace
dylan

cc: Peter Hayashida, Vice Chancellor for University Advancement
        Pay Kohlmeier, Executive Director of UCR Foundation and Donor Relations

Maurizio Pellecchia, Ph.D.
Professor of Biomedical Sciences
School of Medicine Research Building
Office 317
900 University Avenue
Riverside, CA 92521
Tel 951.827.7829
www.medschool.ucr.edu

Riverside, June 7, 2019
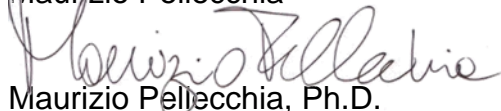
To: Dr. Deborah Deas, Dean, UCR School of Medicine

From: Maurizio Pellecchia, Ph.D., Chair, Faculty Executive Committee, UCR School of Medicine

Subject: The *Bruce D. and Nancy B. Varner* Presidential Endowed Chair in Cancer Research

Dear Deborah, on behalf of the faculty of the SOM, the Executive Committee is fully supportive of the establishment of *The Bruce D. and Nancy B. Varner* Presidential Endowed Chair in Cancer Research at our School. The Varner's family generous gift will allow the SOM to continue building on its current strengths in basic, translational, and clinical sciences faculty, as well as to support the infrastructure for our research enterprise.

Kind regards,
Maurizio Pellecchia
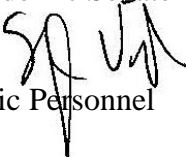
Maurizio Pellecchia, Ph.D.
Professor of Biomedical Sciences
Chair, Faculty Executive Committee
School of Medicine Research Building Office 317
900 University Avenue Riverside, CA 92521
Tel 951.827.7829
molmed.ucr.edu

UC RIVERSIDE | Academic Senate

COMMITTEE ON ACADEMIC PERSONNEL

September 30, 2019

To: Dylan Rodriguez
           Riverside Division Academic Senate

From: Sherryl Vint, Chair
           Committee on Academic Personnel

Re: Endowed Chair Proposal: The Bruce D. and Nancy B. Varner Presidential
           Endowed Chair in Cancer Research in the School of Medicine

At its meeting on September 30, 2019, CAP reviewed the documents supporting the Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research in the School of Medicine. CAP felt the proposal fit the campus mission and a field of research already present at UCR. CAP was enthusiastic about the establishment of this new Presidential Chair and voted in favor if the proposal (+9-0-0).

October 18, 2019

To: Dylan Rodriguez, Chair
     Riverside Division

From: Harry Tom, Chair
     Committee on Planning and Budget

Re: **Endowed Chair Proposal: The Bruce D. & Nancy B. Varner Presidential Endowed Chair in Cancer Research in the SoM**

The Committee on Planning and Budget (P&B) discussed the Endowed Chair proposal at their October 15, 2019 meeting and noticed that the document states the endowed chair is to be reserved for faculty retention or recruitment efforts. P&B supports the endowed chair proposal but notes that there may be budgetary impacts for the campus for recruitments and that the proposal does not discuss them.

UCRIVERSIDE | Academic Senate

COMMITTEE ON DIVERSITY, EQUITY, AND INCLUSION

October 18, 2019

To: Dylan Rodriguez
               Riverside Division Academic Senate

From: Xuan Liu, Chair
               Committee on Diversity, Equity, and Inclusion

Re: Endowed Chair Proposal: *The Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research in the School of Medicine*

The Committee on Diversity, Equity, and Inclusion considered the proposal for the establishment of the Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research in the School of Medicine and recommends the proposal be modified to include a diversity, equity, and inclusion plan.

July 24, 2019

Dylan Rodriguez, Chair, UCR Academic Senate

Subj: Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research (SOM); for review
         by the UCR Academic Senate

For review by the appropriate committees of the Academic Senate in order to issue their
recommendation for the *Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research* in
the School of Medicine.

This chair has been recommended by the Mark and Pam Rubin Dean and Chief Executive Officer for
Clinical Affairs in the School of Medicine, Deborah Deas, M.D., M.P.H.

Attached are:

Initial Request for Approval
Donor Background/Varner Family Bio
Statement of Consultation with the Faculty
Gift Agreement

We would appreciate a response with the Academic Senate Executive Council's recommendation as
soon as possible.

Thank you,

Thomas M. Smith
Interim Provost and Executive Vice Chancellor

cc: Cherysa Cortez, Executive Director, Academic Senate

REQUEST TO ESTABLISH A NAMED ENDOWED CHAIR

Task	Completed Date
☐ **Dean/unit head** completes and forwards materials to Development	6/19/19
☐ **VC Advancement** and **AVC Development** review and approve	AVC - 6/20/19 / VC 6/24/19
☐ **Provost/EVC** reviews and approves	7/1/19
☐ *[VC Planning & Budget reviews if budgetary impact]*	
☐ **Academic Senate** consultation/recommendations	
☐ **Chancellor** reviews and approves	
☐ **UC President** provides final endowed chair approval	

==*FIELDS WILL EXPAND AS YOU TYPE. [TAB] KEY WILL MOVE CURSOR TO NEXT FIELD*==

REQUEST

College/School/Unit: UCR School of Medicine
☒ Check here if location of FTE is within the same unit, otherwise specify:
Unit head name/title:
Endowment gift type: ☐ Distinguished Professorship
(CHECK ONE) ☒ Endowed Chair
☐ Term Chair
☐ Visiting Professorship
Proposed use: An endowed chair in the UCR School of Medicine for cancer research, under the direction of the Dean

ACADEMIC INFORMATION

Academic Justification – explain how the endowment fits into the unit's academic plan:
The Varners' generous gift to establish this chair will allow SOM to continue building on its current strengths in basic/clinical science to support the SOM research enterprise – further detailed in the UCR School of Medicine's Strategic Plan 2016-2020, "Health Starts Here" (http://medschool.ucr.edu/pdf/UCR_SOM_2016-2020_Strategic_Plan.pdf)

Resources – describe the resources that will be necessary to support the proposed chair (e.g., FTE and other funding.) Please refer to the unit's academic plan as appropriate:

This new chair will help SOM reach stated goals to build on its existing base of translational and basic science research. As the inaugural chair is anticipated to be a current UCR faculty member, no additional resources are needed – as opposed to recruiting a new faculty member for the chair where a faculty line, space and startup would be required. The UC Office of the President has approved matching funds ($500,000) from the UC Presidential Endowed Chair program.

Distributions from the Fund shall be used to assist preeminent UCR researchers to catalyze cancer discovery, improve patient outcomes, personalize interventions, and frame healing within the prevention and wellness philosophy embraced by our School of Medicine. The expendable distribution from the Matching Fund shall be used to provide the appointed chair holder a scholarly allowance to support research and teaching. Chair holders will be appointed

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according to the UC Riverside Policy and Procedures on Endowed Chairs: Establishment, Administration, and Appointment of Faculty.

The establishment of the Endowed Chair will comply with current policies of the University, UCR, and the Foundation.

Term Limits

☒ Five Years and Renewable (Standard terms per UCR Policy and Procedures on Endowed Chairs and Professorships)

☐ Other – explain:

GIFT/DONOR INFORMATION

Total Gift Amount: $1,000,000

☐ Outright cash gift made on *(date)*:

☒ Written pledge commencing on *(date)*: 5/10/2019, to be fulfilled on *(date)*: 12/31/2020
   Initial contribution/pledge payment expected on *(date)*: 12/31/2018

Donor name and UCR affiliation: Bruce D. Varner and Nancy B. Varner/ Regent Emeritus
   Varner is the former chair of the UC Board of Regents or
   Will this gift/pledge be anonymous without publicity? ☐ Yes ☒ No

Donor's background:

Bruce and Nancy Varner are lifelong residents of the Inland Empire and noted community leaders.

Bruce D. Varner, Founding Partner of Varner & Brandt LLP, is a corporate attorney practicing in the areas of general business, corporate, real estate, banking and transactional law. He received his B.A. degree in political science from the University of California, Santa Barbara and his Juris Doctorate with honors from University of California, Hastings College of the Law. His dedication and work ethic make him a key player in the Inland Empire's business world and his friends use words like integrity, intelligence, and intensity to describe him. He has served as a Director several entities including Security Bank of California and currently serves as a Director of Stater Bros. Markets, among others.

Bruce was appointed to the University of California Board of Regents in 2006 by Governor Schwarzenegger. He served a 12-year term, including two years as Chair of the Board of Regents and was named an Emeritus Regent. In addition to volunteering for and supporting numerous community organizations and charities, Bruce served 25 years as a Trustee of the UCR Foundation (1994-2019).

Nancy Varner is a founding member of the Loma Linda University Children's Hospital Foundation Board and a co-founder of Big Hearts for Little Hearts Guild, which helps support Loma Linda University Children's Hospital. She is a founding member of Inland Women Fighting Cancer and co-chair of the annual Believe Walk in Redlands which raises funds to support cancer patients in the local community. She has also held leadership positions with Santa Claus, Inc. and the Assistance League of San Bernardino and, with Bruce, has supported a wide variety of community organizations that enhance the quality of life in communities throughout the Inland region, including the Community Foundation, the Riverside Art

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Museum, the Boys and Girls Club of San Bernardino, the University of Redlands, California State University San Bernardino, and the National Orange Show. Nancy received her Registered Nurse degree from Loma Linda University. Nancy Varner lost her courageous battle with cancer on June 1, 2019.

Proposed chair name: Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research

☐ Check here if naming is honorary

UNIT/UCR/UC COMMITMENT

Will any *additional* college, campus-wide or system-wide resources be sought/ required (e.g., space, special facilities, equipment, etc.)?

☒ No

☐ Yes. Describe source of additional resources:

☒ Existing FTE

☐ New FTE – please explain how this is provided for in unit academic plan:

CERTIFICATIONS

On behalf of the unit, I certify the following:
- The intellectual independence of the chair holder's scholarly activities is assured.
- If the donation is being made anonymously, I attest to the experience, character, and reputation of the donor.
- The faculty member who is appointed to this chair will be notified of the annual reporting requirement as specified in UCR Policy 500-15: Policy and Procedures on Endowed Chairs: Establishment, Administration, and Appointment of Faculty

I have attached the following documents:
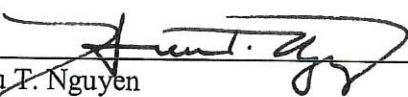
☒ Letter from the college/school executive committee or department chair(s) on behalf of the affected departments, as defined by consultation between the dean and the chair of the college/school executive committee, endorsing this proposal.

☐ If naming is honorific, confirmation is attached that the honoree (if living) or honoree's family (if honoree is deceased) has agreed to the naming.
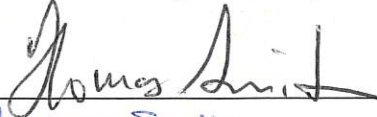
_____   6/19/19
Deborah Deas   Date
Mark and Pam Rubin Dean & CEO Clinical Affairs, UCR School of Medicine

APPROVALS

_____   6.20.2019
Hieu T. Nguyen   Date
Associate Vice Chancellor, Development

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_____   6/24/19
Peter A. Hayashida   Date
Vice Chancellor, University Advancement

_____   7|1|19
Thomas Smith   Date
Interim Provost and Executive Vice Chancellor

CHANCELLOR TRANSMITTAL

TO: Janet Napolitano, President, University of California

I recommend the establishment of this endowed chair at UC Riverside, as detailed in the attached supporting materials.

This proposed chair has been reviewed and approved by the Academic Senate and the Provost/Executive Vice Chancellor.

_____   _____
Kim A. Wilcox   Date
Chancellor, University of California, Riverside

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UC RIVERSIDE
UNIVERSITY OF CALIFORNIA
Foundation

Gift Agreement between BRUCE D. AND NANCY B. VARNER,
the U. C. RIVERSIDE FOUNDATION
and THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
To Establish the Bruce D. and Nancy B. Varner Presidential
Endowed Chair in Cancer Research

I.   INTRODUCTION

Bruce D. and Nancy B. Varner pledge irrevocably to give the UC Riverside Foundation (the "Foundation"), a California nonprofit public benefit corporation, with the conditions and purposes contained in this document, cash or marketable securities having a fair market value on the dates of the gifts in the aggregate amount of $1,000,000 ("Gift Funds") to establish the Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research Fund ("Fund") for use at the Riverside campus ("UCR") of the Regents of the University of California (the "University"). The University will establish a matching fund of $500,000 to be named the Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research Matching Fund ("Matching Fund"). Collectively, the funds shall be referred to as the "Chair Funds." Upon receipt of the gift from the Donors, the Foundation and UCR shall administer the gift and the endowed chair in accordance with this agreement.

BACKGROUND

Bruce and Nancy Varner are lifelong residents of the Inland Empire and noted community leaders.

Bruce D. Varner, Founding Partner of Varner & Brandt LLP, is a corporate attorney practicing in the areas of general business, corporate, real estate, banking and transactional law. He received his B.A. degree in political science from the University of California, Santa Barbara and his Juris Doctorate with honors from University of California, Hastings College of the Law. His dedication and work ethic make him a key player in the Inland Empire's business world and his friends use words like integrity, intelligence, and intensity to describe him. He has served as a Director of several entities including Security Bank of California and currently serves as a Director of Stater Bros. Markets among others.

Bruce was appointed to the University of California Board of Regents in 2006 by Governor Schwarzenegger. He served a 12-year term, including two years as Chair of the Board of Regents and was named an Emeritus Regent. In addition to volunteering for and supporting numerous community organizations and charities, Bruce served 25 years as a Trustee of the UCR Foundation (1994-2019).

Nancy Varner is a founding member of the Loma Linda University Children's Hospital Foundation Board and a co-founder of Big Hearts for Little Hearts Guild, which helps support Loma Linda University Children's Hospital. She is a founding member of Inland Women

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Fighting Cancer and co-chair of the annual Believe Walk in Redlands which raises funds to support cancer patients in the local community. She has also held leadership positions with Santa Claus, Inc. and the Assistance League of San Bernardino and, with Bruce, has supported a wide variety of community organizations that enhance the quality of life in communities throughout the Inland region, including the Community Foundation, the Riverside Art Museum, the Boys and Girls Club of San Bernardino, the University of Redlands, California State University San Bernardino, and the National Orange Show. Nancy received her Registered Nurse degree from Loma Linda University.

II.   ESTABLISHMENT OF FUND

This fund shall be established when:

A. The Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research, a true endowment to be held by the Foundation, shall be established when this agreement has been reviewed, signed, and dated by the Donors and an appropriate university official and has been fully funded by the Donors.

B. In addition to their gift of $300,000 in December 2018, the Donors agree to make two pledge payments for a total gift of $1,000,000 according the following schedule:

> Pledge payment of $350,000 by 12/31/2019
> Pledge payment of $350,000 by 12/31/2020

The payments on this pledge shall be used to establish the Fund, which is to benefit and support the UCR School of Medicine, in accordance with established University policy. We acknowledge that this pledge may not be satisfied in whole or in part by distributions from a private foundation, charitable remainder trust or donor advised fund. We understand that the Foundation will send reminder notices for pledge payments.

C. In recognition of the Foundation's and UCR's intent to rely upon this commitment, we agree that this commitment is a binding and enforceable claim against our estate and successors.

D. The Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research Matching Fund, a fund functioning as an endowment to be held by the University, shall be established upon formal approval of the Chair by the President of the University. Approval will be contingent upon full funding of the Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research.

E. Subject to approval through the appropriate policy and procedure of UCR and the University and pending receipt of funds equivalent to the minimum requirement for endowed chairs, the Chair will be named the Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research.

F. The Foundation advises the Donors to obtain tax advice regarding this gift.

G. Additions to the Fund can be made at any time.

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III. PURPOSE AND USE OF ENDOWMENT
A. General Purpose
The expendable distribution from this endowment will provide support for an endowed chair in the UCR School of Medicine under the direction of the Dean, and in accordance with established University policies and procedures.

The expendable distribution from the Fund shall be used to recruit and retain preeminent UCR scholars to conduct basic and applied cancer research, improve patient outcomes, personalize interventions, and frame healing within the prevention and wellness philosophy that is a driving value of the UCR School of Medicine. The expendable distribution from the Matching Fund shall be used to provide the appointed chair holder a scholarly allowance to support research and teaching. Chair holders will be appointed according to the UC Riverside Policy and Procedures on Endowed Chairs: Establishment, Administration, and Appointment of Faculty.

The establishment of the Endowed Chair will comply with current policies of the University, UCR, and the Foundation. If, in the judgment of the Chancellor, the designated use of endowment payout is impractical or impossible, then the Chancellor may, in consultation with the Donors when possible, use endowment payout for such other purposes at UCR as s/he determines to be consistent with the Donor's interests and intentions provided in this agreement.

IV. ADMINISTRATION OF FUND

A. The Chair Funds will be administered in accordance with the UCR Policies and Procedures on Endowed Chairs: Establishment, Administration, and Appointment of Faculty.

B. The expendable distribution from the Chair Funds will be determined periodically under the terms of the Endowment Expenditure Policy as established by the Foundation and the University.

C. Payout from the Chair Funds will be transferred to the University, to be made available to the chair holder, in support of teaching, research, and service activities under the direction of the Dean of the School of Medicine in accordance with University policy.

D. Total return earned by the Chair Funds in excess of the amount approved for distribution shall be retained in the Chair Funds' principal to protect the Chair Funds from the effects of inflation and to allow for growth. Any unexpended distribution from the previous year may be combined with that of the current year for spending purposes or added to the Chair Fund principals. The principal of the Chair Funds may be combined with other Funds for investment purposes.

Fiduciary responsibility for governance and investment of this endowment is vested in The UCR Foundation Board of Trustees and the Chief Investment Officer of the University.

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E. In the unlikely event that the Bruce D. and Nancy B. Varner Presidential Endowed Chair in Cancer Research does not meet the pledged amount, the Chancellor of UCR is authorized to re-designate the purpose of this Fund, taking into consideration the Donors' expressed wishes as to the designated purpose described in this document.

F. As is customary with universities and other non-profit organizations across the country, a one-time gift fee is applied to each pledge payment (gift) in order to provide essential support to UCR's advancement program. We understand that the fee is currently 5%. In addition, administrative fees will be charged in accordance with UCR policy.

V.   STEWARDSHIP

An endowed fund is testament to the value the Donors place on intellectual and scientific achievement. During their lifetime, Donors will receive periodic stewardship reports from the University on the Fund.

The Donors agree that this Fund, their names, and the amount of their gift may be used in University communications to allow UCR to recognize the Donors' generosity and inspire others.

ACCEPTANCES:

_____   May 10, 2019
Bruce D. Varner, Donor   Date
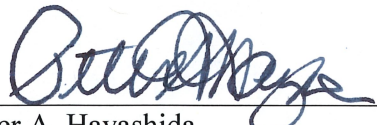
_____   May 10, 2019
Nancy B. Varner, Donor   Date

_____   5/10/19
Deborah V. Deas, Dean   Date
UCR School of Medicine

_____   5/10/19
Peter A. Hayashida   Date
President, UCR Foundation

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Bruce D. and Nancy B. Varner

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EXECUTIVE COUNCIL
REPORT TO THE RIVERSIDE DIVISION
December 3, 2019

To be received and placed on file:

The Executive Council reports the following items that were approved in lieu of the Division, as per Senate Bylaw 8.5.3

Approved by the 2019-2020 Executive Council:

      University Honors Notation on Student Transcripts

From:	Bracken Janette Dailey
To:	Cherysa P Cortez
Cc:	Aaron Bushong; Honorsdirector
Subject:	Change request for placement on transcript - University Honors
Date:	Friday, June 21, 2019 4:39:57 PM
Attachments:	Registrar"s Office Memo - Placement of University Honors Notation.docx
	Current version_University Honors.pdf
	Proposed version_University Honors.pdf
	image001.png

Cherysa,

Please find attached a memo from University Honors requesting that the location of the University Honors notation be moved on the transcript. The Registrar's Office has produced two transcripts to accompany this request. The first demonstrates the current location at the end of the transcript in the student's last term of attendance and the proposed version demonstrates their desire to have it relocated to the beginning of the transcript. To my knowledge, there is not any policy that governs the location, only that a student can earn the designation which would then be present on the transcript, see the catalog description below:

General Catalog – page 533
Completion of an approved capstone project, and satisfaction of
all other University Honors requirements, will
qualify a student for graduation with University
Honors distinction, which is noted on the official
transcript.

If approved the Registrar's Office would make this effective for the next appropriate graduating class.

I appreciate the review of the Senate to determine if this relocation is acceptable. If you have any additional follow up questions, please don't hesitate to let me know.

Thank you
Bracken

Bracken Dailey | Registrar
900 University Avenue
2249 Student Services Building | Riverside, CA 92521-0118
Office: 951.827.3427 | Fax: 951.827.7368
E-mail: Bracken.Dailey@ucr.edu | Web: Registrar.ucr.edu

Get ready for the 10-Minute Time Shift! Beginning fall quarter 2019, UCR classes will start and end 10 minutes earlier. This means all classes will start on the hour or half hour and your academic day starts and ends 10 minutes earlier too. Check your schedule and don't be late!

Memo

To: Bracken Dailey

From: Aaron Bushong

Date: June 20, 2019

Re: Placement of University Honors Notation

In order to increase the prominence associated with graduation from UCR with University Honors distinction, University Honors respectfully requests that the placement of the University Honors notation on a student's official transcript be moved from its current location, at the bottom of the transcript, following a student's final term at UCR, to the top of the transcript.

SSN:

Record of:

Date of Birth:

Date Issued: 21-JUN-2019
OFFI

Page: 1

Issued To: Bracken Dailey

Course Level: Undergraduate

Program
Bachelor of Arts
      College : Humanities, Arts, and Soc Sci
      Major : Political Science

Degree Awarded Bachelor of Arts 15-JUN-2018
in
      College : Humanities, Arts, and Soc Sci
      Major : Political Science
  Inst. Honors: With Highest Honors

Capstone Project
The ... A
Con ... tern
Mig ... gua

Title of Project (handwritten overlay)

SUBJ	NO.	COURSE TITLE	CRED	GRD	PTS	R

TRANSFER CREDIT ACCEPTED BY THE INSTITUTION:

06/15-08/15   Chaffey College

SUBJ	NO.	COURSE TITLE	CRED	GRD	PTS
POSC	010	AMERICAN POLITICS	4.50	TA	

Ehrs: 4.50 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00

INSTITUTION CREDIT:

Fall 2014
SUBJ	NO.	COURSE TITLE	CRED	GRD	PTS
ENGL	004	ENGLISH WRITING	4.00	C+	9.20
ENGL	004L	ENGLISH WRITING	1.00	S	0.00
POSC	015	COMPARATIVE POLITICS	5.00	A	20.00
SOC	011	INTRO TO APPLIED DEMOGRAPHY	4.00	A	16.00

Ehrs: 14.00 GPA-Hrs: 13.00 QPts: 45.20 GPA: 3.47

Winter 2015
SUBJ	NO.	COURSE TITLE	CRED	GRD	PTS
ENGL	001A	BEGINNING COMPOSITION	4.00	A-	14.80
PHYS	006	THE VIOLENT UNIVERSE	4.00	A	16.00
POSC	020	WORLD POLITICS	5.00	A+	20.00
RLST	005	INTRODUCTN TO ASIAN RELIGIONS	4.00	A-	14.80

****************** CONTINUED ON NEXT COLUMN ******************

SUBJ	NO.	COURSE TITLE	CRED	GRD	PTS	R

Institution Information continued:
    Ehrs: 17.00 GPA-Hrs: 17.00 QPts: 65.60 GPA: 3.85
Dean's Honors List

Spring 2015
SUBJ	NO.	COURSE TITLE	CRED	GRD	PTS
CS	008	INTRODUCTION TO COMPUTING	4.00	A+	16.00
ENGL	001B	INTERMEDIATE COMPOSITION	4.00	A	16.00
RLST	010	INTRODUCTION TO THE BIBLE	5.00	A	20.00

Ehrs: 13.00 GPA-Hrs: 13.00 QPts: 52.00 GPA: 4.00
Dean's Honors List

Summer 2015
SUBJ	NO.	COURSE TITLE	CRED	GRD	PTS
ECON	002	INTRO TO MACROECONOMICS	5.00	A+	20.00

Ehrs: 5.00 GPA-Hrs: 5.00 QPts: 20.00 GPA: 4.00

Fall 2015
SUBJ	NO.	COURSE TITLE	CRED	GRD	PTS
CS	006	EFFECTVE USE OF WRLD WIDE WEB	4.00	A+	16.00
ETST	001H	HON INTRO TO RACE & ETHNICITY	4.00	A	16.00
HNPG	002A	PRINCIPLES OF CIVIC ENGAGEMENT	2.00	A+	8.00
PHYS	037	THE ORIGINS	4.00	A	16.00

Ehrs: 14.00 GPA-Hrs: 14.00 QPts: 56.00 GPA: 4.00
Dean's Honors List

Winter 2016
SUBJ	NO.	COURSE TITLE	CRED	GRD	PTS
HIST	010	WORLD HIST:PREHISTORY TO 1500	4.00	A+	16.00
HNPG	150	RESRCH&CREATV ACT ACROSS DISCP	2.00	S	0.00
MCS	010	INTRO TO CULTURAL STUDIES	4.00	A	16.00
MUS	001	BASIC MUSICAL CONCEPTS	4.00	A	16.00
TFDP	010	INTRO TO ACTING	4.00	A	16.00

Ehrs: 18.00 GPA-Hrs: 16.00 QPts: 64.00 GPA: 4.00
Dean's Honors List

Spring 2016
SUBJ	NO.	COURSE TITLE	CRED	GRD	PTS
BIOL	030	HUMAN REPRO&SEXUAL BEHAV	4.00	A	16.00
CS	005	INTRO TO COMPUTER PROGRAMMING	4.00	A+	16.00
SOC	001	INTRODUCTION TO SOCIOLOGY	4.00	A+	16.00

Ehrs: 12.00 GPA-Hrs: 12.00 QPts: 48.00 GPA: 4.00
Chancellor's Honors List

SSN:

Record of:
Level:

Date of Birth:

Date Issued: 21-JUN-2019
OFFI

Page: 2

SUBJ NO.	COURSE TITLE	CRED	GRD	PTS	R

Institution Information continued:

Summer 2016

POSC 005	POLITICAL IDEOLOGIES	5.00	A+	20.00	
POSC 123	CONFLICT RESOLUTION	4.00	A	16.00	
POSC 158	POLITICS OF MEXICO	5.00	A	20.00	

Ehrs: 14.00 GPA-Hrs: 14.00 QPts: 56.00 GPA: 4.00

Fall 2016

HIST 19WV	THE HISTORIAN'S WRKSHP	4.00	A+	16.00	
POSC 150S	HUMAN RGHTS IN THRY,LAW& POLIT	5.00	A+	20.00	
POSC 198G	FIELD WORK	4.00	A+	16.00	

Ehrs: 13.00 GPA-Hrs: 13.00 QPts: 52.00 GPA: 4.00
Dean's Honors List

Winter 2017

DNCE 005	INTRODUCTION TO DANCE	4.00	A+	16.00	
POSC 157S	MODERN DICTATORSHIPS	5.00	A+	20.00	
POSC 173	GOVERNMT&POLITCS OF CALIFORNIA	4.00	A+	16.00	

Ehrs: 13.00 GPA-Hrs: 13.00 QPts: 52.00 GPA: 4.00
Dean's Honors List

Spring 2017

HNPG 151	INDIV PROJ RSRCH OR CREATV ACT	2.00	S	0.00	
POSC 188	POLITICAL VIOLENCE: LATIN AMER	4.00	A	16.00	
POSC 198G	FIELD WORK	4.00	A+	16.00	
TFDP 050S	PUBLIC SPEAKING	4.00	A+	16.00	

Ehrs: 14.00 GPA-Hrs: 12.00 QPts: 48.00 GPA: 4.00
Chancellor's Honors List

Fall 2017

BUS 156	LEADERSHIP DEVELOPMENT	4.00	A	16.00	
HNPG 197H	HONORS RESRCH - UNDERGRADUATES	3.00	A-	11.10	
POSC 159S	THE ARMED FORCES AND POLITICS	5.00	A+	20.00	

Ehrs: 12.00 GPA-Hrs: 12.00 QPts: 47.10 GPA: 3.92
Dean's Honors List

Winter 2018

| ECON 003H | HONORS:INTRO TO MICROECON | 5.00 | A+ | 20.00 | |

****************** CONTINUED ON NEXT COLUMN *****************

Institution Information continued:

| ETST 190 | SPECIAL STUDIES | 4.00 | A+ | 16.00 | |
| HNPG 197H | HONORS RESRCH - UNDERGRADUATES | 3.00 | A- | 11.10 | |

Ehrs: 12.00 GPA-Hrs: 12.00 QPts: 47.10 GPA: 3.92
Dean's Honors List

Spring 2018
UNIVERSITY HONORS

ETST 190	SPECIAL STUDIES	5.00	A+	20.00	
HNPG 195H	SENIOR HONORS THESIS	3.00	A	12.00	
POSC 198I	INDIV INTERNSHIP IN POL SCI	4.00	A+	16.00	

Ehrs: 12.00 GPA-Hrs: 12.00 QPts: 48.00 GPA: 4.00
Chancellor's Honors List

******************** TRANSCRIPT TOTALS ********************

	Earned Hrs	GPA Hrs	Points	GPA
TOTAL INSTITUTION	183.00	178.00	701.00	3.93
TOTAL TRANSFER	4.50	0.00	0.00	0.00
OVERALL	187.50	178.00	701.00	3.93

******************** END OF TRANSCRIPT ********************

SSN:

Record of:

Date of Birth:

Date Issued: 21-JUN-2019
OFFI

Page: 1

Issued To: Bracken Dailey

Course Level: Undergraduate

Program
Bachelor of Arts
College : Humanities, Arts, and Soc Sci
Major : Political Science

Comments:
UNIVERSITY HONORS

Degree Awarded Bachelor of Arts 15-JUN-2018
in
College : Humanities, Arts, and Soc Sci
Major : Political Science
Inst. Honors: With Highest Honors

Capstone Project
The   A
Con   Title of Project   tern
Mig   gua

SUBJ	NO.	COURSE TITLE	CRED GRD	PTS R

TRANSFER CREDIT ACCEPTED BY THE INSTITUTION:

06/15-08/15   Chaffey College

SUBJ	NO.	COURSE TITLE	CRED GRD	PTS R
POSC	010	AMERICAN POLITICS	4.50 TA	

Ehrs: 4.50 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00

INSTITUTION CREDIT:

Fall 2014
SUBJ	NO.	COURSE TITLE	CRED GRD	PTS R
ENGL	004	ENGLISH WRITING	4.00 C+	9.20
ENGL	004L	ENGLISH WRITING	1.00 S	0.00
POSC	015	COMPARATIVE POLITICS	5.00 A	20.00
SOC	011	INTRO TO APPLIED DEMOGRAPHY	4.00 A	16.00

Ehrs: 14.00 GPA-Hrs: 13.00 QPts: 45.20 GPA: 3.47

Winter 2015
SUBJ	NO.	COURSE TITLE	CRED GRD	PTS R
ENGL	001A	BEGINNING COMPOSITION	4.00 A-	14.80

*********************** CONTINUED ON NEXT COLUMN ***********************

SUBJ	NO.	COURSE TITLE	CRED GRD	PTS R

Institution Information continued:
PHYS	006	THE VIOLENT UNIVERSE	4.00 A	16.00
POSC	020	WORLD POLITICS	5.00 A+	20.00
RLST	005	INTRODUCTN TO ASIAN RELIGIONS	4.00 A-	14.80

Ehrs: 17.00 GPA-Hrs: 17.00 QPts: 65.60 GPA: 3.85
Dean's Honors List

Spring 2015
CS	008	INTRODUCTION TO COMPUTING	4.00 A+	16.00
ENGL	001B	INTERMEDIATE COMPOSITION	4.00 A	16.00
RLST	010	INTRODUCTION TO THE BIBLE	5.00 A	20.00

Ehrs: 13.00 GPA-Hrs: 13.00 QPts: 52.00 GPA: 4.00
Dean's Honors List

Summer 2015
| ECON | 002 | INTRO TO MACROECONOMICS | 5.00 A+ | 20.00 |

Ehrs: 5.00 GPA-Hrs: 5.00 QPts: 20.00 GPA: 4.00

Fall 2015
CS	006	EFFECTVE USE OF WRLD WIDE WEB	4.00 A+	16.00
ETST	001H	HON INTRO TO RACE & ETHNICITY	4.00 A	16.00
HNPG	002A	PRINCIPLES OF CIVIC ENGAGEMENT	2.00 A+	8.00
PHYS	037	THE ORIGINS	4.00 A	16.00

Ehrs: 14.00 GPA-Hrs: 14.00 QPts: 56.00 GPA: 4.00
Dean's Honors List

Winter 2016
HIST	010	WORLD HIST:PREHISTORY TO 1500	4.00 A+	16.00
HNPG	150	RESRCH&CREATV ACT ACROSS DISCP	2.00 S	0.00
MCS	010	INTRO TO CULTURAL STUDIES	4.00 A	16.00
MUS	001	BASIC MUSICAL CONCEPTS	4.00 A	16.00
TFDP	010	INTRO TO ACTING	4.00 A	16.00

Ehrs: 18.00 GPA-Hrs: 16.00 QPts: 64.00 GPA: 4.00
Dean's Honors List

Spring 2016
BIOL	030	HUMAN REPRO&SEXUAL BEHAV	4.00 A	16.00
CS	005	INTRO TO COMPUTER PROGRAMMING	4.00 A+	16.00
SOC	001	INTRODUCTION TO SOCIOLOGY	4.00 A+	16.00

SSN:

Record of: (
Level:

Date of Birth:

Date Issued: 21-JUN-2019
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Page: 2

SUBJ NO.	COURSE TITLE	CRED GRD	PTS R	SUBJ NO.	COURSE TITLE	CRED GRD	PTS R

Institution Information continued:

Ehrs: 12.00 GPA-Hrs: 12.00 QPts: 48.00 GPA: 4.00
Chancellor's Honors List

Summer 2016
POSC 005   POLITICAL IDEOLOGIES   5.00 A+   20.00
POSC 123   CONFLICT RESOLUTION   4.00 A   16.00
POSC 158   POLITICS OF MEXICO   5.00 A   20.00
Ehrs: 14.00 GPA-Hrs: 14.00 QPts: 56.00 GPA: 4.00

Fall 2016
HIST 19WV   THE HISTORIAN'S WRKSHP   4.00 A+   16.00
POSC 150S   HUMAN RGHTS IN THRY,LAW& POLIT   5.00 A+   20.00
POSC 198G   FIELD WORK   4.00 A+   16.00
Ehrs: 13.00 GPA-Hrs: 13.00 QPts: 52.00 GPA: 4.00
Dean's Honors List

Winter 2017
DNCE 005   INTRODUCTION TO DANCE   4.00 A+   16.00
POSC 157S   MODERN DICTATORSHIPS   5.00 A+   20.00
POSC 173   GOVERNMT&POLITCS OF CALIFORNIA   4.00 A+   16.00
Ehrs: 13.00 GPA-Hrs: 13.00 QPts: 52.00 GPA: 4.00
Dean's Honors List

Spring 2017
HNPG 151   INDIV PROJ RSRCH OR CREATV ACT   2.00 S   0.00
POSC 188   POLITICAL VIOLENCE: LATIN AMER   4.00 A   16.00
POSC 198G   FIELD WORK   4.00 A+   16.00
TFDP 050S   PUBLIC SPEAKING   4.00 A+   16.00
Ehrs: 14.00 GPA-Hrs: 12.00 QPts: 48.00 GPA: 4.00
Chancellor's Honors List

Fall 2017
BUS 156   LEADERSHIP DEVELOPMENT   4.00 A   16.00
HNPG 197H   HONORS RESRCH - UNDERGRADUATES   3.00 A-   11.10
POSC 159S   THE ARMED FORCES AND POLITICS   5.00 A+   20.00
Ehrs: 12.00 GPA-Hrs: 12.00 QPts: 47.10 GPA: 3.92
Dean's Honors List
******************** CONTINUED ON NEXT COLUMN ********************

Institution Information continued:

Winter 2018
ECON 003H   HONORS:INTRO TO MICROECON   5.00 A+   20.00
ETST 190   SPECIAL STUDIES   4.00 A+   16.00
HNPG 197H   HONORS RESRCH - UNDERGRADUATES   3.00 A-   11.10
Ehrs: 12.00 GPA-Hrs: 12.00 QPts: 47.10 GPA: 3.92
Dean's Honors List

Spring 2018
ETST 190   SPECIAL STUDIES   5.00 A+   20.00
HNPG 195H   SENIOR HONORS THESIS   3.00 A   12.00
POSC 198I   INDIV INTERNSHIP IN POL SCI   4.00 A+   16.00
Ehrs: 12.00 GPA-Hrs: 12.00 QPts: 48.00 GPA: 4.00
Chancellor's Honors List
********************* TRANSCRIPT TOTALS *********************

	Earned Hrs	GPA Hrs	Points	GPA
TOTAL INSTITUTION	183.00	178.00	701.00	3.93
TOTAL TRANSFER	4.50	0.00	0.00	0.00
OVERALL	187.50	178.00	701.00	3.93

********************* END OF TRANSCRIPT *********************

COMMITTEE ON PREPARATORY EDUCATION
REPORT TO THE RIVERSIDE DIVISION
DECEMBER 3, 2019

To be received and placed on file:

Report on the Entry-Level Writing Requirement: 2018-2019

In the fall of 2018, 59% of UCR's entering freshmen had satisfied the Entry-Level Writing Requirement before registering as full-time students. Many students passed the AWPE or the AP English exam, or took summer school. A large number of freshmen (33% in Fall 2018) came to UCR with AP credits that placed them in English 1B or 1C. Another 15% of the entering freshmen satisfied the ELWR by passing the Analytical Writing Placement Exam. The remaining 11% of entering freshmen satisfied the ELWR by way of the SAT (4%), the ACT (1%), an International Baccalaureate English exam (1%), earning transferable credit for English 1A from another institution (3%), or passing English 4 during the Highlander Early Start Academy (2%).

The remaining 41% placed in Entry-Level Writing courses. The great majority made good progress once they arrived at UCR.

2018 ELWR Students: Initial Placement

Colleges	English 1PA	English 4	Basic Writing 1 & 3 (ESL)	Total ELWR Students
BCOE	36	64	14	115
CNAS	113	433	83	629
CHASS	81	845	180	1106
GSOE	1	27	11	39
SPP	0	11	2	13
TOTAL	231	1380	291	1902

Of the 1380 students who placed into English Writing 4 in the fall, only thirteen were required to leave UCR at the end of the year solely for failure to satisfy the requirement. One additional student was required to leave UCR because they never took the Analytical Writing Placement Exam. Of the 62 remaining students initially placed in English 4 who did not satisfy the ELWR by the spring 2019 quarter, 42 were academically dismissed or left the university due to impending dismissal because of their overall academic records. Four students withdrew voluntarily from the university. Ten students satisfied the ELWR during the summer 2019 quarter. Two students' associate dean granted an additional quarter to satisfy the ELWR. Four students have time remaining in the ELWR time-limit because they withdrew from UCR for one or more quarters.

There were 231 additional students who placed into English Writing 4 in the fall and were invited to participate in English 1PA (Beginning Composition: Intensive). 185 of these students took and passed English 1PA to satisfy the ELWR and ENGL001A in the fall quarter. Forty-three students satisfied the ELWR by passing English 4. The remaining 3 students left the university before completing the ELWR.

A total of 291 entering freshmen initially placed in ESL classes. Since they were "off the clock" for up to their first three quarters of residence, no students among those placed in ESL classes in the fall of 2018 were required to leave UCR solely for failure to satisfy the ELWR. 147 ESL students satisfied the ELWR during their first year of residence. Of the remaining 144 ESL students, 5 satisfied the requirement during the summer of 2019. 115 continue to make progress in satisfying the ELWR. (They will have up to two years to satisfy the ELWR.) Twenty-one students have been academically dismissed or have left the university due to impending dismissal because of their overall academic records. Three students have withdrawn voluntarily from the university.

Update on Fall 2017 Basic Writing 1 and 3 Students

We have a more complete picture of BW 1 and BW3 students' progress when we look at the two-year records of students who placed in an ESL course when they entered UCR in the fall of **2017**. Of the 299 entering freshmen who were placed in ESL classes that year, 158 students satisfied the ELWR during their first year of residence. 80 students satisfied the ELWR during their second year of residence. Two students satisfied during the summer 2019 quarter. Of the remaining 59 ESL students, 25 students were academically dismissed or left the university due to impending dismissal on the basis of their overall records.   Six students withdrew from the university. **24 students in the ESL group that started in Fall 2017 were eventually required to leave UCR solely for failure to satisfy the ELWR. Five** of these ELWR-lapsed students have already been able to complete the requirement through UCRX and been re-admitted to UCR. In previous years, almost half of the ELWR-lapsed students were able to complete the requirement through UCRX and be re-admitted to UCR. We expect a similar result for this group. Four students have time remaining in the ELWR time-limit because they withdrew from UCR for one or more quarters.

2017 Basic Writing 1 & 3 (ESL) Admits Not Satisfying ELWR (listed according to initial placement)

Colleges	Total Basic Writing 1 & 3 (ESL) Students	Total BSWT 1 & 3 (ESL) Students; ELWR not satisfied	Academically Dismissed or Withdrew	Withdrew (in good standing)	ELWR Lapse	ELWR Lapse - Readmitted	Time Remains
BCOE	13	3	0	1	0	0	2
CNAS	101	15	8	2	4	1	0
CHASS	184	40	17	3	14	4	2
GSOE	1	1	0	0	1	0	0
TOTAL	299	59	25	6	19	5	4

IN PROGRESS: 2018 Admits Not Satisfying ELWR by end of Spring 2019 (listed according to initial placement)

Colleges	Total ELWR Students	ELWR Students Not Satisfying ELWR by end of Spring 2019	English 1PA; ELWR not satisfied	English 4; ELWR not satisfied	BSWT 1 & 3 (ESL); ELWR not satisfied
BCOE	115	6	0	3	3
CNAS	629	48	1	17	30
CHASS	1106	164*	2	54	107
GSOE	39	5	0	1	4
SPP	13	0	0	0	0
TOTAL	1902	223*	3	75	144

Colleges	Total 2018 English 4/1PA Students	2018 ENGL 4/1PA Students; ELWR not satisfied	Satisfied ELWR during 19U	Academically Dismissed or Withdrew	Withdrew (in good standing)	ELWR Lapse	Time Remains
BCOE	100	3	0	2	0	1	0
CNAS	546	19	2	9	1	3	4
CHASS	926	56*	8	33	3	10*	2
GSOE	28	01	0	1	0	0	0
SPP	11	0	0	0	0	0	0
TOTAL	1611	79*	10	45	4	14*	6

Colleges	Total 2018 Basic Writing 1 & 3 (ESL) Students	2018 BSWT 1 & 3 (ESL) Students; ELWR not satisfied	Satisfied ELWR during 19U	Academically Dismissed or Withdrew	Withdrew (in good standing)	ELWR Lapse	Time Remains
BCOE	15	3	0	1	0	0	2
CNAS	83	30	5	8	0	0	17
CHASS	180	107	0	25	3	0	79
GSOE	11	4	0	0	0	0	4
SPP	2	0	0	0	0	0	0
TOTAL	291	144	5	34	3	0	102

*One student never took the AWPE in order to satisfy the ELWR or receive the proper placement.

UCR ELWR Status of New Freshmen
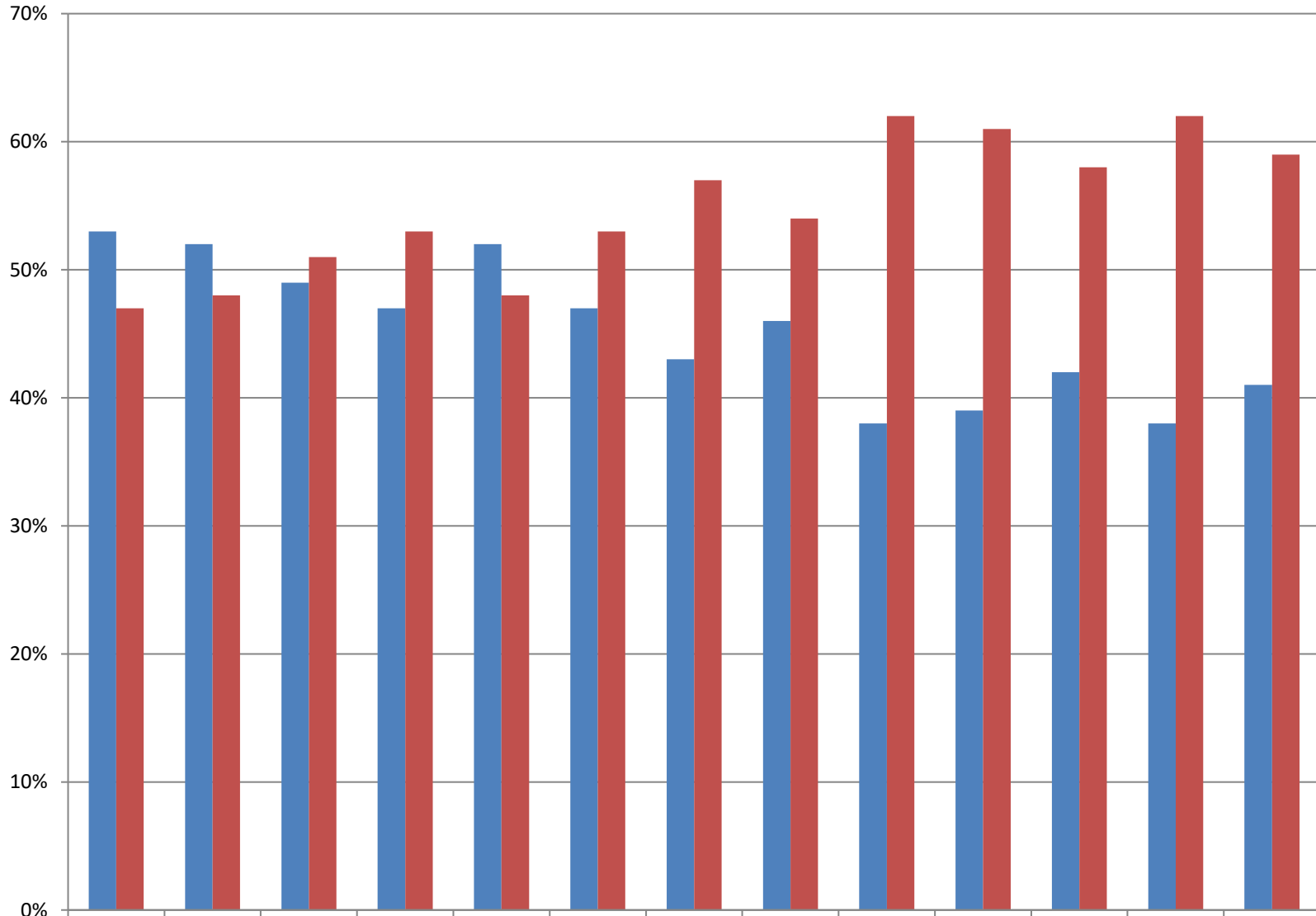
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
ELWR Held	53%	52%	49%	47%	52%	47%	43%	46%	38%	39%	42%	38%	41%
ELWR Satisfied	47%	48%	51%	53%	48%	53%	57%	54%	62%	61%	58%	62%	59%

ELWR Held *ELWR Satisfied*

ELWR Status by College
2018-2019

	BCOE	CHASS	CNAS	GSOE	SPP	Total
ELWR Held	115	1106	629	39	13	1902
ELWR Satisfied at Matriculation	329	1258	1018	41	12	2658
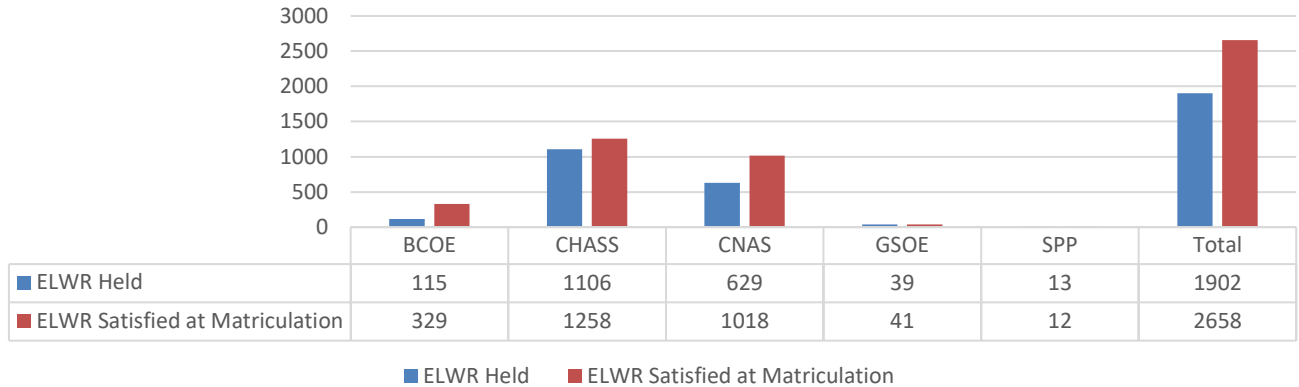
F1 Visa

	Total F1 students	Placed in ELWR	ELWR Satisfied	In Progress	ELWR Lapse
AY 2014	113	91	67	0	6
AY 2015	72	62	50	0	3
AY 2016	103	90	77	1	8
AY 2017	110	88	62	2	12
AY2018	113	92	35	44	2
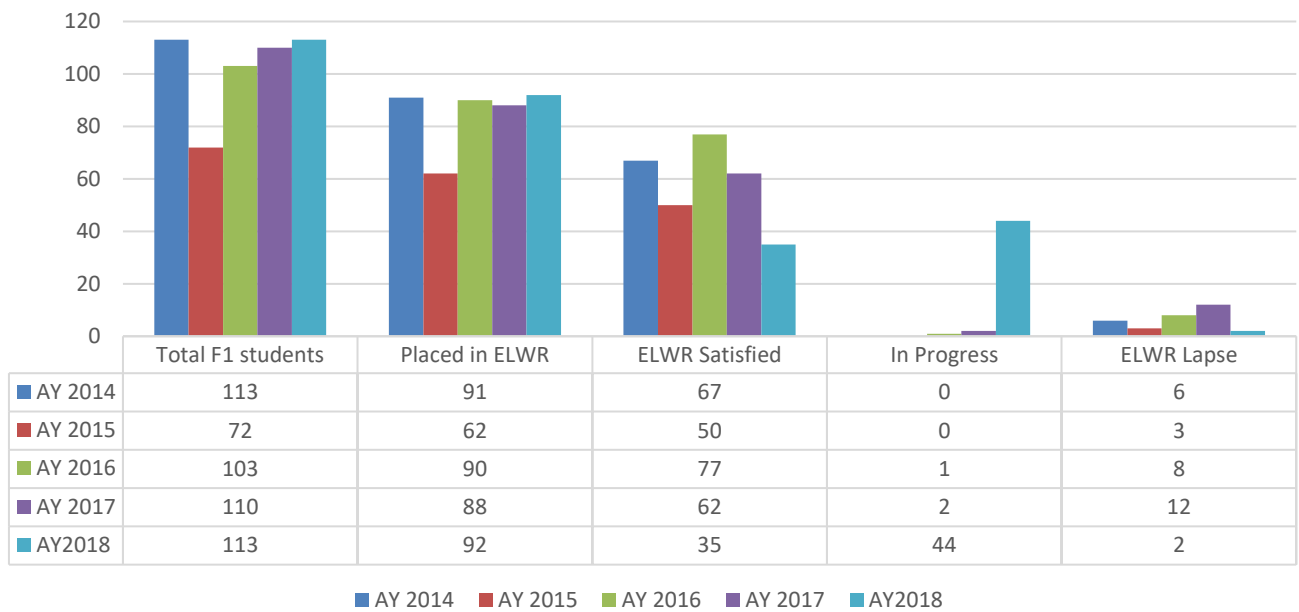
	Total F1 students	Placed in ELWR	ELWR Satisfied	% of F1 ELWR currently satisfied	In Progress	Academically Dismissed or Withdrew	Withdrew (in good standing)	ELWR Lapse
AY 2014	113	91	67	74%	0	10	8	6
AY 2015	72	62	50	81%	0	2	6	3
AY 2016	103	90	77	86%	1	9	0	8
AY 2017	110*	88*	62	70%	2	10	2	12
AY 2018	113	92	35	49%	44	10	1	2

*Three F1 students left the university before receiving an official placement.

DEPT	COURSE	TITLE	INSTRUCTOR FIRST NAME	INSTRUCTOR LAST NAME	INSTRUCTOR DEGREE	TYPE OF APPROVAL	APPROVED
New		Postgraduate Diploma in Entertainment and Media Management				X	10/11/19
New		Advanced Certificate in Natural, Physical, and Life Sciences				X	10/11/19
New		Certificate in Heritage Business Management				X	07/08/19
New		IT Computer Support Specialist Certificate				X	07/08/19
New		Professional Achievement Award in Applied Cybersecurity				X	07/08/19
New		Specialized Study Program in Cultural Competence and Social Justice Leadership				X	07/08/19
New		Specialized Study Program in Social Entrepreneurship, Engagement, and Development Lab (SEED Lab)				X	07/08/19
New		Professional Certificate in Big Data Analytics & Applied Data Science				X	10/14/19
New		Certificate in New and Beginning Farmer Training				X	10/14/19
New		Professional Certificate in Homeless Support Specialist				X	10/14/19
Revision		Professional Certificate in Business Management				X	10/14/19
Revision		Specialized Professional Program in Supervision and Leadership				X	10/14/19
Revision		Certificate in Medical Case Management				X	07/08/19
Revision		Certificate in Professional Skills for the Workplace				X	07/08/19
ENGL	XL 33.B	Itermediate English as a Second Language	Crystal	Dhar	M.A.	I*	10/23/19
EDUC	X81	Role of Home, School and Community in Early Childhood Education	Monica	Lopez Castilo	M.A.	I*	10/24/19
EDUC	X83.01	Observation and Assessment of Children's Behavior	Monica	Lopez Castilo	M.A.	I*	10/25/19
EDUC	X83.01	Observation and Assessment of Children's Behavior	Neven	Darweesh	M.S.	I*	10/26/19
EDUC	X87.01	Health, Nutrition and Safety in Early Childhood	Neven	Darweesh	M.S.	I*	10/27/19
EDUC	X87.45	Education and Care of Infants and Toddlers	Barbara	Easton	M.S	I*	10/28/19
EDUC	X87.45	Infant and Toddler Development	Robin Rae	Fairfield	Doctor of Education	I*	10/11/19
EDUC	X87.46	Infant and Toddler Developmentally Appropriate Classroom Practice	Barbara	Easton	M.S.	I*	10/23/19
EDUC	X87.46	Infant and Toddler Developmentally Appropriate Classroom Practices	Robin Rae	Fairfield	Doctor of Education	I*	10/11/19
EDUC	X88.63	Education and Care of Infants and Toddlers	Robin Rae	Fairfield	Doctor of Education	I*	10/11/19
EDUC	X88.63	Education and Care of Infants and Toddlers	Barbara	Easton	M.S	I*	10/23/19
MGT	X105.12	Disney Supervised Training, Part I				C	10/11/19
MGT	X105.12	Disney Supervised Training, Part I	Catherine	Davis Dickey	B.A.	I*	10/11/19
MGT	X105.12	Disney Supervised Training Part I	Neha	Singh	Ph.D.	I*	10/11/19
MGT	X105.12	Disney Supervised Training Part I	Rey	O'Day	B.S.	I*	10/11/19
MGT	X105.13	Disney Supervised Training, Part II				C	10/11/19
MGT	X105.13	Disney Supervised Training Part II	Catherine	Davis Dickey	B.A.	I*	10/11/19
MGT	X105.13	Disney Supervised Training Part II	Neha	Singh	Ph.D.	I*	10/11/19
MGT	X105.13	Disney Supervised Training Part II	Rey	O'Day	B.S.	I*	10/11/19
CS	X201.2	Data Analytics Technologies	Kemal	Oflus	MS	I	10/23/19
EDUC	X328	Developing Leadership Skills With Gifted Students	Angelena	Aguilera	MA ED	I*	10/14/19
CS	X459.30	Introduction to Python, Data Preparation, and Visualization	Abraham	Montilla Linares	B.S. Computer Science	I*	10/14/19
CS	X459.36	Data Science with Python Capstone Project	Abraham	Montilla Linares	B.S. Computer Science	I*	10/14/19
EDUC	X309.01	DS Early Orientation to Teaching	Melissa Ellen	Dix	M.ED	I*	07/08/19
EDUC	X309.07	DS Culminating Portfolio	Melissa	Dix	MA ED	I	10/14/19
EDUC	X328.11	Gifted Students at Risk	Angelena	Aguilera	MA ED	I*	10/14/19

DEPT	COURSE	TITLE	INSTRUCTOR FIRST NAME	INSTRUCTOR LAST NAME	INSTRUCTOR DEGREE	TYPE OF APPROVAL	APPROVED
EDUC	X328.28A	Teaching Creatively Gifted Students	Angelena	Aguilera	MA ED	I*	10/14/19
EDUC	X328.32	Best Practices for Gifted English Learners	Angelena	Aguilera	MA ED	I*	10/14/19
EDUC	X329.01	Differentiating Instruction Using Prompts to Increase Higher-Level Thinking Skills	Angelena	Aguilera	MA ED	I*	10/14/19
EDUC	X330.25	Understanding Learning Differences	Penelope	Joven	M.A.	I*	10/14/19
EDUC	X335	Asian Religions in America: Hinduism, Buddhism and Sikhism				C	10/14/19
EDUC	X342	Classroom Management Strategies for Teachers: K-6	Angelena	Aguilera	MA ED	I*	10/14/19
EDUC	X347	Cultural Competence for Educators				C	07/08/19
EDUC	X347	Cultural Competence for Educators	Marguerite	Williams	Ed.D.	I	07/08/19
EDUC	X372.1	Overview of California School Business Services	Leonard	Hernandez	M.B.A.	I	07/08/19
EDUC	X372.9	Risk Management in Public Education	Leonard	Hernandez	M.B.A.	I	07/08/19
EDUC	X373.1	Purchasing and Warehousing in Public Education	Paul	Rodriguez	Ed.D	I	07/08/19
EDUC	X373.3	School Financing: Practical Approaches for Chief Business Officials	Leonard	Hernandez	M.B.A.	I	07/08/19
EDUC	X373.4	Budget Development and Control in Public Education	Leonard	Hernandez	M.B.A.	I	07/08/19
EDUC	X386.J	Fundamentals of Early Childhood Education Training: Pedagogical Practices and Curricular Approaches	Jocelyn	Tucker	M.A.	I	07/08/19
CS	X400	Fundamentals of Cybersecurity				C	07/08/19
CS	X400	Fundamentals of Cybersecurity	Bronwyn	Frisca	PhD	I	07/08/19
CS	X400	Fundamentals of Cybersecurity	Dmitri	Adler	M.S.	I	07/08/19
CS	X400	Fundamentals of Cybersecurity	John	Nader		I	07/08/19
CS	X400	Fundamentals of Cybersecurity	Katya	Mijatovic	M.S.	I	07/08/19
CS	X400	Fundamentals of Cybersecurity	Nisha	Iyer	M.S,	I	07/08/19
CS	X400	Fundamentals of Cybersecurity	Bobby	Jaikaran	M.B.A.	I*	10/14/19
PLS	X400	New and Beginning Farmer Training Program				C	07/08/19
PLS	X400	New and Beginning Farmer Training Program	Richard	Cotta	BS also, Single Subject Credential in Agriculture and a Specialist Credential in Agriculture	I*	07/08/19
CS	X401	Cybersecurity Technologies and Tools				C	07/08/19
CS	X401	Cybersecurity Technologies and Tools	Bronwyn	Frisca	PhD	I	07/08/19
CS	X401	Cybersecurity Technologies and Tools	Dmitri	Adler	M.S.	I	07/08/19
CS	X401	Cybersecurity Technologies and Tools	John	Nader		I	07/08/19
CS	X401	Cybersecurity Technologies and Tools	Katya	Mijatovic	M.S.	I	07/08/19
CS	X401	Cybersecurity Technologies and Tools	Nisha	Iyer	M.S.	I	07/08/19
CS	X401	Cybersecurity Technologies and Tools	Bobby	Jaikaran	M.B.A.	I*	10/14/19
CS	X402	Securing Databases				C	07/08/19
CS	X402	Securing Databases	Bronwyn	Frisca	PhD	I	07/08/19
CS	X402	Securing Databases	Dmitri	Adler	M.S.	I	07/08/19
CS	X402	Securing Databases	John	Nader		I	07/08/19
CS	X402	Securing Databases	Katya	Mijatovic	M.S.	I	07/08/19
CS	X402	Securing Databases	Nisha	Iyer	M.S.	I	07/08/19
CS	X402	Securing Databases	Bobby	Jaikaran	M.B.A.	I*	10/14/19
CS	X403	Applied Cyber Security & Crisis Analysis				C	07/08/19

COMMITTEE ON UNIVERSITY EXTENSION
REPORT TO THE RIVERSIDE DIVISION
DECEMBER 3, 2019

DEPT	COURSE	TITLE	INSTRUCTOR FIRST NAME	INSTRUCTOR LAST NAME	INSTRUCTOR DEGREE	TYPE OF APPROVAL	APPROVED
CS	X403	Applied Cyber Security & Crisis Analysis	Bronwyn	Frisca	Ph.D.	I	07/08/19
CS	X403	Applied Cyber Security & Crisis Analysis	Dmitri	Adler	M.S.	I	07/08/19
CS	X403	Applied Cyber Security & Crisis Analysis	John	Nader		I	07/08/19
CS	X403	Applied Cyber Security & Crisis Analysis	Katya	Mijatovic	M.S.	I	07/08/19
CS	X403	Applied Cyber Security & Crisis Analysis	Nisha	Iyer	M.S.	I	07/08/19
CS	X403	Applied Cyber Security & Crisis Analysis	Bobby	Jaikaran	M.B.A.	I*	10/14/19
EDUC	X404.B	Integrating Digital Storytelling Into the Curriculum (B)	David	Vogel	MBA	I	10/14/19
EDUC	X406	Digital Storytelling: Thesis Project	David	Vogel	MBA	I	10/14/19
ENGL	X410.3	Improving Students Analytical Writing (ISAW)				C	10/14/19
ENGL	X410.3	Improving Students Analytical Writing (ISAW	Agnieszka Ewa	Mazur	Ph.D.	I*	10/14/19
SPN	X412	Content and Methods for Teaching Advanced Placement Spanish Language and Culture	Linda	Peairs	Ph.D.	I	10/14/19
BMSC	X413.01	Hospital-Based Case Management				C	07/08/19
BMSC	X413.01	Hospital-Based Case Management	Ellen	Farrell	BSN	I	07/08/19
MGT	X416	Nonprofit Management	Paul	Hammond	B.S.	I	10/14/19
BMSC	X417.1	Introduction to Life Care Planning (LCP)	Penelope	Brown	Doctorate	I	10/14/19
MGT	X418	Building Nonprofit Capacity	Paul	Hammond	B.S.	I	10/14/19
MGT	X418.3	Nonprofit Financial Management	John	Epps	B.A.	I	07/08/19
MGT	X418.4	Strategic Communications for the Nonprofit Organization	John	Epps	B.A.	I	07/08/19
MGT	X418.4	Strategic Communications for the Nonprofit Organization	Paul	Hammond	B.S.	I	10/14/19
MGT	X421.2	Contemporary Leadership and Intercultural Competence	Desiree	Massei	MBA	I*	10/14/19
EDUC	X426	Culture and Inclusion	Victor	Portillo	MA ED	I	10/14/19
EDUC	X426	Culture and Inclusion	Catalina Claudia	Marquez	Ph.D.	I*	10/14/19
EDUC	X426	Culture and Inclusion	Adriana	Benvenuto	Doctorate	I	10/14/19
EDUC	X426	Culture and Inclusion	Cecilia	Arzaga-Chester	M. Ed.	I*	10/14/19
EDUC	X426.1	Language and Language Development	Adriana	Benvenuto	Doctorate	I	10/14/19
EDUC	X426.1	Language and Language Development	Victor	Portillo	MA ED	I	10/14/19
EDUC	X426.1	Language and Language Development	Catalina Claudia	Marquez	Ph.D.	I*	10/14/19
EDUC	X426.1	Language and Language Development	Cecilia	Arzaga-Chester	M. Ed.	I*	10/14/19
EDUC	X426.2	Assessment of English Language Learners	Adriana	Benvenuto	Doctorate	I	10/14/19
EDUC	X426.2	Assessment of English Language Learners	Catalina Claudia	Marquez	Ph.D.	I*	10/14/19
EDUC	X426.2	Assessment of English Language Learners	Cecilia	Arzaga-Chester	M. Ed.	I*	10/14/19
EDUC	X426.3	Foundations of English Language Development and Methods for Content Instruction	Adriana	Benvenuto	Doctorate	I	10/14/19
EDUC	X426.3	Foundations of English Language Development and Methods for Content Instruction	Victor	Portillo	MA ED	I	10/14/19
EDUC	X426.3	Foundations of English Language Development and Methods for Content Instruction	Catalina Claudia	Marquez	Ph.D.	I*	10/14/19
EDUC	X426.3	Foundations of English Language Development and Methods for Content Instruction	Cecilia	Arzaga-Chester	M. Ed.	I*	10/14/19
EDUC	X426.51	Survey of Bilingual Issues	Adriana	Benvenuto	Doctorate	I	10/14/19
EDUC	X426.51	Survey of Bilingual Issues	Catalina Claudia	Marquez	Ph.D.	I*	10/14/19
EDUC	X426.51	Survey of Bilingual Issues	Cecilia	Arzaga-Chester	M. Ed.	I*	10/14/19
EDUC	X426.52	Assessment and Methods of Instruction in Bilingual Settings	Catalina Claudia	Marquez	Ph.D.	I*	10/14/19
EDUC	X426.52	Assessment and Methods of Instruction in Bilingual Settings	Adriana	Benvenuto	Ph.D.	I*	07/08/19
EDUC	X426.52	Assessment and Methods of Instruction in Bilingual Settings	Cecilia	Arzaga-Chester	M. Ed.	I*	10/14/19
EDUC	X426.53	Reading and Biliteracy in a Second Language	Adriana	Benvenuto	Doctorate	I	10/14/19
EDUC	X426.53	Reading and Biliteracy in a Second Language	Catalina Claudia	Marquez	Ph.D.	I*	10/14/19

DEPT	COURSE	TITLE	INSTRUCTOR FIRST NAME	INSTRUCTOR LAST NAME	INSTRUCTOR DEGREE	TYPE OF APPROVAL	APPROVED
EDUC	X426.53	Reading and Biliteracy in a Second Language	Cecilia	Arzaga-Chester	M. Ed.	I*	10/14/19
EDUC	X426.54	Culture and Diversity in Bilingual Settings	Adriana	Benvenuto	Doctorate	I	10/14/19
EDUC	X426.54	Culture and Diversity in Bilingual Settings	Catalina Claudia	Marquez	Ph.D.	I*	10/14/19
EDUC	X426.54	Culture and Diversity in Bilingual Settings	Cecilia	Arzaga-Chester	M. Ed.	I*	10/14/19
EDUC	X427	Orientation for Designated Subjects Credentials Program	Melissa Ellen	Dix	M.ED	I*	07/08/19
MGT	X427.71	Decedent's Estate Practices and Procedures	Mark	McGuire	J.D.	I	10/14/19
MGT	X427.72	Trust Administration and Procedure	Mark	McGuire	JD	I*	07/08/19
MGT	X427.72	Trust Administration and Procedure	Ken	Blickenstaff	JD	I	10/14/19
MGT	X428	Accounting for Governmental and Nonprofit Organizations I	Ronald	Paquette	M.B.A.	I	07/08/19
EDUC	X428.07	Teaching the Gifted and Talented: Advanced Approaches to Curriculum Differentiation	Angelena	Aguilera	MA ED	I*	10/14/19
EDUC	X428.08	Teaching the Gifted and Talented: Approaches to Curriculum and Design	Angelena	Aguilera	MA ED	I*	10/14/19
EDUC	X428.09	Teaching the Gifted and Talented: Guidance and Goals of the Program	Angelena	Aguilera	MA ED	I*	10/14/19
EDUC	X428.09	Teaching the Gifted and Talented: Guidance and Goals of the Program	Brianna	Sahagun	MA ED	I*	10/14/19
EDUC	X428.1	Teaching the Gifted and Talented: Recognizing Individual Differences	Angelena	Aguilera	MA ED	I*	10/14/19
EDUC	X428.1	Teaching the Gifted and Talented: Recognizing Individual Differences	Brianna	Sahagun	MA ED	I*	10/14/19
MGT	X428.1	Accounting for Governmental and Nonprofit Organizations II	Ronald	Paquette	M.B.A.	I	07/08/19
MGT	X428.11	The Budgetary Process in Governmental and Nonprofit Organizations	Ronald	Paquette	M.B.A.	I	07/08/19
MGT	X429.23	Internal Auditing: Operational and Management	Ronald	Paquette	M.B.A.	I	10/14/19
Law	X430	Fundamentals of Law	Victor	Wolf	J.D.	I*	10/14/19
LAW	X433.6	Ethics for the Legal Professional	Rebecca	McKee	J.D.	I	10/14/19
MGT	X434.1	Professional Workplace Skills	William	Ballas	M.S.	I	07/08/19
MGT	X434.2	Fundamentals of the Hospitality Industry	William	Ballas	M.S.	I	07/08/19
MGT	X434.2	Fundamentals of the Hospitality Industry	Homa	Aimen	M.B.A.	I	10/14/19
MGT	X434.2	Fundamentals of the Hospitality Industry	Toni	Ringlein	B.S.	I*	10/14/19
MGT	X434.3	Emotional Intelligence in the Workplace	William	Ballas	M.S.	I	07/08/19
MGT	X434.3	Emotional Intelligence in the Workplace	Toni	Ringlein	B.S.	I*	10/14/19
MGT	X434.3	Emotional Intelligence in the Workplace				C	07/08/19
MGT	X434.4	Professional Workplace Skills	Toni	Ringlein	B.S.	I*	10/14/19
MGT	X434.4	Professional Workplace Skills (unit increase to 3 units)				C	07/08/19
MGT	X434.4	Professional Workplace Skills	William	Ballas	M.S.	I	07/08/19
MGT	X434.4	Professional Workplace Skills	Homa	Aimen	M.B.A.	I	07/08/19
Law	X435	Civil Litigation and Procedure	Victor	Wolf	J.D.	I*	10/14/19
LAW	X435	Civil Litigation and Procedure	Rebecca	McKee	J.D.	I	10/14/19
Law	X435.5	Rules of Evidence	Victor	Wolf	J.D.	I*	10/14/19
LAW	X436	Family Law	Kristie	Bergamo	J.D.	I*	07/08/19
LAW	X438	Probate Practices	Mark	McGuire	JD	I*	07/08/19
BMSC	X440.1	Working with the Homeless Population				C	10/14/19
BMSC	X440.1	Working with the Homeless Population	Damien	O'Farrell	Bachelors	I*	10/14/19
BMSC	X440.2	Identifying and Preventing Commercial Sexual Exploitation of Children and Adults				C	10/14/19
BMSC	X440.2	Identifying and Preventing Commercial Sexual Exploitation of Children and Adults	Thomas	Collins	Masters	I	10/14/19
BMSC	X440.3	Faces of Homelessness				C	10/14/19
BMSC	X440.3	Faces of Homelessness	Nikki	Shipley	Ph.D.	I*	10/14/19
BMSC	X440.4	Mental Health Issues in the Homeless Population				C	10/14/19

DEPT	COURSE	TITLE	INSTRUCTOR FIRST NAME	INSTRUCTOR LAST NAME	INSTRUCTOR DEGREE	TYPE OF APPROVAL	APPROVED
BMSC	X440.4	Mental Health Issues in the Homeless Population	Jay	Ortiz	Masters	I	10/14/19
BMSC	X440.5	Effective Case Management: Connecting to the Homeless Community				C	10/14/19
BMSC	X440.5	Effective Case Management: Connecting to the Homeless Community	Christa	Banton	Doctorate	I	10/14/19
BMSC	X440.6	Introduction to Substance Use and Abuse				C	10/14/19
BMSC	X440.6	Introduction to Substance Use and Abuse	Cynthia	Wilhite Prewitt	Doctorate	I	10/14/19
EDUC	X444.A	Transitional Kindergarten: Child Growth and Development	Birgit	Monks	Ed.D	I	10/14/19
EDUC	X444.A	Transitional Kindergarten: Child Growth and Development	Robin Rae	Fairfield	Doctor of Education	I*	07/08/19
EDUC	X444.A	Transitional Kindergarten: Child Growth and Development	Barbara	Easton	M.S.	I*	10/14/19
EDUC	X444.B	Diversity and Responsive Teaching in a Transitional Kindergarten Classroom	Birgit	Monks	Ed.D.	I	10/14/19
EDUC	X444.B	Diversity and Responsive Teaching in a Transitional Kindergarten Classroom	Robin Rae	Fairfield	Doctor of Education	I*	07/08/19
EDUC	X444.B	Diversity and Responsive Teaching in a Transitional Kindergarten Classroom	Barbara	Easton	M.S.	I*	10/14/19
EDUC	X444.C	Home, School, and Community Collaborations for Transitional Kindergarten Teachers	Birgit	Monks	Ed.D.	I	10/14/19
EDUC	X444.C	Home, School, and Community Collaborations for Transitional Kindergarten Teachers	Robin Rae	Fairfield	Doctor of Education	I*	07/08/19
EDUC	X444.C	Home, School, and Community Collaborations for Transitional Kindergarten Teachers	Barbara	Easton	M.S	I*	10/14/19
EDUC	X444.D	Language, Literacy and Support for Preschool English Learners	Birgit	Monks	Ed.D.	I	10/14/19
EDUC	X444.D	Language, Literacy and Support for Preschool English Learners	Robin Rae	Fairfield	Doctor of Education	I*	07/08/19
EDUC	X444.D	Language, Literacy and Support for Preschool English Learners	Barbara	Easton	M.S	I*	10/14/19
EDUC	X444.E	The Transitional Kindergarten Curriculum	Birgit	Monks	Ed.D.	I	10/14/19
EDUC	X444.E	The Transitional Kindergarten Curriculum	Robin Rae	Fairfield	Doctor of Education	I*	07/08/19
EDUC	X444.E	The Transitional Kindergarten Curriculum	Barbara	Easton	M.S	I*	10/14/19
EDUC	X444.F	Intentional Teacher Engagement in a Transitional Kindergarten Classroom	Birgit	Monks	Ed.D.	I	10/14/19
EDUC	X444.F	Intentional Teacher Engagement in a Transitional Kindergarten Classroom	Robin Rae	Fairfield	Doctor of Education	I*	07/08/19
EDUC	X444.F	Intentional Teacher Engagement in a Transitional Kindergarten Classroom	Barbara	Easton	M.S	I*	10/14/19
EDUC	X444.G	Observation and Assessment in a Transitional Kindergarten Classroom	Birgit	Monks	Ed.D.	I	10/14/19
EDUC	X444.G	Observation and Assessment in a Transitional Kindergarten Classroom	Robin Rae	Fairfield	Doctor of Education	I*	07/08/19
EDUC	X444.G	Observation and Assessment in a Transitional Kindergarten Classroom	Barbara	Easton	M.S	I*	10/14/19
EDUC	X444.H	Practicum and Coaching for Transitional Kindergarten Teachers	Birgit	Monks	Ed.D.	I	10/14/19
EDUC	X444.H	Practicum and Coaching for Transitional Kindergarten Teachers	Robin Rae	Fairfield	Doctor of Education	I*	07/08/19
EDUC	X444.H	Practicum and Coaching for Transitional Kindergarten Teachers	Barbara	Easton	M.S	I*	10/14/19
MGT	X451.01	Developing Your Analytical Skills	William	Ballas	M.S.	I	07/08/19
MGT	X451.01	Developing Your Analytical Skills	Toni	Ringlein	B.S.	I*	10/14/19
MGT	X452.1	Human Resources Management	Thomas	Evans	M.B.A.	I*	07/08/19
MGT	X452.1	Human Resources Management	Emma	Geach	MS	I*	10/14/19
MGT	X452.2	Employee Recruitment, Selection and Retention	Emma	Geach	MS	I*	10/14/19
MGT	X452.3	Labor and Employee Relations	Thomas	Evans	M.B.A.	I*	07/08/19
MGT	X452.4	Compensation Administration	Emma	Geach	MS	I*	10/14/19
MGT	X452.41	Employee Benefit Administration	Thomas	Evans	M.B.A.	I*	07/08/19
MGT	X452.42	Principles of Risk and Insurance Management	Jonnetta	Thomas-Chambers	MA	I	07/08/19
GEO	X453	Geology and Geomorphology of Death Valley				C	07/08/19
GEO	X453	Geology and Geomorphology of Death Valley	Alessandro	Grippo	Ph.D.	I*	07/08/19
ERT	X453.61	Principles of Web GIS Applications	Brandon	Brooks	M.S.	I*	07/24/19
ERT	X453.79	Python Scripting for GIS	Brandon	Brooks	M.S.	I*	07/24/19
MGT	X455.1	(SHRM-CP)/Senior Certified Professional(SHRM-SCP) Certification Training	Emma	Geach	MS	I*	10/14/19

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CS	X455.3	Security +	Floyd	Brown	M.S.	I*	10/14/19
CS	X458.02	Introduction to Computational Thinking and Programming	Susan	Beckenham	M.S.	I*	07/08/19
CS	X458.05	Data Structures and Algorithms	Susan	Beckenham	M.S.	I*	07/08/19
CS	X459	Data Science: Discipline Overview, Use Cases, Methodologies, and Tools	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459	Data Science Discipline Overview, Use Cases, Methodologies and Tools	Abraham	Montilla Linares	B.S. Computer Science	I*	10/14/19
CS	X459	Data Science: Discipline Overview, Use Cases, Methodologies, and Tools	Selina	Carter	M.S.	I*	10/14/19
CS	X459	Data Science Discipline Overview, Use Cases, Methodologies and Tools	Michael	Pankiewicz	B.S.	I*	10/14/19
CS	X459	Data Science: Discipline Overview, Use Cases, Methodologies, and Tools	Jennifer	Davis	PhD	I*	10/14/19
CS	X459	Data Science: Discipline Overview, Use Cases, Methodologies, and Tools	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.16	Data Science 101 in Excel	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.16	Data Science 101 in Excel	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.19	Data Science 201 in Excel	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.19	Data Science 201 in Excel	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.2	Introduction to R, Data Preparation, and Visualization	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.2	Introduction to R, Data Preparation, and Visualization	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.2	Introduction to R, Data Preparation, and Visualization	Selina	Carter	M.S.	I*	10/14/19
CS	X459.2	SQL and Database Management with R	Jennifer	Davis	PhD	I*	10/14/19
CS	X459.20	Data Science with Excel Capstone Project	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.20	Data Science with Excel Capstone Project	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.3	SQL and Database Management with R	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.3	SQL and Database Management with R	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.3	SQL and Database Management with R	Selina	Carter	M.S.	I*	10/14/19
CS	X459.3	Introduction to R, Data Preparation, and Visualization	Jennifer	Davis	PhD	I*	10/14/19
CS	X459.30	Introduction to Python, Data Preparation, and Visualization	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.30	Introduction to Python, Data Preparation, and Visualization	Michael	Pankiewicz	B.S.	I*	10/14/19
CS	X459.30	Introduction to Python, Data Preparation, and Visualization	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.31	SQL and Database Management with Python	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.31	SQL and Database Management with Python	Abraham	Montilla Linares	B.S. Computer Science	I*	10/14/19
CS	X459.31	SQL and Database Management with Python	Michael	Pankiewicz	B.S.	I*	10/14/19
CS	X459.31	SQL and Database Management with Python	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.32	Foundations of Statistics, Statistical Inference, and Probability	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.32	Foundations of Statistics, Statistical Inference, and Probability	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.32	Foundations of Statistics, Statistical Inference, and Probability	Abraham	Montilla Linares	B.S. Computer Science	I*	10/14/19
CS	X459.32	Foundations of Statistics, Statistical Inference, and Probability with Python	Michael	Pankiewicz	B.S.	I*	10/14/19
CS	X459.33	Unsupervised Machine Learning: Clustering and Association Rules	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.33	Unsupervised Machine Learning: Clustering and Association Rules	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.33	Unsupervised Machine Learning: Clustering and Association Rules	Abraham	Montilla Linares	B.S. Computer Science	I*	10/14/19
CS	X459.33	Unsupervised Machine Learning: Clustering and Association Rules with Python	Michael	Pankiewicz	B.S.	I*	10/14/19
CS	X459.34	Supervised Machine Learning: Regression and Time Series Analysis	Aaron	Rudkin	M.A.	I*	07/24/19

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CS	X459.34	Supervised Machine Learning: Regression and Time Series Analysis	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.34	Supervised Machine Learning: Regression and Time Series Analysis	Abraham	Montilla Linares	B.S. Computer Science	I*	10/14/19
CS	X459.34	Supervised Machine Learning: Regression and Time Series Analysis with Python	Michael	Pankiewicz	B.S.	I*	10/14/19
CS	X459.35	Supervised Machine Learning: Introduction to Classification Algorithms	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.35	Supervised Machine Learning: Introduction to Classification Algorithms	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.35	Supervised Machine Learning: Introduction to Classification Algorithms	Abraham	Montilla Linares	B.S. Computer Science	I*	10/14/19
CS	X459.35	Supervised Machine Learning: Introduction to Classification Algorithms with Python	Michael	Pankiewicz	B.S.	I*	10/14/19
CS	X459.36	Data Science with Python Capstone Project	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.36	Data Science with Python Capstone Project	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.36	Data Science with Python Capstone Project	Michael	Pankiewicz	B.S.	I*	10/14/19
CS	X459.37	Fundamentals of Data Analytics				C	10/14/19
CS	X459.38	Business Statistics and Data Structures				C	10/14/19
CS	X459.39	Data Summarization and Visualization				C	10/14/19
CS	X459.4	Foundations of Statistics, Statistical Inference, and Probability	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.4	Foundations of Statistics, Statistical Inference, and Probability	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.4	Foundations of Statistics, Statistical Inference, and Probability with R	Selina	Carter	M.S.	I*	10/14/19
CS	X459.4	Foundations of Statistics, Statistical Inference, and Probability	Jennifer	Davis	PhD	I*	10/14/19
CS	X459.40	Big Data Analytics and Platforms				C	10/14/19
CS	X459.41	Deep Learning and Artificial Intelligence				C	10/14/19
CS	X459.42	Data Mining and Machine Learning Algorithms, Business Analytics Capstone	Dmitri	Adler	BS	I	10/14/19
CS	X459.42	Data Mining and Machine Learning Algorithms				C	10/14/19
CS	X459.43	Business Analytics Capstone				C	10/14/19
CS	X459.43	Business Analytics Capstone	Dmitri	Adler	BS	I	10/14/19
CS	X459.5	Unsupervised Machine Learning: Clustering and Association Rules	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.5	Unsupervised Machine Learning: Clustering and Association Rules	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.5	Unsupervised Machine Learning: Clustering and Association Rules with R	Selina	Carter	M.S.	I*	10/14/19
CS	X459.5	Unsupervised Machine Learning: Clustering and Association Rules	Jennifer	Davis	PhD	I*	10/14/19
CS	X459.6	Supervised Machine Learning: Regression and Time Series Analysis	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.6	Supervised Machine Learning: Regression and Time Series Analysis	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.6	Supervised Machine Learning: Regression and Time Series Analysis with R	Selina	Carter	M.S.	I*	10/14/19
CS	X459.6	Supervised Machine Learning: Regression and Time Series Analysis	Jennifer	Davis	PhD	I*	10/14/19
CS	X459.7	Supervised Machine Learning: Introduction to Classification Algorithms	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.7	Supervised Machine Learning: Introduction to Classification Algorithms	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.7	Supervised Machine Learning: Introduction to Classification Algorithms with R	Selina	Carter	M.S.	I*	10/14/19
CS	X459.7	Supervised Machine Learning: Introduction to Classification Algorithms	Jennifer	Davis	PhD	I*	10/14/19
CS	X459.7	Supervised Machine Learning: Introduction to Classification Algorithms	Kodie	McNamara	MS	I	07/08/19
CS	X459.8	Data Science with R Capstone Project	Aaron	Rudkin	M.A.	I*	07/24/19
CS	X459.8	Data Science with R Capstone Project	Mehrdad	Rafiei	Ph.D.	I*	07/08/19
CS	X459.8	Data Science with R Capstone Project	Selina	Carter	M.S.	I*	10/14/19
CS	X459.8	Data Science with R Capstone Project	Jennifer	Davis	PhD	I*	10/14/19
ART	X461.02	Perspective Drawing	Maria	Allgood	BA	I*	10/14/19

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ART	X461.3	Drafting I	Maria	Allgood	BA	I*	10/14/19
ART	X461.31	Drafting II	Maria	Allgood	BA	I*	10/14/19
ART	X461.8	Space Planning	Maria	Allgood	BA	I*	10/14/19
ART	X461.A	Intro to Interior Design	Maria	Allgood	BA	I*	10/14/19
EDUC	X461.A	Teaching and Learning Theory for Medical Education	Irene Ruth	Fujii	Ph.D.	I	07/08/19
EDUC	X461.B	Foundations of Curriculum for Medical Education	Irene Ruth	Fujii	Ph.D.	I	07/08/19
EDUC	X461.C	Instructional Strategies in Medical Education	Elena	Hernandez	M.A.	I	07/08/19
EDUC	X461.C	Instructional Strategies in Medical Education	Irene Ruth	Fujii	Ph.D.	I	07/08/19
EDUC	X461.D	Assessment and Evaluation for Learning in Medical Education	Irene Ruth	Fujii	Ph.D.	I	07/08/19
ENGR	X463.21	Systems Engineering Requirements and Analysis	Bruce	Ziemienski	B.S. E. E.	I	07/08/19
MGT	X463.30	Principles of Special Events Management	Toni	Ringlein	B.S.	I*	10/14/19
MGT	X463.32	Event Design and Technology	Toni	Ringlein	B.S.	I*	10/14/19
MGT	X463.35	Corporate Event Management	Toni	Ringlein	B.S.	I*	10/14/19
MGT	X463.38	Marketing an Event Business	Terri	Horton	Ed.D.	I	10/14/19
MGT	X463.38	Marketing an Event Business	Toni	Ringlein	B.S.	I*	10/14/19
MGT	X463.42	Developing and Managing Your Event Business	Toni	Ringlein	B.S.	I*	10/14/19
MGT	X465.1	Understanding Your Role as a Supervisor	Jonnetta	Thomas-Chambers	M.A.	I	07/08/19
MGT	X465.1	Understanding Your Role as Supervisor	Thomas	Evans	M.B.A.	I*	07/08/19
MGT	X465.1	Understanding Your Role as Supervisor	Homa	Aimen	M.B.A	I	10/14/19
MGT	X465.2	Managing High Performance Teams	Jonnetta	Thomas-Chambers	M.A.	I	07/08/19
MGT	X465.4	Motivating, Managing, and Developing Others	Jonnetta	Thomas-Chambers	M.A.	I	07/08/19
MGT	X465.4	Motivating, Managing, and Developing Others	Thomas	Evans	M.B.A.	I*	07/08/19
MGT	X465.4	Motivating, Managing, and Developing Others	Isabel	Lopez	MA in Leadership	I	07/08/19
MGT	X465.5	Managing Through Workplace Inclusion	Jonnetta	Thomas-Chambers	M.A.	I	07/08/19
MGT	X465.5	Managing Through Workplace Inclusion	Thomas	Evans	M.B.A.	I*	07/08/19
MGT	X465.6	Moving Through Change	Linda	McKean	PMP	I	10/14/19
MGT	X465.6	Moving Through Change	Homa	Aimen	M.B.A	I	10/14/19
MGT	X465.6	Moving Through Change	Paul	Hammond	B.S.	I	10/14/19
MGT	X465.6	Moving Through Change	Isabel	Lopez	M.A	I	10/14/19
MGT	X465.6	Moving Through Change				C	10/14/19
MGT	X469.02	Communicating Effectively	Homa	Aimen	M.B.A	I	10/14/19
MGT	X470.33	Project Leadership, Communication and Team Building	Isabel	Lopez	M.A	I	10/14/19
MGT	X470.46	Organizational Leadership	Desiree	Massei	MBA	I*	10/14/19
MGT	X470.74	Effective Performance Management	Emma	Geach	MS	I*	10/14/19
MGT	X471.16	Construction Project Delivery Systems and Contracts	Mohammed I.	Baig	M.S.	I*	10/14/19
MGT	X471.8	Construction Field Supervision	Mohammed I.	Baig	M.S.	I*	10/14/19
ENGR	X473	Project Integration Using Building Information Modeling (BIM)	Amanuel	Woldemikael	M.Arch.	I	07/08/19
ENGR	X473	Project Integration Using Building Information Modeling (BIM)	William	Brown	M.A.	I	07/08/19
MGT	X473.6	Lean Principles and Practice	Russell	Keenan	B.S., PMP	I	10/14/19
ENGR	X474	Building Information Modeling (BIM) Applications in the AECO Workplace	Amanuel	Woldemikael	M.Arch.	I	07/08/19
MGT	X474.1	Business Management for Heritage Professionals				C	07/08/19
MGT	X474.1	Business Management for Heritage Professionals	Christopher D.	Dore	Ph.D.	I*	07/08/19
MGT	X474.2	Accounting and Finance for Heritage Professionals				C	07/08/19

DEPT	COURSE	TITLE	INSTRUCTOR FIRST NAME	INSTRUCTOR LAST NAME	INSTRUCTOR DEGREE	TYPE OF APPROVAL	APPROVED
MGT	X474.2	Accounting and Finance for Heritage Professionals	Jenna	Coplin	M.Phil.	I*	07/08/19
MGT	X474.3	Heritage Sales, Marketing, and Contracting				C	07/08/19
MGT	X474.3	Heritage Sales, Marketing, and Contracting	Anna	Schneider	M.A.	I*	07/08/19
MGT	X474.4	Heritage Operations and Project Management				C	07/08/19
MGT	X474.4	Heritage Operations and Project Management	Bill	Mercer	M.A.	I*	07/08/19
MGT	X474.4	Heritage Operations and Project Management	Christopher D.	Dore	Ph.D.	I*	07/08/19
MGT	X474.5	Peopling Heritage Organizations				C	07/08/19
MGT	X474.5	Peopling Heritage Organizations	Christopher D.	Dore	Ph.D.	I*	07/08/19
ENGR	X475	Case Study Analyses - Building Information Modeling (BIM)	Denise	Homme	Ph.D.	I	07/08/19
MGT	X478.1	Essence of Business Communications	William	Ballas	M.S.	I	07/08/19
MGT	X478.1	Essence of Business Communications	Toni	Ringlein	B.S.	I*	10/14/19
MGT	X479	Organizational Behavior Dynamics	Desiree	Massei	MBA	I*	10/14/19
CS	X480.1	Networking +	Floyd	Brown	M.S.	I*	10/14/19
CS	X480.20	IT Fundamentals (ITF+ Certification Training)	Patrick	Roskam	BA	I	07/08/19
CS	X480.20	IT Fundamentals (ITF+ Certification Training)				C	07/08/19
CS	X480.20	IT Fundamentals (ITF+ Certification Training)	Bruce	Ziemienski	B.S. E. E.	I	07/08/19
CS	X480.21	IT Help Desk Operations	Floyd	Brown	M.S.	I*	10/14/19
MGT	X480.5	Quality Customer Service	William	Ballas	M.S.	I	07/08/19
MGT	X480.5	Quality Customer Service	Toni	Ringlein	B.S.	I*	10/14/19
EDUC	X481	Educational Leadership: Leading by Example	Maritza	Sanchez-Town	Ph.D.	I	10/14/19
EDUC	X482	Creating a Shared Vision of Learning	Maritza	Sanchez-Town	Ph.D.	I	10/14/19
EDUC	X483	Sharing Leadership in a School Community	Maritza	Sanchez-Town	Ph.D.	I	10/14/19
EDUC	X484	Instructional Leadership for School Administrators	Maritza	Sanchez-Town	Ph.D.	I	10/14/19
MGT	X484	Social Entrepreneurship, Engagement and Development Lab (SEED Lab)				C	07/08/19
MGT	X484	Social Entrepreneurship, Engagement and Development Lab (SEED Lab)	Mihai	Patru	Masters in Intl. Public Policy	I*	07/08/19
EDUC	X485	Educational Leadership: Systems and Systems Thinking	Maritza	Sanchez-Town	Ph.D.	I	10/14/19
ENGR	X485	Maintaining and Supporting Computers A+	Floyd	Brown	M.S.	I*	10/14/19
EDUC	X486	Regulatory Leadership for School Administrators	Maritza	Sanchez-Town	Ph.D.	I	10/14/19
EDUC	X487	Educational Leadership Realities and Strategies	Maritza	Sanchez-Town	Ph.D.	I	10/14/19
EDUC	X491	Clear Administrative Services Credential Program (CASC) - Year 1	Maritza	Sanchez-Town	Ph.D.	I	10/14/19
EDUC	X492	Clear Administrative Services Credential Program (CASC) - Year 2	Maritza	Sanchez-Town	Ph.D.	I	10/14/19
MGT	X496.10	Essentials of Business Management				C	10/14/19
MGT	X496.10	Essentials of Business Management	Joan	Branin	Ph.D.	I	10/14/19
MGT	X499.11	Supervised Training	Catherine	Davis-Dickey	B.A.	I	10/14/19
MGT	X499.2	Workplace Culture and Communication	Neha	Singh	PhD	I	10/14/19

* Denotes first time approval for Instructor

To: Riverside Division of the Academic Senate

From: Thomas Cogswell and Manuela Martins-Green, UCR Assembly Representatives to the UC Academic Senate

RE: Report of the Meeting of the UC Academic Senate Assembly, June 12, 2019

UC Assembly, never renown for exciting announcements and spirited debates, may well have reached unexpected levels of somnolence in its 12 June meeting. President Napolitano could not attend, and Provost Brown is on medical leave. In their absence, Vice Provost Susan Carlson and Senate Chair Robert May did their best to explain the latest developments.

First May and then Carlson reiterated the unfortunate news that the legislature has not provided permanent funding for the tuition buy-out, which will not be renewed next year. Instead the system will have to stump up some $95 million out of its base budget, which – saints be praised -- will increase by 7%. Some re-allocations may reduce the deficit to a mere $70 million. But whatever the exact size of the fiscal hole, the effect will be felt across the system. Most notably, the President almost certainly will have to revise downward her ambitious plan for an annual 5% increase in the salary scales over the next three years. Chair May speculated that she might adopt a four-year plan of 4% increases each year – or something even more notional.

Faculty retirees also received disappointing news. While the system is struggling to maintain existing levels of funding for their medical benefits, the inexorable financial pressures may force the system to reduce benefits, although all involved insisted that any reductions would only be taken under duress and after further consultation.

The system's boycott of Elsevier journals continues, and for the time being, we will continue to have access to their periodicals and databases. Nevertheless, the Assembly was warned that Elsevier could end access at any time. The librarians have contingency plans to deal with the ensuing crisis, but the faculty should prepare for possible delays in gaining access to articles.

The system is committed to assist UCSF after the federal government announced its opposition to the campus's scientific research involving fetal tissue, and after lengthy review and discussion among Senate committees and divisions, the university has declined to pursue a relationship with Dignity Health. Likewise, the university is busy backing away from its existing arrangements with Huawei Technologies. Finally, in the wake of various recent admissions scandals, the UC system is launching an internal audit of the matter, and the legislature may well begin its own investigation of admissions.

After the Assembly approved a few minor administrative matters, none of which generated any discussion, Chair May adjourned the meeting – to universal relief.

To Be Adopted

Proposed Changes to Charge of the Committee on Charges
(Bylaw 8.7.1 – Number of members)

PRESENT	PROPOSED
8.7 Charges (En 5 Jun 75)	8.7 No change
8.7.1 This committee consists of ~~seven~~ members. (Am Nov 02)	8.7.1 This committee consists of <u>eight</u> members.
8.7.2 Five members shall constitute a quorum.	8.7.2 No change.
8.7.3 It is the duty of this committee to:	8.7.3 No change.
8.7.3.1 Receive in writing, through the Chancellor or Chancellor's designee , unresolved complaints regarding Faculty conduct, as per procedures described in SBL336 and UCR Division Appendix 5; (Am 29 Nov. 2011)	8.7.3.1 No change.
8.7.3.2 Determine whether the allegations in the complaint, if true, would constitute a violation of University policy regulating individual Faculty conduct; and	8.7.3.2 No change.
8.7.3.3 If answered negatively, recommend to the Chancellor that all references to the complaint shall be expunged from all records except that of the Charges Committee;	8.7.3.3 No change.
8.7.3.4 If answered affirmatively, request from the Chancellor any supporting evidence already developed and conduct an inquiry to determine if there is probable cause to warrant a disciplinary hearing before the Committee on Privilege and Tenure. The findings shall be submitted to the Chancellor. (Am 31 May 79) (Am 29 May 12)	8.7.3.4 No change.
8.7.4 The committee may for the purpose of fulfilling the duty described in 8.7.3.4 appoint ad hoc committees. (Am 29 Nov. 11) (Am 29 May 12)	8.7.4 No change.

Statement of Purpose and Effect: The Committee on Charges is required to review cases within a prescribed period of time after receiving them from the Chancellor's designee, the Vice Provost of Administrative Resolution. A quorum is required in order to conduct business. This Committee presently is composed of seven members, with quorum requiring the presence of at least five members. Often a Committee member must be recused due to conflict of interest by virtue of being in the same department as the accused faculty member or complainant, or for other sources of conflict of interest. In addition, often a faculty member is unavailable for consecutive days or weeks due to travel, short-term sabbatical leave, illness or other reasons. These factors lead often to delays in establishing a meeting time to conduct the business of the Committee. The proposed increase in the number of members by one, from seven (currently) to eight (proposed) would increase the likelihood of achieving a quorum of five, thus also increasing the likelihood of timely meetings and actions by the Committee on Charges.

Approved by the Committee on Charges :   October 7, 2019

Approvals

Approved by the Committee on Diversity, Equity &   November 4, 2019
Inclusion:

The Committee on Rules and Jurisdiction finds the
wording to be consistent with the code of the   October 24, 2019
Academic Senate:

Received by Executive Council: November 18, 2019

UC RIVERSIDE | Academic Senate

COMMITTEE ON DIVERSITY, EQUITY, AND INCLUSION

November 4, 2019

To: Dylan Rodriguez
            Riverside Division Academic Senate

From: Xuan Liu, Chair
            Committee on Diversity, Equity, and Inclusion

Re: Proposed Bylaw Change: Charges Bylaw 8.7.1-Membership

The Committee on Diversity, Equity, & Inclusion considered the proposed revision to the Committee on Charges Bylaw 8.7.1 regarding membership and are supportive of the change.

COMMITTEE ON RULES AND JURISDICTION

REPORT TO THE RIVERSIDE DIVISION
December 3, 2019

<u>**To Be Adopted**</u>

Proposed Changes to Charge of the Committee on Rules and Jurisdiction
Bylaw 8.21.2.2

<u>**PRESENT:**</u>	<u>**PROPOSED:**</u>
8.21 Rules and Jurisdiction	**8.21 Rules and Jurisdiction**
8.21.1 This committee consists of three members, one of whom is the Secretary-Parliamentarian of the Division. The Chair may also serve on the University Committee on Rules and Jurisdiction. (Am 22 Oct 73)	No change
8.21.2 It is the duty of this committee to:	No change
8.21.2.1 Prepare and report to the Division such changes and additions to the bylaws and regulations of the Division as may seem advisable;	No change
8.21.2.2 Review legislation submitted for adoption by the Division to determine whether such legislation conflicts with the bylaws and regulations of the Academic Senate;	**8.21.2.2** Review legislation submitted for adoption by the Division to determine whether such legislation conflicts with the bylaws and regulations of the Academic Senate<u>, and meets reasonable standards of clarity and internal consistency</u>;
8.21.2.3 Advise the Division on the scope of its jurisdiction and that of the Academic Senate as a whole;	No change
8.21.2.4 Recommend to the Division such changes in its organization as seem desirable;	No change
8.21.2.5 Make editorial and nonsubstantive changes in the bylaws and regulations with regard to numbering, headings, cross references, organizational titles and details of style, reporting all such changes to the	No change

organizations directly concerned, and publishing them in the call for the next meeting of the Division;

8.21.2.6 Edit and publish, at such intervals as may seem necessary, the Manual of the Riverside Division of the Academic Senate, which shall consist of the bylaws and regulations of the Division, such appendices as the Division shall direct to be included, and the bylaws and regulations of faculties and councils directly responsible to the Division;	No change
8.21.2.7 To hear, upon petition of no fewer than five members of the Division, challenges to any action of a divisional committee alleged to be contrary to the Code of the Academic Senate or to the Manual of the Riverside Division [except for challenges to findings on the merits in a particular case by a Committee on Privilege and Tenure]. Prior to reporting its findings, the Committee should give the parties to the case an opportunity to present their views, either orally or in writing; (En 10 Nov 94)	No change
8.21.2.8 To respond to informal requests from members, officers, or committees of the Division for information regarding the Code of the Academic Senate or the legislation of the Division, summarizing all such correspondence in the annual report. (En 10 Nov 94)	No change

Statement of Purpose and Effect:

In the course of its work vetting proposals for new or revised bylaws and regulations, the R&J committee sometimes sees proposals that have vagueness or ambiguity or internal inconsistency or omit crucial information or references. Such failings should be grounds for rejection by the committee, yet the committee's charge fails to specifically and explicitly empower it to do so. The proposal aims to correct that.

The committee on Rules and Jurisdiction has dropped the word "inambiguity" based on feedback from Executive Council:

"and meets reasonable standards of clarity, internal consistency and inambiguity", now reads "and meets reasonable standards of clarity and internal consistency."

Approved by the Committee on Rules and Jurisdiction: May 8, 2019
                                                October 16, 2019

Received by Executive Council: October 28, 2019

COMMITTEE ON RULES AND JURISDICTION

REPORT TO THE RIVERSIDE DIVISION
December 2019

To Be Adopted

Proposed Changes to Charge of the Committee on Rules and Jurisdiction
Bylaw 8.21.2.2

PRESENT: **PROPOSED:**

8.21 Rules and Jurisdiction   **8.21 Rules and Jurisdiction**

8.21.1 This committee consists of three   No change
members, one of whom is the Secretary-
Parliamentarian of the Division. The Chair
may also serve on the University Committee
on Rules and Jurisdiction. (Am 22 Oct 73)

8.21.2 It is the duty of this committee to: No change

8.21.2.1 Prepare and report to the Division   No change
such changes and additions to the bylaws and
regulations of the Division as may seem
advisable;

8.21.2.2 Review legislation submitted for   **8.21.2.2** Review legislation submitted for
adoption by the Division to determine whether   adoption by the Division to determine whether
such legislation conflicts with the bylaws and   such legislation conflicts with the bylaws and
regulations of the Academic Senate;   regulations of the Academic Senate, and meets
                                                         reasonable standards of clarity, internal
                                                         consistency and inambiguity;

8.21.2.3 Advise the Division on the scope of its   No change
jurisdiction and that of the Academic Senate as
a whole;

8.21.2.4 Recommend to the Division such   No change
changes in its organization as seem desirable;

8.21.2.5 Make editorial and nonsubstantive   No change
changes in the bylaws and regulations with
regard to numbering, headings, cross
references, organizational titles and details of
style, reporting all such changes to the

organizations directly concerned, and publishing them in the call for the next meeting of the Division;

8.21.2.6 Edit and publish, at such intervals as may seem necessary, the Manual of the Riverside Division of the Academic Senate, which shall consist of the bylaws and regulations of the Division, such appendices as the Division shall direct to be included, and the bylaws and regulations of faculties and councils directly responsible to the Division;	No change
8.21.2.7 To hear, upon petition of no fewer than five members of the Division, challenges to any action of a divisional committee alleged to be contrary to the Code of the Academic Senate or to the Manual of the Riverside Division [except for challenges to findings on the merits in a particular case by a Committee on Privilege and Tenure]. Prior to reporting its findings, the Committee should give the parties to the case an opportunity to present their views, either orally or in writing; (En 10 Nov 94)	No change
8.21.2.8 To respond to informal requests from members, officers, or committees of the Division for information regarding the Code of the Academic Senate or the legislation of the Division, summarizing all such correspondence in the annual report. (En 10 Nov 94)	No change

Statement of Purpose and Effect:

In the course of its work vetting proposals for new or revised bylaws and regulations, the R&J committee sometimes sees proposals that have vagueness or ambiguity or internal inconsistency or omit crucial information or references. Such failings should be grounds for rejection by the committee, yet the committee's charge fails to specifically and explicitly empower it to do so. The proposal aims to correct that.

Approved by the Committee on Rules and Jurisdiction: May 8, 2019

Received by Executive Council: (leave blank)

UNIVERSITY OF CALIFORNIA, RIVERSIDE

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To: Professor Dylan Rodriguez, Chair
           Academic Senate

           and

           Professor Harry Tom, Chair
           Academic Senate Committee on Planning and Budget

From: Vassilis Tsotras
           Professor, Computer Science & Engineering
           Co-chair, Adhoc Committee for the Design of the Data Science Major

Re: Response to Senate Review of Bachelor of Science in Data Science

Date: November 5, 2019

Dear Professors Rodriguez and Tom,

Thank you for sharing the comments from the Planning and Budget Committee (P&B) as well as the Executive Council about the Bachelor of Science in Data Science (BSDS). First, I would like to inform the P&B committee that we were not aware of their comments on the initial version of the Data Science Major proposal and hence we could not address them in the revised version. We would also like to thank both committees for their comments which we will address below.

The new BSDS will be funded as any other major on campus. We apologize if the previously submitted budget justification implied otherwise. Specifically, student tuition will be distributed to colleges as with any other program. This means that the tuition portion due to BSDS major course enrollment (and associated lab fees or the like) will be distributed to colleges proportionally to the enrollments. This will cover teaching costs like any other student enrollment would cover teaching costs (including instructors, TAs, labs, etc.) Similarly, the tuition portion distributed according to majors will also be distributed to colleges proportionally to the BSDS majors in that college. This will cover advising and administrative overhead just as any other major in that college would. In this way, the per-course and the per-major costs of majors in BSDS would be covered just as the same costs would be covered for other majors on campus.

The initial target of 50 majors is not a long-term cap. It is a planning estimate and represents the desire to *initially* keep enrollments around this level to allow the program to grow gracefully to its natural size. As mentioned above, any enrollment growth in BSDS would be supported just as enrollment growth in any other BS major would be supported.

We would separately note that if any new courses are required for the major, they would be added in a particular department, and therefore their teaching costs would be covered by the enrollment in students in that course through the campus budget model, just as any other new course in the department.

Changes to the major, including adding additional "applications" courses would go through the BSDS program committee, as standard for any program. We would also like to note that the current proposal contains an initial list of application course sequences and new such sequences will be added as the program proceeds. In the initial list we included application courses that: (i) are related to data, (ii) have prerequisites that are satisfied by the coursework in the BSDS major and (iii) are given often enough so that the students in the BSDS major are not delayed. We expect and will welcome new such courses from other disciplines as this will make the DSBS major even stronger.

UC RIVERSIDE | **Academic Senate**
UNIVERSITY OF CALIFORNIA

PLANNING & BUDGET

November 14, 2019

To: Dylan Rodriguez, Chair
           Riverside Division

From: Harry Tom, Chair
           Committee on Planning and Budget

**Re: [Campus Review] Proposal: New Undergraduate Major: Data Science
           Undergraduate Major – Revised – 3rd Round**

At their November 12, 2019 meeting, Planning & Budget (P&B) discussed the Data Science response to P&B's comments about the revised Data Science major proposal (round 2 document). The committee approves on the premise stated in the cover letter that this major will have costs and responsibilities handled like any other major with Dean's revenue also handled like any other major.

It would have been useful to put that text directly on page 6, under point 10. However, the committee understands the urgency of creating the program as soon as possible and does not wish to delay it further. The Committee notes specifically on page 6 of the round 2 proposal item 10, where there are some points that may be construed as entitlements of this major for special treatment rather than the "same as other majors" budgetary limitations: a) discussion of LSOE and current new gift funding which may or may not be continued in support of this new program but should be subject to the "same as other major" budgetary principles should external funds not be available, b) increases in enrollment leading to increased TA costs that should be "easily covered by the tuition fees" defers to "same as other majors" principles, since the path of tuition fees to Deans to TA salaries is not necessarily straight forward, but in any case will have no special advantage/disadvantage relative to other majors.

UC RIVERSIDE | *Academic Senate*

EXECUTIVE COUNCIL

November 19, 2019

To: Riverside Division

From: Dylan Rodríguez, Chair
       Executive Council

Re: Data Science Undergraduate Major Proposal (3rd Round)

The Senate's Executive Council discussed the third revision of the proposal at its November 18, 2019 meeting. It decided to offer no further comment beyond the input provided by the Committee on Planning and Budget.

Cc: Cherysa Cortez, Senate Executive Director

Proposal for the new undergraduate major in Data Science
Revised in August 2019

1. *Name of the academic program and the department or unit that will administer the program.*

Name: Data Science Undergraduate Major

Administration: The Data Science major will be administered <u>jointly</u> by the Department of Computer Science and Engineering (CSE) and the Department of Statistics.

2. *A thorough justification, including the motivation for the creation of the program in terms of student interest and professional or academic importance.*

Data has become ubiquitous in everyday life, impacting every profession, from entry-level office workers to CEOs, from team coaches to general managers, from accountants to CFOs. Businesses now have data available to them at a scale that is historically unprecedented; harnessing this data for insight on what customers want provides them with a competitive advantage. Traditional companies (Ford, Walmart, General Electric, etc.) today pride themselves as being transformed to big-data businesses. The field of Data Science has emerged to address the proliferation of data and the need to manage and understand it.

Data Science lies at the intersection of Computer Science and Statistics, and its solutions already serve a variety of application domains in science, engineering and business. While there is a plethora of M.S. offerings in Data Science, relatively few undergraduate Data Science programs are currently offered. A recent search for Data Science undergraduate degrees (http://datascience.community/colleges) indicates that such offerings are typically provided as (i) minors to existing B.S. programs (Computer Science, Math or Statistics), (ii) certificate programs, or (iii) programs with very specific focuses (Business Data Analytics or Computational Analytics being the most common ones). Within the UC system, currently there are three existing undergraduate Data Science degree programs offered at UC Irvine (2015), UC Berkeley (2018) and UC San Diego (2018). The proposed UCR Data Science undergraduate program has thus the potential to fill an important gap. Creating a new Data Science undergraduate degree will be instrumental in educating future data scientists by building knowledge bottom-up, covering both essential knowledge from Computer Science (in managing data) and Statistics (in analyzing data), and integrating this knowledge with applications to other domains and to real-life problems.

Data permeates all aspects of science, engineering, and other academic disciplines. Yet, a comprehensive program studying how data can be collected, transformed, analyzed, and used to solve problems across academic disciplines does not currently exist at UCR at the undergraduate level. Statistics and Computer Science degree programs discuss some aspects of this, but our proposed program provides an interdisciplinary view of how to employ data and the role of data across other academic disciplines. The rise of data science as a term reflects a new academic discipline, studying data itself. This program will educate students in these analyses, thought processes, and ways of viewing the world through a data lens.

Through its interdisciplinary nature, a Data Science undergraduate program offers a great opportunity to serve as a pathway for professional careers in various areas. The proposed program is different from existing programs in that its students will complete course sequences in other departments (e.g., economics, business, sociology, earth sciences, biology,

bioinformatics, and astronomy) where they will learn how Data Science principles are applied in these domains.

Fueled by the explosion of data, Data Science jobs have proliferated and the demand for data scientists is extremely high; moreover, this demand is expected to be strong for years to come. A recent McKinsey report forecasted a need for hundreds of thousands of data scientists in the next decade. Another study by IBM found more than 2.3 million data science and analytics job listings in 2015, and both job openings and job demand are projected to grow significantly. Three-fifths of the data science and analytics jobs are in the finance and insurance, professional services, and information technology sectors, but the manufacturing, health care, and retail sectors also are hiring significant numbers of data scientists. According to Glassdoor, a recruiting site, Data Scientist is the best job in the US (for the last three years in a row) with around 110K median base salary. We thus expect that the new program will be in high demand among students and will serve well the UCR community.

Furthermore, many application areas related to Data Science, such as astronomy, biology, and economics, historically have gender-balanced enrollment. Blending data science with these core applications will help bring these female populations into the broad domain of computing, thus enriching its diversity.

3. *Relationship of the new program to existing programs.*

The design of the proposed Data Science major was greatly inspired by two recent reports about creating undergraduate Data Science programs from (i) the National Academies of Sciences, Engineering and Medicine and (ii) the Park City Mathematics Institute, a NSF report endorsed by the Board of Directors of the American Statistical Association. Special effort was made to match the suggested guidelines from these reports. We were also influenced by two existing Data Science programs at UCI and University of San Francisco.

The proposed program is different in its requirements from the traditional Computer Science as well as the Statistics undergraduate degrees. For example, the Data Science program does not require upper division courses like CS150, CS152, CS153, CS161, CS120A, CS120B which are all core requirements for the CSE undergraduate major.

The Data Science program is also different from the Statistics undergraduate major. For example, the Data Science program does not require upper division courses like STAT157, STAT160A, STAT160B, and STAT160C, which are all core requirements for the Statistics undergraduate Bachelor of Science major. In addition to the core requirements, the technical and application electives of the Data Science program are also different from the traditional Computer Science and Statistics program, with a strong emphasis on data science applications in specific domain disciplines.

4. *The proposed curriculum. Great care should be given in this area, correct rubrics should be listed for courses, all cross listings should be listed, unit total considerations should be taken into account and totals should be verified by program staff, faculty, and appropriate Executive Committee personnel. A copy of the proposed program change should be provided for inclusion in the Catalog.*

Please see attached program description in Appendix A; the proposed catalog entry is in Appendix B.

5. *A list of faculty who will be involved in the program, including those teaching, advising, and administering.*

Below is the current list of faculty involved in the program (new faculty will be added as the program evolves):

Professors:

Xinping Cui, Statistics
Evangelos Hristidis, CSE
Daniel Jeske, Statistics
Eamonn Keogh, CSE
Stefano Lonardi, CSE
Christian Shelton, CSE
Vassilis Tsotras, CSE

Associate Professors:

James Flegal, Statistics
Jun Li, Statistics
Shujie Ma, Statistics
Weixin Yao, Statistics
Shuheng Zhou, Statistics

Assistant Professors:

Ahmed Eldawy, CSE
Esra Kurum, Statistics
Wenxiu Ma, Statistics
Amr Magdy, CSE
Vagelis Papalexakis, CSE

LPSOEs:

Mariam Salloum* (CSE)
Paea LePendu (CSE)
TBD* (Statistics)

Administration:

Daniel Jeske, Statistics
Vassilis Tsotras, CSE

* The CSE and Statistics Departments were recently awarded a $400K gift from the Technology Pathways Initiative for creating the new Data Science undergraduate program. A significant part of this gift will support the first year of two LPSOE/LSOE positions. CSE has already hired Dr. Salloum in one of these positions.

6. *For interdisciplinary programs, the degree of participation and the role of each department must be explicitly described. The chairs of all participating departments must provide written approval for the creation of the program and indicate their commitment to provide necessary resources including faculty release.*

The program will be administered through a joint steering committee. The steering committee will consist of three faculty from the Department of Computer Science and Engineering and three faculty from the Department of Statistics. The program director and the program co-director will be from different departments. The Director and co-Director are the coordinators of the program within their respective departments and colleges, and the Director has the added responsibility of coordinating and/or resolving campus-level issues. Normal terms for the Director and co-Director are 3 years and at the end of the 3-year term the co-Director is expected to accede to the Director position. If the Director (or co-Director) is unable to complete their 3-year term, a faculty from the same department will be chosen to assume the duties until the end of that 3-year term.

Directors and co-Directors will be filled through a nomination process that starts with the joint steering committee nominating names for the two positions to the Deans of the two colleges. The Deans will review the names and when they approve they will forward the names as nominees to the Provost/EVC for final approval. The same process will be used if and when the need arises to name an acting co-Director.

Circumstances may intervene that call for consecutive terms of a Director or a co-Director, or consecutive Directors or co-Directors from within the same department. These situations will be recognized, agreed upon, and handled by the joint steering committee, the two Deans, and the EVC/Provost on a case-by-case basis.

Director and co-Director stipend costs will be set by mutual agreement of the Deans of the two colleges, and they will split these costs 50:50.

Proposed changes to the program will need to be approved by the majority of the steering committee (including Director and co-Director). In the case of a tied vote, the Director makes the final decision. The proposed program change will then be reviewed by each college executive committee and then the committee on education policy. If these committees consider the change to be noncontroversial, the proposed change is placed on the Consent Calendar for a meeting of the Division of the Academic Senate.

Each department will be responsible for offering at least once per year any of the program's core courses taught by that department. The two departments will also cooperate in providing materials needed for any appropriate accreditation process (e.g., ABET or WASC.)

Each year the Director and co-Director will issue an annual report to the two Deans that describes the state of the program. Based on the report, the two Deans can agree to initiate procedures for having one college assume full control of the program, creating two parallel programs, or mutually agreeing to retire the program upon the graduation of the last enrolled student.

As with other intercollege majors (e.g., Neuroscience Undergraduate Major), when students declare the new major, they choose from which college they wish to have their B.Sc. degree awarded. Students whose degrees are awarded by the Bourns College of Engineering are advised in and have their records maintained by the Department of Computer Science and Engineering; students whose degrees are awarded by the College of Natural and Agricultural Sciences are advised in and have their records maintained by the CNAS Academic Advising Center. Students must fulfill the breadth requirements of the college they choose.

7. *Projected enrollment in the program.*

   The projected enrollment at the start of the program is 25-30 students; we expect a class of 50 students at steady state.

8. *Name of degree, if applicable, and the anticipated number of degrees to be granted when the program reaches steady state.*

   BS in Data Science, 40-50 degrees awarded per year

9. *Potential impact of the new program on existing programs. If the proposed program includes required courses from a department other than the administering department, the proposal must include a statement from the department indicating that it has been consulted and that it will provide access to the required courses.*

   The new major uses six existing lower division courses offered by the Department of Mathematics (namely: MATH009A, MATH009B, MATH009C, MATH010A, MATH011/CS011, MATH031). All these courses are currently being used by CSE and/or Statistics for satisfying college/major requirements in the BS degrees offered currently by the CSE and Statistics departments. Given that these courses are also been used by many other departments to satisfy college requirements, we do not expect a major impact in their offerings by the new program.

   The design of the new major led to the creation of four new upper division courses (namely: CS105, CS167, STAT156A, STAT156B). These courses have being approved by their respective departments and serve as electives in the BS programs offered by the CSE and Statistics departments. All other upper division courses required for the new major are currently being taught in the CSE and Statistics Departments.

   Moreover, the new major requires that students take four electives (organized in two-course sequences) in departments outside CSE and Statistics. These sequences are created from courses that are currently taught in their home departments (e.g., ECE, Business, Economics; more such sequences will be added in the future). As the major's students will have various options for their electives, the expected impact on those courses would be minimal. The chairs of the involved departments have been consulted and have agreed to provide access to the required course sequences (see attached letters).

   See attached letters of support from Math (Chair) and chairs of the application sequences Depts in Appendix C.

10. *A full listing of resources required for start-up and for operations. In cases where no additional resources will be needed, this must be explicitly stated. This listing may include: personnel (faculty FTE or temporary positions, Teaching Assistants or Readers, administrative staff, technical support); support services including computer facilities and library resources; space requirements. A plan indicating how the resources will be obtained would also be helpful to the committee in reviewing the proposal. A letter of support from the College Dean and/or Executive Vice Chancellor-Provost indicating endorsement as well as a promise of support for the proposal also would be extremely helpful.*

- Faculty FTE: the program will use existing faculty from the two departments as well as two new LSOE positions (one per department). The LSOE for CSE has already been hired (Mariam Salloum) while the LSOE position for Statistics has been approved. These two new LSOEs are partially supported by a recent gift (400K) from the Technology Pathways Initiative for creating the new Data Science undergraduate program.
- Teaching Assistants: at steady state we will have 50 students per year; this corresponds to about 1.5 additional lab/discussion sections (assuming a section is about 30-35 students). Students will take 4 courses per quarter, resulting in about 6 lab/discussion sections. Assuming a TA handles 2-3 sections, we estimate that the new program will need 2-3 TA positions per quarter. Such cost however will be easily covered by the tuition fees of the new students.
- Administrative Staff: the program will be administered by existing staff in the two home departments. BCOE students enrolled in the Data Science program through the CSE Department will be advised by BCOE's Office of Undergraduate Student Academic Affairs (OSAA). OSAA currently has eight full time advisors that will initially accommodate the Data Science students. The BCOE college is actively working on hiring three additional advisors that we be available to reduce the load as program grows. CNAS students enrolled in the Data Science program through the Department of Statistics will be advised by CNAS's Undergraduate Academic Advising Center (UAAC). The UAAC MPS (Math and Physical Sciences) advising unit currently has 1 full time advisor that will initially accommodate Data Science students. CNAS is actively working on hiring one additional MPS advisor that will be available to reduce the load as program grows.
- Computer facilities and library resources: no new facilities required
- Space requirements: no new space requirements.

11. *Both internal and external letters of support should be provided with the proposal. Internal letters of support are often from UCR department chairs and faculty of related programs. The external letters should be from other UC campuses or other peer institutions. Letters from off-campus help to establish the quality of the program and its fit within the context of related programs at other universities. Upon consultation with the CEP the demand for external letters may be waived.*

See Appendix D for letters of support from:
Dr. Walid Najjar, Chair, Department of Computer Science and Engineering
Dr. Xinping Cui, Department of Statistics.
Dr. Chris Lynch, Dean (BCOE)

Dr. Kathryn Uhrich, Dean (CNAS)

12. *Approvals from program faculty, College faculty (if the new proposal affects a college regulation), and the appropriate Executive Committee should be obtained before forwarding the new program to the attention of the Senate Analyst for CEP.*

Approved by Department of Computer Science and Engineering on 5/20/2019

Approved by Department of Statistics on 6/1/2018

Approved by BCOE Executive Committee on 8/26/2019

Approved by CNAS Executive Committee on 6/12/2019

Appendix A:

Draft of the new Data Science Undergraduate Program

Draft of the new Data Science Undergraduate Program

Program Design Committee members:
Daniel Jeske (Stat), Wenxiu Ma (Stat), Vagelis Papalexakis (CSE), Christian Shelton (CSE), Vassilis Tsotras (CSE), Shuheng Zhou (Stat)

Example Four Year Schedule

Year 1	Fall	Winter	Spring
	MATH 9A	MATH 9B	MATH 9C
	CS 10	CS 12	CS 14
	ENGL 1A	ENGL 1B	
	H/SS 1	H/SS 2	Phy_Sci
Year 2	**Fall**	**Winter**	**Spring**
	MATH 31	MATH 10A	CS 111
	CS 100	MATH 11 / CS 11	CS 105
	STAT 100A or equivalent	STAT 100B or equivalent	
	Bio_Sci	Sci 1	Sci 2
Year 3	**Fall**	**Winter**	**Spring**
	STAT 156A	STAT 156B	STAT 167 / CS 171
	CS 166 / CS 167	CS 141	
	STAT 147	ENGR 170/PBPL 170	[TECH ELECTIVE]
	H/SS 3	H/SS 4	H/SS 5
Year 4	**Fall**	**Winter**	**Spring**
	STAT 170A	STAT 170B	STAT 183 / CS 179
	ENGL 1C/ENGR 180		
	[APP 1]	[APP 2]	
	[TECH ELECTIVE]	[TECH ELECTIVE]	[TECH ELECTIVE]

Comments:

Four new courses, CS105, CS167, STAT156A, STAT156B

Course Descriptions:

CS 010 Introduction to Computer Science for Science, Mathematics, and Engineering I (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): a college mathematics course (may be taken concurrently) or credit for MATH 009A from the Advanced Placement Examination or the Mathematics Advisory Examination. Covers problem solving through structured programming of algorithms on computers using the C++ object-oriented language. Includes variables, expressions, input/output (I/O), branches, loops, functions, parameters, arrays, strings, file I/O, and classes. Also covers software design, testing, and debugging. Credit is not awarded for CS 010 if it has already been awarded for CS 010V or CS 030.

CS 012 Introduction to Computer Science for Science, Mathematics, and Engineering II (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 010 or CS 010V with a grade of "C" or better; familiarity with C or C++ language. Covers structured and object-oriented programming in C++. Emphasizes good programming principles and development of substantial programs. Topics include recursion, pointers, linked lists, abstract data types, and libraries. Also covers software engineering principles. Credit is awarded for only one of CS 012 or CS 012V or CS 013.

CS 014 Introduction to Data Structures and Algorithms (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 012 or CS 012V with a grade of "C" or better or CS 013 with a grade of "C" or better; proficiency in C++. Topics include basic data structures such as arrays, lists, stacks, and queues. Covers dictionaries (including binary search trees and hashing) and priority queues (heaps). Offers an introductory analysis of algorithms, sorting algorithms, and object-oriented programming including abstract data types, inheritance, and polymorphism. Explores solving complex problems through structured software development.

CS 100 Software Construction (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 014 with a grade of "C-" or better. Emphasizes development of software systems. Topics include design and implementation strategies; selection and mastery of programming languages, environment tools, and development processes. Develops skill in programming, testing, debugging, performance evaluation, component integration, maintenance, and documentation. Covers professional and ethical responsibilities and the need to stay current with technology.

CS 105 Data Analysis Tools (4) -- *new course* -- Lecture, 3 hours; laboratory, 3 hours. Prerequisites(s): CS 14. Introduction to data analysis tools including data statistics, simple data storage types, data acquisition from the web and public APIs, data cleaning, crowdsourcing for

data collection and cleaning, supervised and unsupervised learning techniques, and data visualization. The laboratory will also include hands-on exercises on the aforementioned topics in Python and MATLAB.

CS 111 Discrete Structures (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 010 or CS 010V; CS 011/MATH 011; MATH 009C (or MATH 09HC). A study of discrete mathematical structures emphasizing applications to computer science. Topics include asymptotic notation, generating functions, recurrence equations, elements of graph theory, trees, algebraic structures, and number theory.

CS 141 Intermediate Data Structures and Algorithms (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 014 with a grade of "C-" or better; CS 111; MATH 009C or MATH 09HC; proficiency in C++. Explores basic algorithm analysis using asymptotic notations, summation and recurrence relations, and algorithms and data structures for discrete structures including trees, strings, and graphs. Also covers general algorithm design techniques including "divide-and-conquer," the greedy method, and dynamic programming. Integrates knowledge of data structures, algorithms, and programming.

CS 166 Database Management Systems (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 100, CS 111. Covers architecture of database management systems; relational, network, and hierarchical models; distributed database concepts; query languages; implementation issues; and privacy and security of the database.

CS 167 Introduction to Big Data Management (4) -- *new course*-- Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 100, CS111. Introduces the design of big-data systems and their application in data management and processing. Describes the common functionality in big-data processing such as distributed storage, resource management, query processing, fault-tolerance, and APIs. Covers the popular big-data technologies such as MapReduce, key-value stores, and semi-structured data management.

CS 171 Introduction to Machine Learning and Data Mining (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 100, CS 111. Introduces formalisms and methods in data mining and machine learning. Topics include data representation, supervised learning, and classification. Covers regression and clustering. Also covers rule learning, function approximation, and margin-based methods.

CS 179 (E-Z) Project in Computer Science (4) For hours and prerequisites, see segment descriptions. Under the direction of a faculty member, student teams propose, design, build, test, and document software and/or hardware devices or systems. Emphasizes professional and ethical responsibilities and the need to stay current on technology and its global impact on economics, society, and the environment.

MATH 009A First-Year Calculus (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 005 with a grade of "C-" or better or MATH 006B with a grade of "C-" or better or equivalent. Introduction to the differential calculus of functions of one variable. Credit is awarded for only one of MATH 008B, MATH 009A, or MATH 09HA.

MATH 009B First-Year Calculus (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 008B with a grade of "C-" or better or MATH 009A with a grade of "C-" or better or MATH 09HA with a grade of "C-" or better. Introduction to the integral calculus of functions of one variable. Credit is awarded for only one of MATH 009B or MATH 09HB.

MATH 009C First-Year Calculus (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 009B with a grade of "C-" or better or MATH 09HB with a grade of "C-" or better. Further topics from integral calculus, improper integrals, infinite series, Taylor's series, and Taylor's theorem. Credit is awarded for only one of MATH 009C or MATH 09HC.

MATH 010A Calculus of Several Variables (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 009B with a grade of "C-" or better or MATH 09HB with a "C-" or better or equivalent. Topics include Euclidean geometry, matrices and linear functions, determinants, partial derivatives, directional derivatives, Jacobians, gradients, chain rule, and Taylor's theorem for several variables.

MATH 011 Introduction to Discrete Structures (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 009A (or MATH 09HA); CS 010 or CS 010V or MATH 009B (or MATH 09HB). Introduction to basic concepts of discrete mathematics emphasizing applications to computer science. Topics include prepositional and predicate calculi, elementary set theory, functions, relations, proof techniques, elements of number theory, enumeration, and discrete probability. **Cross-listed with CS 011**.

MATH 031 Applied Linear Algebra (5) Lecture, 3 hours; discussion, 2 hours. Prerequisite(s): MATH 009A (or MATH 09HA) with a grade "C-" or better and CS 010 or CS 010V or MATH 009B (or MATH 09HB) with a grade of "C-" or better. A study of matrices and systems of linear equations, determinants, Gaussian elimination, vector spaces, linear independence and linear transformation, orthogonality, eigenvalues, and eigenvectors. Also examines selected topics and applications.

STAT 100A Introduction to Statistics (5) Lecture, 3 hours; discussion, 1 hour; laboratory, 3 hours. Prerequisite(s): MATH 005 or MATH 006B or MATH 009A or MATH 09HA or equivalent. A general introduction to descriptive and inferential statistics. Topics include histograms; descriptive statistics; probability; normal, binomial, and Poisson distributions; sampling distributions; hypothesis testing; and confidence intervals. Credit is awarded for only one of STAT 048 or STAT 100A.

STAT 100B Introduction to Statistics (5) Lecture, 3 hours; discussion, 1 hour; laboratory, 3 hours. Prerequisite(s): STAT 100A "An introduction to statistics" with a grade of C- or better. Topics include linear regression, correlation, analysis of variance, and simple experimental designs.

STAT 147 Introduction to Statistical Computing (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 100A or equivalent. Introduction to computer-assisted data analysis and statistical inference using both the R and SAS packages. Topics include input, output, and editing of data; graphical procedures; descriptive statistics; cross-tabulation; inferential statistical techniques including estimation and testing; and analysis of variance.

STAT 156A Mathematical Statistics with Applications for Data Science I (4) -- *new course*-- Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 009C or consent of instructor. Introduction to frequentist probability concepts, random variables, and their distributions. Discussion of key theorems and inequalities in probability theory. Introduction to frequentist methods of point and interval estimation.

STAT 156B Mathematical Statistics with Applications for Data Science II (4) -- *new course*-- Lecture, 3 hours; discussion, 1 hours. Prerequisite(s): STAT 156A or consent of instructor. Introduction to Bayesian probability concepts, illustrative application of Frequentist theory to linear regression, logistic regression and ANOVA, analysis of contingency tables, applications of sequential statistics, methods for observational studies and for missing data analyses.

STAT 167 Introduction to Data Science (4) Lecture, 3 hours; discussion, 1 hours. Prerequisite(s): STAT 100B or STAT 155, with a grade of C- or better, or equivalents; STAT 147, with a grade of C- or better. Introduction to data science using the R programming language. Topics include big data management, visualization and analytical skills, unsupervised and supervised statistical learning methods, and real-world data science application examples.

STAT 170A Regression Analysis (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 157, STAT 160C, or equivalents. Topics include simple and multiple linear regression, scatter-plots, and point and interval estimation. Addresses prediction, testing, calibration, interpretation, and practical applications of multiple regression. Explores simple, partial, and multiple correlation; variable selection methods; diagnostic procedures; and regression for longitudinal data.

STAT 170B Design of Experiments (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 170A with a grade of "C-" or better. Topics include principles of design; completely randomized designs; and one-way analysis of variance. Covers complete block designs and two-way analysis of variance; multiple comparisons; and complete factorial experiments. Explores fixed, random, and mixed models; split-plot designs; nested designs; analysis of covariance; sample size determination; and power analysis.

STAT 183 Statistical Consulting (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 170B; STAT 171, may be taken concurrently; Restricted to class level standing of senior. Introduces the statistical consulting process. Promotes consulting skills including developing effective communication skills, applying statistical methodology to client projects, and learning how to manage time and resources in a consulting environment. Satisfactory (S) or No Credit (NC) grading is not available.

ENGR 170 Technology, Policy, and Ethics (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): upper-division standing. Provides contemporary perspectives on interplays between technology, public policy, and ethics. Covers social, legal, and ethical issues such as liability, as well as environmental, patent, and copyright law. Cross-listed with PBPL 170.

TECHNICAL ELECTIVES

MATH 120 Optimization (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 010A with a grade of "C-" or better; MATH 031 with a grade of "C-" or better. Introduction to classical optimization including unconstrained and constrained problems in several variables, Addresses Jacobian and Lagrangian methods and the Kuhn-Tucker conditions. Covers the basic concepts of linear programming including the simplex method and duality with applications to other subjects.

MATH 135A Numerical Analysis (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 010 or CS 010V or equivalent with a grade of "C-" or better; MATH 031 with a grade of "C-" or better (may be taken concurrently). A study of numerical methods for determining solutions to nonlinear equations and simultaneous linear equations. Topics also include interpolation, techniques of error analysis, and computer applications.

CS 170 Introduction to Artificial Intelligence (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 100 with a grade of "C-" or better, CS 111. An introduction to the field of artificial intelligence. Focuses on discrete-valued problems. Covers heuristic search, problem representation, and classical planning. Also covers constraint satisfaction and logical inference.

CS 172 Introduction to Information Retrieval (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 100; CS 111; EE 114 or STAT 155. Introduces information retrieval (IR) principles and techniques for indexing and searching document collections. Topics include Web search, text processing, ranking algorithms, search in social networks, and search evaluation. Also studies scalability issues in search engines. Satisfactory (S) or No Credit (NC) grading is not available.

CS 180 Introduction to Software Engineering (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 100. A study of software engineering techniques for the development,

maintenance, and evolution of large software systems. Topics include requirements and specification; system design and implementation; debugging, testing, and quality assurance; reengineering; project management; software process; tools; and environments.

CS 181 Principles of Programming Languages (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 061, CS 100, CS 111, CS 150. Covers the principles of programming language design. Includes the study and comparison of several programming languages, their features, and their implementations.

STAT 104 Decision Analysis and Management Science (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 008 or equivalent; STAT 048 or STAT 100A or equivalent; upper-division standing. A survey of deterministic and probabilistic models for decision making. Topics include linear programming and extensions, networks, dynamic programming, decision trees, queuing models, and simulation. Explores the application of these models in decision making. Emphasizes use of the computer. Cross-listed with BUS 104.

STAT 127 Introduction to Quality Improvements (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 048 or STAT 100A or consent of instructor. Explores Deming's 14 points for management, graphical methods, fishbone diagram, Pareto analysis, control charts for attributes and variables, cusum and moving average charts, process-capability, economic design, acceptance sampling, Taguchi method, parameter design, tolerance design, reliability, hazard rate, censoring, and accelerated life testing. Cross-listed with BUS 127.

STAT 130 Sampling Surveys (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 100B, or equivalent. Covers simple random sampling, addresses stratified sampling, cluster sampling, and ratio and regression estimates. Explores random response, capture-recapture, and jack-knife techniques.

STAT 140 Nonparametric Techniques (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 100B or equivalent. Covers randomization tests, rank tests, methods of association, and distribution-free tests.

STAT 146 Statistical Forecasting Techniques (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 100B or equivalent. Topics include exponential smoothing, simple and multiple regression analysis, time series, trend analysis, and seasonal analysis

STAT 157 Statistical Computer Packages (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 100B with a grade of C- or better, or equivalents; STAT 147 with a grade of C- or better; or consent of instructor. A study of major statistical packages including SAS with the emphasizing advanced SAS programming. Topics include advanced graphical procedures, linear models (regression and analysis of variance), multivariate techniques, and SAS macros.

STAT 171 General Statistical Models (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 170B. Generalized linear models and least squares. Analysis of covariance, nonlinear regression, nonlinear least squares. Regression methods for discrete data: loglinear models, logistic regression, discriminant analysis. Regression methods for life data. Cox survival model, Kaplan-Meier estimation, Mantel-Haenszel test.

APPLICATION COURSE SEQUENCES

Economics: {ECON 108, ECON 136}

Business: {BUS 104, BUS 123}, {BUS 124, BUS 125}, {BUS 103, BUS 115}.

Earth Sciences: {GEO 111, GEO 161}, {GEO 115, GEO 147}

Electrical and Computer Engineering: {EE142, EE146}

Biology/Bioinformatics: {BIO 5A, BIO 20}

BIOL 005A Introduction to Cell and Molecular Biology (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): BIOL 05LA (may be taken concurrently) or BIOL 020 (may be taken concurrently) with grades of "C-" or better; CHEM 001A and CHEM 01LA with grades of "C-" or better or CHEM 01HA and CHEM 1HLA with grades of "C-" or better; consent of instructor is required for students repeating the course. An intensive course designed to prepare for upper-division courses in cell and molecular biology. Covers biochemical, structural, metabolic, and genetic aspects of cells. Required for Biology majors; recommended for science majors desiring an introduction to biology.

BIOL 020 Dynamic Genome (2) F Laboratory, 6 hours. Prerequisite(s): CHEM 001A or CHEM 01HA, MATH 008B or MATH 009A (MATH 009A may be taken concurrently); freshman standing. Introduces computational and experimental approaches in investigating the genomes of plants and animals. Explores scientific discovery using the tools of bioinformatics and genomics. Includes participation in research projects being conducted on campus. Credit is not awarded for BIOL 020 if it has already been awarded for BIOL 05LA.

BUS 104 Decision Analysis and Management Science (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 008 or equivalent; STAT 048 or STAT 100A or equivalent; upper-division standing. A survey of deterministic and probabilistic models for decision making. Topics include linear programming and extensions, networks, dynamic programming, decision trees, queuing models, and simulation. Explores the application of these models in decision making. Emphasizes use of the computer. Cross-listed with STAT 104.

BUS 123 Spreadsheet Modeling for Decision-Making (4) Lecture, 3 hours; written work, 3 hours. Prerequisite(s): BUS 104/STAT 104 or consent of instructor. Introduces the fundamental techniques of using data to make informed management decisions in the presence of uncertainty of advanced Microsoft Excel functionality. Uses spreadsheet modeling for decision analysis and optimization applications. Enhances and reinforces analytical skills and the ability to intelligently use information for making decisions under uncertainty.

BUS 124 Business Analytics (4) Lecture, 3 hours; term paper, 1 hour; written work, 2 hours. Prerequisite(s): STAT 048 or consent of instructor. Provides fundamental concepts and tools needed to understand the emerging role of business analytics in organizations. Applies basic business analytics tools in a spreadsheet environment. Introduces market-leading techniques that help identify and manage key data from business processes. Provides the essential tools required for data mining and business process re-engineering.

BUS 125 Simulation for Business (4) Lecture, 3 hours; extra reading, 1.5 hours; outside projects, 1.5 hours. Prerequisite(s): BUS 104/STAT 104, STAT 048, or equivalents. Introduces simulation as a tool for analyzing complex systems. Analyzes and discusses the theory and practice of modeling through simulation. Topics include modeling uncertainty and collecting input data, Monte Carlo simulation techniques, model verification and validation, and sensitivity analysis. Examines applications in finance, marketing, operations, and supply chain management.

BUS 103 Marketing and Distribution Management (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): upper-division standing or consent of instructor. An introduction to the role of marketing in society with emphasis on concepts, marketing methods, and institutions.

BUS 115 Marketing Research (4) Lecture, 3 hours; outside research, 3 hours. Prerequisite(s): BUS 103. Covers types and sources of marketing information, the marketing research process, and techniques of data collection and analysis, including consumer and customer surveys and test marketing. Examines both quantitative and qualitative research with analysis of the values and limitations of data. Emphasis is placed on evaluation and interpretation of results.

ECON 108 Introductory Econometrics (5) Lecture, 3 hours; discussion, 1 hour; laboratory, 1 hour; written work, 1 hour; outside research, 1 hour. Prerequisite(s): ECON 107 or consent of instructor. A continuation of ECON 107. Covers, at an introductory level, the basic concepts related to logit and probit models, simultaneous equations models, dynamic time series models, unit roots and auto-regressive conditional heteroskedasticity (ARCH), and forecasting.

ECON 136 Empirical Financial Economics (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 107 or consent of instructor. Discusses various empirical aspects of financial economics and financial risk management. Addresses both theoretical and applied issues in finance, risk management, and econometrics. Also discusses quantitative analysis, simulation methods, and case studies.

EE 142 Pattern Recognition and Analysis of Sensor Data (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): EE 114 or STAT 155 or consent of the instructor. Introduction to pattern recognition for multi-dimensional, multi-modal sensor data such as images, videos, and smart grids. Classification and decision functions, feature extraction, regression, and neural networks. Clustering and dimensionality reduction for unsupervised learning. Dynamic models and tracking. Applications of pattern recognition in computer vision, robotics, smart grids, etc.

EE 146 Computer Vision (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): senior standing in Computer Science or Electrical Engineering, or consent of instructor. Imaging formation, early vision processing, boundary detection, region growing, two-dimensional and three-dimensional object representation and recognition techniques. Experiments for each topic are carried out.

GEO 111 Numerical Skills in Geoscience (4) Lecture, 3 hours; laboratory, 3 hours; term paper, 1 hour;. Prerequisite(s): MATH 009C. An introduction to computer programming and numerical modelling. The class will teach the basic principles of how computer programs are written and numerical models constructed, and provide data processing and visualization skills. The class will hence foster an ability to apply numerical techniques to problems in Earth and Environmental Sciences.

GEO 161 Cenozoic Climate Change (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): one of the following courses with a grade of "C-" or better; GEO 001 or GEO 002 or GEO 009 or GEO 011. Examines physical, chemical, and biological evidence of climatic and environmental change throughout the Cenozoic Era (last 65 million years) to provide a framework for understanding natural environmental change and for predicting future change. Introduces students to computer-based numerical methods of data analysis for interpreting past records of environmental change.

GEO 115 Geologic Maps and Landforms (5) Lecture, 2 hours; laboratory, 6 hours; field, 30 hours per quarter. Prerequisite(s): GEO 001 (may be taken concurrently); MATH 004 or MATH 005, or MATH 008A. Examines characteristic patterns of bedrock outcrops, surficial deposits, the related landforms, and their representation on maps. Covers unconformities, folds, faults, intrusions, alluvial fans, river terraces, and landforms indicative of glaciers, volcanoes, landslides, and earthquakes. Applies map information to resource and hazard evaluation.

GEO 147 Active Tectonics and Remote Sensing (4) Lecture, 2 hours; discussion, 1 hour; laboratory, 3 hours. Prerequisite(s): GEO 001, GEO 115; or consent of instructor. A computer-based course that introduces active tectonics and the earthquake cycle and how they are studied using remote sensing data. Explores examples of actively deforming areas from around the world using computer visualization software and freely available data sources (satellite imagery, digital topography, GPS and earthquake data).

Appendix B:

Proposed catalog entry for the Data Science Undergraduate Program

Data Science Undergraduate Major (Catalog entry)

Major

Data science studies the collection, management, and analysis of data to extract knowledge. It is a multidisciplinary program with core components from Computer Science and Statistics, and required application study in a variety of empirical disciplines. Courses span the discipline from theory to practice and prepare students for careers or graduate studies in data-intensive fields.

The B.S. in Data Science major is an intercollege major offered by the Bourns College of Engineering and the College of Natural and Agricultural Sciences. A B.S. degree in Data Science is offered by each college. When students declare the major, they choose from which college they wish to have their degree awarded. Students whose degrees are awarded by the Bourns College of Engineering are advised in and have their records maintained by the BCOE Office of Student Academic Affairs; students whose degrees are awarded by the College of Natural and Agricultural Sciences are advised in and have their records maintained by the CNAS Undergraduate Academic Advising Center. Breadth requirements vary by college; and students must fulfill the breadth requirements of the college they choose.

All undergraduates in the Bourns College of Engineering must see an advisor at least annually. Visit student.engr.ucr.edu for details.

University Requirements

See Undergraduate Students section.

College Requirements

College breadth requirements vary depending on which college is chosen to award the degree. For details on breath requirements, see the Colleges and Programs section of this catalog. Students are encouraged to consult their advisor regarding requirements.

Major Requirements

1. Lower-division requirements (37 units):
   a) CS 010; CS 012; CS 014
   b) MATH 009A; MATH 009B; MATH 009C; MATH 010A; MATH 031
   c) MATH 011/CS 011
2. Upper-division requirements (60 units):
   a) CS 105; CS 141
   b) STAT 147; STAT 156A; STAT 156B; STAT 170A; STAT 170B
   c) ENGR 170 or PBPL 170
   d) CS 166 or CS 167
   e) STAT 167 or CS 171

f) STAT 183 or CS 179 (E-Z)

g) Four courses (at least 16 units) from the following list, none of which can also be used to satisfy other major requirements:

CS 166; CS 167; CS 170; CS 172; CS 180; CS 181; MATH 120; MATH 135A; STAT 104; STAT 127; STAT 130; STAT 140; STAT 146; STAT 157; STAT 171.

3. Major Breadth requirement (8 units)

One two-course sequence, chosen from the course sequences listed below:

    i.   BIO 5A and BIO 20

    ii.   BUS 103 and BUS 115

    iii.   BUS 104 and BUS 123

    iv.   BUS 124 and BUS 125

    v.   ECON 108 and ECON 136

    vi.   EE 142 and EE 146

    vii.   GEO 111 and GEO 161

    viii.   GEO 115 and GEO 147

Note An introductory Statistics class, such as STAT 100A and STAT 100B, is strongly recommended.

Appendix C:

Letters of support/collaboration from other Departments (Mathematics, Earth Sciences, Economics, EEOB, Electrical and Computer Engineering)

DATE: October 18, 2018

TO: Dr. Vassilis Tsotras, Department Chair
             Department of Computer Science

FROM: Dr. Yat Sun Poon, Department Chair
             Department of Mathematics

RE: B.S. in Data Science proposal

Dear Vassilis,

I am glad to hear that a BS degree in data science is being brought to UCR through a joint effort between the Statistics and Computer Science departments. I believe many students will find it appealing. I cannot see any potential problems with your plans.

Subject: Earth Sciences courses for the new Data Science undergraduate program

Date: Fri, 14 Dec 2018 15:52:33 -0800

From: David Oglesby <doglesby@ucr.edu>

To: Vassilis Tsotras <tsotras@cs.ucr.edu>

Dear Vassilis:

I am in support of the Data Science undergraduate program between the Earth Sciences and Statistics Departments. As we discussed, I am in favor of adding the following Earth Sciences two-course sequences as electives available to the undergraduate students in the Data Science program:

GEO 111 and GEO 161
GEO 115 and GEO 147

Even though GEO 115 requires MATH 004 or MATH 005, or MATH 008A, the Data Science students would already have appropriate MATH core courses (e.g. MATH 9A-9C) so they would be allowed to take GEO115.

Sincerely,
David

David D. Oglesby
Professor of Geophysics
Chair, Department of Earth Sciences
University of California, Riverside
Riverside, CA 92521-0423
PH: (951) 827-2036
FAX: (951) 827-4324
david.oglesby@ucr.edu

From: **Steven M Helfand** <steven.helfand@ucr.edu>
Date: Mon, Nov 26, 2018 at 5:32 PM
Subject: Data Science Majors
To: Daniel R Jeske <daniel.jeske@ucr.edu>
Cc: Gloria Gonzalez-Rivera <ggonzale@ucr.edu>, Anthony L Gonzalez
<anthony.gonzalez@ucr.edu>, Bradley Troy Scalf <bradley.scalf@ucr.edu>

Dean Dan,

I write to affirm that the Economics Department will accept STAT 170A as a suitable
prerequisite for Econ 108 and Econ 136. This will permit the Data Science majors to take these
classes without taking Econ 107 first. Academically, we see no difficulty with this substitution.

Understanding that the data science program is just beginning and that data science students
will likely not be taking Econ 108 or 136 until their third year in the program, we would like to
move forward with this agreement for a trial period of five years, starting in 2019-20. We wish to
do this as a five year experiment because we are concerned about the size of the classes, and
Econ 108 in particular. Currently we plan to offer Econ 108 once per year, with a maximum size
of 35. This is the size of the lab, and all that we can handle with one TA who teaches the
sections and lab. If it were to grow beyond 35 students, we would need to hire a second TA,
and we don't currently have funding to do this. At its current size, we expect that there would be
5-10 seats each year for non-econ majors.

Sincerely,

Steven

___

Steven Helfand
Chair, Department of Economics
University of California
Riverside, CA 92521-0427
Office: (951) 827-1470
steven.helfand@ucr.edu
http://economics.ucr.edu/people/faculty/helfand/

___

DEPARTMENT OF EVOLUTION, ECOLOGY, AND
ORGANISMAL BIOLOGY
RIVERSIDE, CALIFORNIA 92521 USA
VOICE: (951) 827-5903
FAX: (951) 827-4286

November 27, 2018
Professor Helen Regan
Chair
Department of Evolution, Ecology, and
Organismal Biology

Prof. Vassilis Tsotras
Director, Data Science Center at UCR

Dear Tsotras:

The Department of Evolution, Ecology, and Organismal Biology supports initiation of the
Data Science undergraduate program at UCR. We are in favor of adding two Biology
courses to be taken as electives by the undergraduate students in the Data Science
program. The following two Biology courses are most relevant to the Data Science
undergraduate program:

BIOL 005A – Introduction to Cell and Molecular Biology
BIOL 020 – Dynamic Genome

Both courses are offered every quarter, often more than once per quarter, and students
from CSE and Statistics should be able to take them provided the prerequisites are
satisfied.

Sincerely,

Helen Regan,
Professor and Chair
Department of Evolution, Ecology, and Organismal Biology at UCR

April 22, 2018

Prof. Vassilis Tsotras
Director, Data Science Center at UCR

Dear Vassilis:

I strongly support initiation of the Data Science undergraduate program at UCR. I am also very much in favor of adding two ECE-based courses to be taken as electives by the undergraduate students in the Data Science program. The following two ECE courses are most relevant to the Data Science undergraduate program:

EE142 - Pattern Recognition and Analysis of Sensor Data
EE146 - Computer Vision

Both courses also allow EE prerequisites to be waived by consent of instructor, and students from CSE and Statistics should be able to take them.

Sincerely,

Ilya Dumer,
Professor and Chair
Department of Electrical and Computer Engineering at UCR

Appendix D:

Letters of support from the chairs of CSE and Statistics and the BCOE and CNAS Deans.

UNIVERSITY OF CALIFORNIA
UC RIVERSIDE
Bourns College of Engineering

Walid A. Najjar
Professor and Chair
Department of Computer Science and Engineering
351 Winston Chung Hall   Riverside, CA 92521
Tel 951.827.5639   Fax 951.827.4643
najjar@cs.ucr.edu   www.cs.ucr.edu/~najjar

December 28, 2018

To Whom It May Concern:

This letter is in strong support for the proposed undergraduate program in Data Science at UCR, to be jointly offered by the Departments of Computer Science & Engineering and Statistics.

Data Science has grown out of the need to integrate computational and statistical approaches to processing and interpreting data. Tools originating from data science are now becoming indispensable in today's science, technology, and business, fueling the demand for data scientists. Recognizing this need, our department has taken the initiative to develop research and educational programs in Data Science at UCR. In collaboration with other departments on campus, an online MS program in Data Science is already being offered. Recently the Data Science Center has been established that includes multiple newly hired faculty members, and has been given designated space in the new MRB building. Creating an undergraduate program in Data Science is the next step in this endeavor. This program will address critical and documented shortage of college graduates trained in Data Science, in industry, government, and academia.

The CSE Department enthusiastically supports the creation of the Data Science program and is fully committed to providing necessary resources within its capabilities for the instruction and advising of its students. As Data Science is at the intersection of Statistics and Computer Science, we look forward to collaborate with the Statistics department to establish the new undergraduate Data Science program at UCR.

Walid A. Najjar

Professor and Chair
Department of Computer Science and Engineering
Bourns College of Engineering
University of California Riverside

November 14, 2018

Dear Committee Members:

On behalf of the UCR Department of Statistics, I am writing in strong support for the proposed inter-departmental undergraduate program in Data Science at UCR.

Data Science is experiencing a rapid and unplanned growth. The website http://datascience.community/colleges currently lists 530 programs in Data Science, analytics and related fields at over 200 universities around the world. The vast majority of these are master's degrees and certificates programs offered both traditionally and online. There has been rapid growth of undergraduate programs at both research institutions and liberal arts colleges. It is expected this number to increase significantly in the near future.

Recognizing this need, our department has taken steps to develop research and educational programs in Data Science at UCR including the new undergraduate course "Introduction to Data Science" that has been taught for the past two years and the new graduate courses " Statistical Computing" and "Statistical Data Mining Methods" that have been taught for both Statistics graduate program and MS online program in Data Science at UCR.

Data Science program at the undergraduate level provides a synergistic approach to real world problem solving, one that leverages the content in Statistics, Computer Science and Mathematics but using case-based focus and hands-on approach. We have successfully boosted undergraduate enrollment into our Statistics program over past few years. The number of students had increased from a dozen to 136. We believe we will be able to attract more students with curriculum uniquely tailored for Data Science program, i.e., "students learn Data Science by doing Data Science". We believe our Data Science program will serve students well whether they join the marketplace or continue on to more advanced study.

Recognizing that Data Science is at the intersection of Statistics and Computer Science, the statistics department embraces the opportunity to partner with the computer science and engineering department to establish an undergraduate Data Science program at UCR.

Sincerely,

Xinping Cui, Ph.D.
Professor and Chair
Department of Statistics
University of California, Riverside
Tel: (951) 827-2563 | Fax: (951) 827-3286
E-mail: Xinping.Cui@ucr.edu

27 November, 2018

To whom it may concern:

I am writing this letter in enthusiastic support for the enclosed proposal to establish an undergraduate degree program in Data Science. This program will be jointly administered between BCOE and CNAS, with degrees granted by each college. I have had detailed conversations with Professor Tsotras and the program committee and fully support the academic program and administrative structure. I commit to working with them and leadership from CNAS to insure the program's success.

This program will help address the critical and documented shortage of college graduates educated in Data Science and the critical interpretation and analysis of large datasets. We expect students attracted to this program to come from a variety of backgrounds and other interests, increasing the diversity among Engineering students, and those in computational fields in particular. This program is partially supported by a grant from the Center for Advancing Women in Technology (CAWIT), which funds two L(P)SOE positions (one in BCOE and one in CNAS). I have recently joined the CAWIT advisory board and believe the data science program will bring more women into computing careers.

The Bourns College of Engineering looks forward to partnering with the College of Agricultural and Natural Sciences to offer this degree to UCR students. It is an important part of keeping our curriculum current and educating our students in the era of big data.

Sincerely,

Prof. Christopher S. Lynch
Dean, Bourns College of Engineering
University of California, Riverside

UC RIVERSIDE
UNIVERSITY OF CALIFORNIA

College of Natural and Agricultural Sciences
Agricultural Experiment Station and Cooperative Extension
Office of the Dean – 2258D Geology Building
Riverside, CA 92521-0127

December 10, 2018

To Whom It May Concern:

RE: Data Science Undergraduate Major

I am writing to convey my support for the proposal to establish an undergraduate degree program in Data Science. The Department of Statistics in the College of Natural and Agricultural Sciences ("CNAS") and the Department of Computer Science and Engineering in the Bourns College of Engineering ("BCOE") will jointly administer this program, which will allow students to obtain a BS degree through an integrated plan of study. The program will provide an efficient and cost-effective academic path for students interested in careers within a variety of areas relating to data science.

Data Science as a discipline is found at the intersection of computer science and statistics and permeates other disciplines as well. For this program, the partnership between CNAS and BCOE is well demonstrated by the list of faculty involved: a healthy mix of faculty from both colleges. Sharing the costs for the director and co-director stipends between the two colleges is another illustration of integration of the two colleges in the program. Costs for director and co-director stipends will be equally split (50% - 50%) between CNAS and BCOE. Exact amounts will be determined at the time the program is approved.

We look forward to partnering with the Bourns College of Engineering to offer this degree program to our students.

Sincerely,

Kathryn Uhrich, Dean
College of Natural and Agricultural Sciences

From: Dylan Rodriguez <dylanr@ucr.edu>
Sent: Wednesday, October 30, 2019 1:11 PM
To: Vassilis Tsotras <tsotras@cs.ucr.edu>
Cc: Cherysa P Cortez <cherysa.cortez@ucr.edu>; Daniel R Jeske <daniel.jeske@ucr.edu>
Subject: Re: Data Science Major Proposal

Dear Vassilis:

I'm writing to provide the attached consultative feedback from CEP and P&B on the proposal for the new major in Data Science. As you will see, P&B has some substantive feedback to which you may wish to respond with a revised proposal. At its regular meeting of October 28 (this past Monday), the Senate's Executive Council engaged in some significant discussion regarding the need for and importance of such a program. While Council agreed on the academic, pedagogical, and institutional merits of the proposed major, it also agreed with P&B's consultative concerns about the absence of a clearly delineated budget (and budgetary accountabilities) in the submitted proposal. Some Council members also expressed concern about the narrow scope of the proposal in relation to the social sciences and whether courses from other disciplines may be included and/or impacted within the present scope of the proposal.

I trust that this consultation will help you consider your next steps in the proposal's development. Please feel free to contact me with any questions.

peace
dylan

Dylan Rodríguez
President-Elect (2020-2021), American Studies Association
Chair of the Academic Senate (2016-2020), UC Riverside Division
Professor, Dept. of Media and Cultural Studies
University of California, Riverside
Riverside, CA 92521

"If one were forced for the sake of clarity to define [fascism] in a word simple enough for all to understand, that word would be 'reform.'"
-George Jackson

organizations i support:
http://www.socallib.org/
www.criticalresistance.org
http://scholarsforsocialjustice.com/

 my books:

Forced Passages: Imprisoned Radical Intellectuals and the U.S. Prison Regime (Univ. of Minnesota Press, 2006)

Suspended Apocalypse: White Supremacy, Genocide, and the Filipino Condition (Univ. of Minnesota Press, 2009)

Critical Ethnic Studies: A Reader (co-editor) (Duke Univ. Press, 2016)

October 7, 2019

To: Dylan Rodríguez, Chair
           Riverside Division

From: Stefano Vidussi, Chair
           Committee on Educational Policy

Re: Second Review of Proposed B.S. in Data Science

The Committee on Educational Policy (CEP) reviewed and voted to support the revised proposal for a new B.S. in Data Science at their October 4, 2019 meeting.

PLANNING & BUDGET

October 22, 2019

To: Dylan Rodriguez, Chair
           Riverside Division

From: Harry Tom, Chair
           Committee on Planning and Budget

**Re: [Campus Review] Proposal: New Undergraduate Major: Data Science
             Undergraduate Major – Revised**

The Committee on Planning & Budget (P&B) reviewed the revised proposal for a new undergraduate major in Data Science and requests more clarification of the budget, including which units will cover the costs, both initially and in the long run, and which units will receive income generated by any increase in or shift of majors. The proposal counts on the full allotment per student apportion to deans as income for this major but does not account for all the expenses associated with teaching the estimated 148 students expected in the steady state. The budget should include as expenses the proportion of the time of existing faculty and other personnel dedicated to dealing with those students (i.e., if half of the students in a given class are from this major, half of the part of the salary of that faculty member associated with that class needs to be covered by the major). The work of administration members, as well as the use of services and facilities (classrooms, library, etc.) should be accounted the same way. At present, the budget provided is not realistic. It is also unclear that the issues raised in P&B's previous memo dated April 12, 2019 were addressed.

Proposal for the new undergraduate major in Data Science

1. *Name of the academic program and the department or unit that will administer the program.*

Name: Data Science Undergraduate Major

Administration: The Data Science major will be administered <u>jointly</u> by the Department of Computer Science and Engineering (CSE) and the Department of Statistics.

2. *A thorough justification, including the motivation for the creation of the program in terms of student interest and professional or academic importance.*

Data has become ubiquitous in everyday life, impacting every profession, from entry-level office workers to CEOs, from team coaches to general managers, from accountants to CFOs. Businesses now have data available to them at a scale that is historically unprecedented; harnessing this data for insight on what customers want provides them with a competitive advantage. Traditional companies (Ford, Walmart, General Electric, etc.) today pride themselves as being transformed to big-data businesses. The field of Data Science has emerged to address the proliferation of data and the need to manage and understand it.

Data Science lies at the intersection of Computer Science and Statistics, and its solutions already serve a variety of application domains in science, engineering and business. While there is a plethora of M.S. offerings in Data Science, relatively few undergraduate Data Science programs are currently offered. A recent search for Data Science undergraduate degrees (http://datascience.community/colleges) indicates that such offerings are typically provided as (i) minors to existing B.S. programs (Computer Science, Math or Statistics), (ii) certificate programs, or (iii) programs with very specific focuses (Business Data Analytics or Computational Analytics being the most common ones). Within the UC system, currently there are three existing undergraduate Data Science degree programs offered at UC Irvine (2015), UC Berkeley (2018) and UC San Diego (2018). The proposed UCR Data Science undergraduate program has thus the potential to fill an important gap. Creating a new Data Science undergraduate degree will be instrumental in educating future data scientists by building knowledge bottom-up, covering both essential knowledge from Computer Science (in managing data) and Statistics (in analyzing data), and integrating this knowledge with applications to other domains and to real-life problems.

Data permeates all aspects of science, engineering, and other academic disciplines. Yet, a comprehensive program studying how data can be collected, transformed, analyzed, and used to solve problems across academic disciplines does not currently exist at UCR at the undergraduate level. Statistics and Computer Science degree programs discuss some aspects of this, but our proposed program provides an interdisciplinary view of how to employ data and the role of data across other academic disciplines. The rise of data science as a term reflects a new academic discipline, studying data itself. This program will educate students in these analyses, thought processes, and ways of viewing the world through a data lens.

Through its interdisciplinary nature, a Data Science undergraduate program offers a great opportunity to serve as a pathway for professional careers in various areas. The proposed program is different from existing programs in that its students will complete course sequences in other departments (e.g., economics, business, sociology, earth sciences, biology,

bioinformatics, and astronomy) where they will learn how Data Science principles are applied in these domains.

Fueled by the explosion of data, Data Science jobs have proliferated and the demand for data scientists is extremely high; moreover, this demand is expected to be strong for years to come. A recent McKinsey report forecasted a need for hundreds of thousands of data scientists in the next decade. Another study by IBM found more than 2.3 million data science and analytics job listings in 2015, and both job openings and job demand are projected to grow significantly. Three-fifths of the data science and analytics jobs are in the finance and insurance, professional services, and information technology sectors, but the manufacturing, health care, and retail sectors also are hiring significant numbers of data scientists. According to Glassdoor, a recruiting site, Data Scientist is the best job in the US (for the last three years in a row) with around 110K median base salary. We thus expect that the new program will be in high demand among students and will serve well the UCR community.

Furthermore, many application areas related to Data Science, such as astronomy, biology, and economics, historically have gender-balanced enrollment. Blending data science with these core applications will help bring these female populations into the broad domain of computing, thus enriching its diversity.

3. *Relationship of the new program to existing programs.*

The design of the proposed Data Science major was greatly inspired by two recent reports about creating undergraduate Data Science programs from (i) the National Academies of Sciences, Engineering and Medicine and (ii) the Park City Mathematics Institute, a NSF report endorsed by the Board of Directors of the American Statistical Association. Special effort was made to match the suggested guidelines from these reports. We were also influenced by two existing Data Science programs at UCI and University of San Francisco.

The proposed program is different in its requirements from the traditional Computer Science as well as the Statistics undergraduate degrees. For example, the Data Science program does not require upper division courses like CS150, CS152, CS153, CS161, CS120A, CS120B which are all core requirements for the CSE undergraduate major.

The Data Science program is also different from the Statistics undergraduate major. For example, the Data Science program does not require upper division courses like STAT157, STAT160A, STAT160B, and STAT160C, which are all core requirements for the Statistics undergraduate Bachelor of Science major. In addition to the core requirements, the technical and application electives of the Data Science program are also different from the traditional Computer Science and Statistics program, with a strong emphasis on data science applications in specific domain disciplines.

4. *The proposed curriculum. Great care should be given in this area, correct rubrics should be listed for courses, all cross listings should be listed, unit total considerations should be taken into account and totals should be verified by program staff, faculty, and appropriate Executive Committee personnel. A copy of the proposed program change should be provided for inclusion in the Catalog.*

Please see attached program description in Appendix A; the proposed catalog entry is in Appendix B.

5. *A list of faculty who will be involved in the program, including those teaching, advising, and administering.*

Below is the current list of faculty involved in the program (new faculty will be added as the program evolves):

Professors:

Xinping Cui, Statistics
Evangelos Hristidis, CSE
Daniel Jeske, Statistics
Eamonn Keogh, CSE
Stefano Lonardi, CSE
Christian Shelton, CSE
Vassilis Tsotras, CSE

Associate Professors:

James Flegal, Statistics
Jun Li, Statistics
Shujie Ma, Statistics
Weixin Yao, Statistics
Shuheng Zhou, Statistics

Assistant Professors:

Ahmed Eldawy, CSE
Esra Kurum, Statistics
Wenxiu Ma, Statistics
Amr Magdy, CSE
Vagelis Papalexakis, CSE

LPSOEs:

Mariam Salloum* (CSE)
Paea LePendu (CSE)
TBD* (Statistics)

Administration:

Daniel Jeske, Statistics
Vassilis Tsotras, CSE

* The CSE and Statistics Departments were recently awarded a $400K gift from the Technology Pathways Initiative for creating the new Data Science undergraduate program. A significant part of this gift will support the first year of two LPSOE/LSOE positions. CSE has already hired Dr. Salloum in one of these positions.

6. *For interdisciplinary programs, the degree of participation and the role of each department must be explicitly described. The chairs of all participating departments must provide written approval for the creation of the program and indicate their commitment to provide necessary resources including faculty release.*

The program will be administered through a joint steering committee. The steering committee will consist of three faculty from the Department of Computer Science and Engineering and three faculty from the Department of Statistics. The program director and the program co-director will be from different departments. The Director and co-Director are the coordinators of the program within their respective departments and colleges, and the Director has the added responsibility of coordinating and/or resolving campus-level issues. Normal terms for the Director and co-Director are 3 years and at the end of the 3-year term the co-Director is expected to accede to the Director position. If the Director (or co-Director) is unable to complete their 3-year term, a faculty from the same department will be chosen to assume the duties until the end of that 3-year term.

Directors and co-Directors will be filled through a nomination process that starts with the joint steering committee nominating names for the two positions to the Deans of the two colleges. The Deans will review the names and when they approve they will forward the names as nominees to the Provost/EVC for final approval. The same process will be used if and when the need arises to name an acting co-Director.

Circumstances may intervene that call for consecutive terms of a Director or a co-Director, or consecutive Directors or co-Directors from within the same department. These situations will be recognized, agreed upon, and handled by the joint steering committee, the two Deans, and the EVC/Provost on a case-by-case basis.

Director and co-Director stipend costs will be set by mutual agreement of the Deans of the two colleges, and they will split these costs 50:50.

Proposed changes to the program will need to be approved by the majority of the steering committee (including Director and co-Director). In the case of a tied vote, the Director makes the final decision. The proposed program change will then be reviewed by each college executive committee and then the committee on education policy. If these committees consider the change to be noncontroversial, the proposed change is placed on the Consent Calendar for a meeting of the Division of the Academic Senate.

Each department will be responsible for offering at least once per year any of the program's core courses taught by that department. The two departments will also cooperate in providing materials needed for any appropriate accreditation process (e.g., ABET or WASC.)

Each year the Director and co-Director will issue an annual report to the two Deans that describes the state of the program. Based on the report, the two Deans can agree to initiate procedures for having one college assume full control of the program, creating two parallel programs, or mutually agreeing to retire the program upon the graduation of the last enrolled student.

As with other intercollege majors (e.g., Neuroscience Undergraduate Major), when students declare the new major, they choose from which college they wish to have their B.Sc. degree awarded. Students whose degrees are awarded by the Bourns College of Engineering are advised in and have their records maintained by the Department of Computer Science and Engineering; students whose degrees are awarded by the College of Natural and Agricultural Sciences are advised in and have their records maintained by the CNAS Academic Advising Center. Students must fulfill the breadth requirements of the college they choose.

7. *Projected enrollment in the program.*

   The projected enrollment at the start of the program is 25-30 students; we expect a class of 50 students at steady state.

8. *Name of degree, if applicable, and the anticipated number of degrees to be granted when the program reaches steady state.*

   BS in Data Science, 40-50 degrees awarded per year

9. *Potential impact of the new program on existing programs. If the proposed program includes required courses from a department other than the administering department, the proposal must include a statement from the department indicating that it has been consulted and that it will provide access to the required courses.*

   The new major uses six existing lower division courses offered by the Department of Mathematics (namely: MATH009A, MATH009B, MATH009C, MATH010A, MATH011/CS011, MATH031). All these courses are currently being used by CSE and/or Statistics for satisfying college/major requirements in the BS degrees offered currently by the CSE and Statistics departments. Given that these courses are also been used by many other departments to satisfy college requirements, we do not expect a major impact in their offerings by the new program.

   The design of the new major led to the creation of four new upper division courses (namely: CS105, CS167, STAT156A, STAT156B). These courses have being approved by their respective departments and serve as electives in the BS programs offered by the CSE and Statistics departments. All other upper division courses required for the new major are currently being taught in the CSE and Statistics Departments.

   Moreover, the new major requires that students take four electives (organized in two-course sequences) in departments outside CSE and Statistics. These sequences are created from courses that are currently taught in their home departments (e.g., ECE, Business, Economics; more such sequences will be added in the future). As the major's students will have various options for their electives, the expected impact on those courses would be minimal. The chairs of the involved departments have been consulted and have agreed to provide access to the required course sequences (see attached letters).

   See attached letters of support from Math (Chair) and chairs of the application sequences Depts in Appendix C.

10. *A full listing of resources required for start-up and for operations. In cases where no additional resources will be needed, this must be explicitly stated. This listing may include: personnel (faculty FTE or temporary positions, Teaching Assistants or Readers, administrative staff, technical support); support services including computer facilities and library resources; space requirements. A plan indicating how the resources will be obtained would also be helpful to the committee in reviewing the proposal. A letter of support from the College Dean and/or Executive Vice Chancellor-Provost indicating endorsement as well as a promise of support for the proposal also would be extremely helpful.*

- Faculty FTE: the program will use existing faculty from the two departments as well as two new LSOE positions (one per department). The LSOE for CSE has already been hired (Mariam Salloum) while the LSOE position for Statistics has been approved. These two new LSOEs are partially supported by a recent gift (400K) from the Technology Pathways Initiative for creating the new Data Science undergraduate program.
- Teaching Assistants: at steady state we will have 50 students per year; this corresponds to about 1.5 additional lab/discussion sections (assuming a section is about 30-35 students). Students will take 4 courses per quarter, resulting in about 6 lab/discussion sections. Assuming a TA handles 2-3 sections, we estimate that the new program will need 2-3 TA positions per quarter. Such cost however will be easily covered by the tuition fees of the new students.
- Administrative Staff: the program will be administered by existing staff in the two home departments. BCOE students enrolled in the Data Science program through the CSE Department will be advised by BCOE's Office of Undergraduate Student Academic Affairs (OSAA). OSAA currently has eight full time advisors that will initially accommodate the Data Science students. The BCOE college is actively working on hiring three additional advisors that we be available to reduce the load as program grows. CNAS students enrolled in the Data Science program through the Department of Statistics will be advised by CNAS's Undergraduate Academic Advising Center (UAAC). The UAAC MPS (Math and Physical Sciences) advising unit currently has 1 full time advisor that will initially accommodate Data Science students. CNAS is actively working on hiring one additional MPS advisor that will be available to reduce the load as program grows.
- Computer facilities and library resources: no new facilities required
- Space requirements: no new space requirements.

11. *Both internal and external letters of support should be provided with the proposal. Internal letters of support are often from UCR department chairs and faculty of related programs. The external letters should be from other UC campuses or other peer institutions. Letters from off-campus help to establish the quality of the program and its fit within the context of related programs at other universities. Upon consultation with the CEP the demand for external letters may be waived.*

See Appendix D for letters of support from:
Dr. Walid Najjar, Chair, Department of Computer Science and Engineering
Dr. Xinping Cui, Department of Statistics.
Dr. Chris Lynch, Dean (BCOE)

Dr. Kathryn Uhrich, Dean (CNAS)

12. *Approvals from program faculty, College faculty (if the new proposal affects a college regulation), and the appropriate Executive Committee should be obtained before forwarding the new program to the attention of the Senate Analyst for CEP.*

Approved by Department of Computer Science and Engineering on 12/11/2018

Approved by Department of Statistics on 6/1/2018

Approved by BCOE Executive Committee on 2/28/2019

Approved by CNAS Executive Committee on 1/15/2019

Appendix A:

Draft of the new Data Science Undergraduate Program

Draft of the new Data Science Undergraduate Program

Program Design Committee members:
Daniel Jeske (Stat), Wenxiu Ma (Stat), Vagelis Papalexakis (CSE), Christian Shelton (CSE), Vassilis Tsotras (CSE), Shuheng Zhou (Stat)

Example Four Year Schedule

Year 1	Fall	Winter	Spring
	MATH 9A	MATH 9B	MATH 9C
	CS 10	CS 12	CS 14
	ENGL 1A	ENGL 1B	
	H/SS 1	H/SS 2	Phy_Sci
Year 2	**Fall**	**Winter**	**Spring**
	MATH 31	MATH 10A	CS 111
	CS 100	MATH 11 / CS 11	CS 105
	STAT 100A or equivalent	STAT 100B or equivalent	
	Bio_Sci	Sci 1	Sci 2
Year 3	**Fall**	**Winter**	**Spring**
	STAT 156A	STAT 156B	STAT 167 / CS 171
	CS 166 / CS 167	CS 141	
	STAT 147	ENGR 170/PBPL 170	[TECH ELECTIVE]
	H/SS 3	H/SS 4	H/SS 5
Year 4	**Fall**	**Winter**	**Spring**
	STAT 170A	STAT 170B	STAT 183 / CS 179
	ENGL 1C/ENGR 180		
	[APP 1]	[APP 2]	
	[TECH ELECTIVE]	[TECH ELECTIVE]	[TECH ELECTIVE]

Comments:

Four new courses, CS105, CS167, STAT156A, STAT156B

Course Descriptions:

CS 010 Introduction to Computer Science for Science, Mathematics, and Engineering I (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): a college mathematics course (may be taken concurrently) or credit for MATH 009A from the Advanced Placement Examination or the Mathematics Advisory Examination. Covers problem solving through structured programming of algorithms on computers using the C++ object-oriented language. Includes variables, expressions, input/output (I/O), branches, loops, functions, parameters, arrays, strings, file I/O, and classes. Also covers software design, testing, and debugging. Credit is not awarded for CS 010 if it has already been awarded for CS 010V or CS 030.

CS 012 Introduction to Computer Science for Science, Mathematics, and Engineering II (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 010 or CS 010V with a grade of "C" or better; familiarity with C or C++ language. Covers structured and object-oriented programming in C++. Emphasizes good programming principles and development of substantial programs. Topics include recursion, pointers, linked lists, abstract data types, and libraries. Also covers software engineering principles. Credit is awarded for only one of CS 012 or CS 012V or CS 013.

CS 014 Introduction to Data Structures and Algorithms (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 012 or CS 012V with a grade of "C" or better or CS 013 with a grade of "C" or better; proficiency in C++. Topics include basic data structures such as arrays, lists, stacks, and queues. Covers dictionaries (including binary search trees and hashing) and priority queues (heaps). Offers an introductory analysis of algorithms, sorting algorithms, and object-oriented programming including abstract data types, inheritance, and polymorphism. Explores solving complex problems through structured software development.

CS 100 Software Construction (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 014 with a grade of "C-" or better. Emphasizes development of software systems. Topics include design and implementation strategies; selection and mastery of programming languages, environment tools, and development processes. Develops skill in programming, testing, debugging, performance evaluation, component integration, maintenance, and documentation. Covers professional and ethical responsibilities and the need to stay current with technology.

CS 105 Data Analysis Tools (4) -- *new course* -- Lecture, 3 hours; laboratory, 3 hours. Prerequisites(s): CS 14. Introduction to data analysis tools including data statistics, simple data storage types, data acquisition from the web and public APIs, data cleaning, crowdsourcing for

data collection and cleaning, supervised and unsupervised learning techniques, and data visualization. The laboratory will also include hands-on exercises on the aforementioned topics in Python and MATLAB.

CS 111 Discrete Structures (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 010 or CS 010V; CS 011/MATH 011; MATH 009C (or MATH 09HC). A study of discrete mathematical structures emphasizing applications to computer science. Topics include asymptotic notation, generating functions, recurrence equations, elements of graph theory, trees, algebraic structures, and number theory.

CS 141 Intermediate Data Structures and Algorithms (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 014 with a grade of "C-" or better; CS 111; MATH 009C or MATH 09HC; proficiency in C++. Explores basic algorithm analysis using asymptotic notations, summation and recurrence relations, and algorithms and data structures for discrete structures including trees, strings, and graphs. Also covers general algorithm design techniques including "divide-and-conquer," the greedy method, and dynamic programming. Integrates knowledge of data structures, algorithms, and programming.

CS 166 Database Management Systems (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 100, CS 111. Covers architecture of database management systems; relational, network, and hierarchical models; distributed database concepts; query languages; implementation issues; and privacy and security of the database.

CS 167 Introduction to Big Data Management (4) -- *new course*-- Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 100, CS111. Introduces the design of big-data systems and their application in data management and processing. Describes the common functionality in big-data processing such as distributed storage, resource management, query processing, fault-tolerance, and APIs. Covers the popular big-data technologies such as MapReduce, key-value stores, and semi-structured data management.

CS 171 Introduction to Machine Learning and Data Mining (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 100, CS 111. Introduces formalisms and methods in data mining and machine learning. Topics include data representation, supervised learning, and classification. Covers regression and clustering. Also covers rule learning, function approximation, and margin-based methods.

CS 179 (E-Z) Project in Computer Science (4) For hours and prerequisites, see segment descriptions. Under the direction of a faculty member, student teams propose, design, build, test, and document software and/or hardware devices or systems. Emphasizes professional and ethical responsibilities and the need to stay current on technology and its global impact on economics, society, and the environment.

MATH 009A First-Year Calculus (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 005 with a grade of "C-" or better or MATH 006B with a grade of "C-" or better or equivalent. Introduction to the differential calculus of functions of one variable. Credit is awarded for only one of MATH 008B, MATH 009A, or MATH 09HA.

MATH 009B First-Year Calculus (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 008B with a grade of "C-" or better or MATH 009A with a grade of "C-" or better or MATH 09HA with a grade of "C-" or better. Introduction to the integral calculus of functions of one variable. Credit is awarded for only one of MATH 009B or MATH 09HB.

MATH 009C First-Year Calculus (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 009B with a grade of "C-" or better or MATH 09HB with a grade of "C-" or better. Further topics from integral calculus, improper integrals, infinite series, Taylor's series, and Taylor's theorem. Credit is awarded for only one of MATH 009C or MATH 09HC.

MATH 010A Calculus of Several Variables (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 009B with a grade of "C-" or better or MATH 09HB with a "C-" or better or equivalent. Topics include Euclidean geometry, matrices and linear functions, determinants, partial derivatives, directional derivatives, Jacobians, gradients, chain rule, and Taylor's theorem for several variables.

MATH 011 Introduction to Discrete Structures (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 009A (or MATH 09HA); CS 010 or CS 010V or MATH 009B (or MATH 09HB). Introduction to basic concepts of discrete mathematics emphasizing applications to computer science. Topics include prepositional and predicate calculi, elementary set theory, functions, relations, proof techniques, elements of number theory, enumeration, and discrete probability. **Cross-listed with CS 011**.

MATH 031 Applied Linear Algebra (5) Lecture, 3 hours; discussion, 2 hours. Prerequisite(s): MATH 009A (or MATH 09HA) with a grade "C-" or better and CS 010 or CS 010V or MATH 009B (or MATH 09HB) with a grade of "C-" or better. A study of matrices and systems of linear equations, determinants, Gaussian elimination, vector spaces, linear independence and linear transformation, orthogonality, eigenvalues, and eigenvectors. Also examines selected topics and applications.

STAT 100A Introduction to Statistics (5) Lecture, 3 hours; discussion, 1 hour; laboratory, 3 hours. Prerequisite(s): MATH 005 or MATH 006B or MATH 009A or MATH 09HA or equivalent. A general introduction to descriptive and inferential statistics. Topics include histograms; descriptive statistics; probability; normal, binomial, and Poisson distributions; sampling distributions; hypothesis testing; and confidence intervals. Credit is awarded for only one of STAT 048 or STAT 100A.

STAT 100B Introduction to Statistics (5) Lecture, 3 hours; discussion, 1 hour; laboratory, 3 hours. Prerequisite(s): STAT 100A "An introduction to statistics" with a grade of C- or better. Topics include linear regression, correlation, analysis of variance, and simple experimental designs.

STAT 147 Introduction to Statistical Computing (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 100A or equivalent. Introduction to computer-assisted data analysis and statistical inference using both the R and SAS packages. Topics include input, output, and editing of data; graphical procedures; descriptive statistics; cross-tabulation; inferential statistical techniques including estimation and testing; and analysis of variance.

STAT 156A Mathematical Statistics with Applications for Data Science I (4) -- *new course*-- Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 009C or consent of instructor. Introduction to frequentist probability concepts, random variables, and their distributions. Discussion of key theorems and inequalities in probability theory. Introduction to frequentist methods of point and interval estimation.

STAT 156B Mathematical Statistics with Applications for Data Science II (4) -- *new course*-- Lecture, 3 hours; discussion, 1 hours. Prerequisite(s): STAT 156A or consent of instructor. Introduction to Bayesian probability concepts, illustrative application of Frequentist theory to linear regression, logistic regression and ANOVA, analysis of contingency tables, applications of sequential statistics, methods for observational studies and for missing data analyses.

STAT 167 Introduction to Data Science (4) Lecture, 3 hours; discussion, 1 hours. Prerequisite(s): STAT 100B or STAT 155, with a grade of C- or better, or equivalents; STAT 147, with a grade of C- or better. Introduction to data science using the R programming language. Topics include big data management, visualization and analytical skills, unsupervised and supervised statistical learning methods, and real-world data science application examples.

STAT 170A Regression Analysis (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 157, STAT 160C, or equivalents. Topics include simple and multiple linear regression, scatter-plots, and point and interval estimation. Addresses prediction, testing, calibration, interpretation, and practical applications of multiple regression. Explores simple, partial, and multiple correlation; variable selection methods; diagnostic procedures; and regression for longitudinal data.

STAT 170B Design of Experiments (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 170A with a grade of "C-" or better. Topics include principles of design; completely randomized designs; and one-way analysis of variance. Covers complete block designs and two-way analysis of variance; multiple comparisons; and complete factorial experiments. Explores fixed, random, and mixed models; split-plot designs; nested designs; analysis of covariance; sample size determination; and power analysis.

STAT 183 Statistical Consulting (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 170B; STAT 171, may be taken concurrently; Restricted to class level standing of senior. Introduces the statistical consulting process. Promotes consulting skills including developing effective communication skills, applying statistical methodology to client projects, and learning how to manage time and resources in a consulting environment. Satisfactory (S) or No Credit (NC) grading is not available.

ENGR 170 Technology, Policy, and Ethics (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): upper-division standing. Provides contemporary perspectives on interplays between technology, public policy, and ethics. Covers social, legal, and ethical issues such as liability, as well as environmental, patent, and copyright law. Cross-listed with PBPL 170.

TECHNICAL ELECTIVES

MATH 120 Optimization (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): MATH 010A with a grade of "C-" or better; MATH 031 with a grade of "C-" or better. Introduction to classical optimization including unconstrained and constrained problems in several variables, Addresses Jacobian and Lagrangian methods and the Kuhn-Tucker conditions. Covers the basic concepts of linear programming including the simplex method and duality with applications to other subjects.

MATH 135A Numerical Analysis (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 010 or CS 010V or equivalent with a grade of "C-" or better; MATH 031 with a grade of "C-" or better (may be taken concurrently). A study of numerical methods for determining solutions to nonlinear equations and simultaneous linear equations. Topics also include interpolation, techniques of error analysis, and computer applications.

CS 170 Introduction to Artificial Intelligence (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 100 with a grade of "C-" or better, CS 111. An introduction to the field of artificial intelligence. Focuses on discrete-valued problems. Covers heuristic search, problem representation, and classical planning. Also covers constraint satisfaction and logical inference.

CS 172 Introduction to Information Retrieval (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 100; CS 111; EE 114 or STAT 155. Introduces information retrieval (IR) principles and techniques for indexing and searching document collections. Topics include Web search, text processing, ranking algorithms, search in social networks, and search evaluation. Also studies scalability issues in search engines. Satisfactory (S) or No Credit (NC) grading is not available.

CS 180 Introduction to Software Engineering (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 100. A study of software engineering techniques for the development,

maintenance, and evolution of large software systems. Topics include requirements and specification; system design and implementation; debugging, testing, and quality assurance; reengineering; project management; software process; tools; and environments.

CS 181 Principles of Programming Languages (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 061, CS 100, CS 111, CS 150. Covers the principles of programming language design. Includes the study and comparison of several programming languages, their features, and their implementations.

STAT 104 Decision Analysis and Management Science (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 008 or equivalent; STAT 048 or STAT 100A or equivalent; upper-division standing. A survey of deterministic and probabilistic models for decision making. Topics include linear programming and extensions, networks, dynamic programming, decision trees, queuing models, and simulation. Explores the application of these models in decision making. Emphasizes use of the computer. Cross-listed with BUS 104.

STAT 127 Introduction to Quality Improvements (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 048 or STAT 100A or consent of instructor. Explores Deming's 14 points for management, graphical methods, fishbone diagram, Pareto analysis, control charts for attributes and variables, cusum and moving average charts, process-capability, economic design, acceptance sampling, Taguchi method, parameter design, tolerance design, reliability, hazard rate, censoring, and accelerated life testing. Cross-listed with BUS 127.

STAT 130 Sampling Surveys (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 100B, or equivalent. Covers simple random sampling, addresses stratified sampling, cluster sampling, and ratio and regression estimates. Explores random response, capture-recapture, and jack-knife techniques.

STAT 140 Nonparametric Techniques (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 100B or equivalent. Covers randomization tests, rank tests, methods of association, and distribution-free tests.

STAT 146 Statistical Forecasting Techniques (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 100B or equivalent. Topics include exponential smoothing, simple and multiple regression analysis, time series, trend analysis, and seasonal analysis

STAT 157 Statistical Computer Packages (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 100B with a grade of C- or better, or equivalents; STAT 147 with a grade of C- or better; or consent of instructor. A study of major statistical packages including SAS with the emphasizing advanced SAS programming. Topics include advanced graphical procedures, linear models (regression and analysis of variance), multivariate techniques, and SAS macros.

STAT 171 General Statistical Models (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): STAT 170B. Generalized linear models and least squares. Analysis of covariance, nonlinear regression, nonlinear least squares. Regression methods for discrete data: loglinear models, logistic regression, discriminant analysis. Regression methods for life data. Cox survival model, Kaplan-Meier estimation, Mantel-Haenszel test.

APPLICATION COURSE SEQUENCES

Economics: {ECON 108, ECON 136}

Business: {BUS 104, BUS 123}, {BUS 124, BUS 125}, {BUS 103, BUS 115}.

Earth Sciences: {GEO 111, GEO 161}, {GEO 115, GEO 147}

Electrical and Computer Engineering: {EE142, EE146}

Biology/Bioinformatics: {BIO 5A, BIO 20}

BIOL 005A Introduction to Cell and Molecular Biology (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): BIOL 05LA (may be taken concurrently) or BIOL 020 (may be taken concurrently) with grades of "C-" or better; CHEM 001A and CHEM 01LA with grades of "C-" or better or CHEM 01HA and CHEM 1HLA with grades of "C-" or better; consent of instructor is required for students repeating the course. An intensive course designed to prepare for upper-division courses in cell and molecular biology. Covers biochemical, structural, metabolic, and genetic aspects of cells. Required for Biology majors; recommended for science majors desiring an introduction to biology.

BIOL 020 Dynamic Genome (2) F Laboratory, 6 hours. Prerequisite(s): CHEM 001A or CHEM 01HA, MATH 008B or MATH 009A (MATH 009A may be taken concurrently); freshman standing. Introduces computational and experimental approaches in investigating the genomes of plants and animals. Explores scientific discovery using the tools of bioinformatics and genomics. Includes participation in research projects being conducted on campus. Credit is not awarded for BIOL 020 if it has already been awarded for BIOL 05LA.

BUS 104 Decision Analysis and Management Science (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): CS 008 or equivalent; STAT 048 or STAT 100A or equivalent; upper-division standing. A survey of deterministic and probabilistic models for decision making. Topics include linear programming and extensions, networks, dynamic programming, decision trees, queuing models, and simulation. Explores the application of these models in decision making. Emphasizes use of the computer. Cross-listed with STAT 104.

BUS 123 Spreadsheet Modeling for Decision-Making (4) Lecture, 3 hours; written work, 3 hours. Prerequisite(s): BUS 104/STAT 104 or consent of instructor. Introduces the fundamental techniques of using data to make informed management decisions in the presence of uncertainty of advanced Microsoft Excel functionality. Uses spreadsheet modeling for decision analysis and optimization applications. Enhances and reinforces analytical skills and the ability to intelligently use information for making decisions under uncertainty.

BUS 124 Business Analytics (4) Lecture, 3 hours; term paper, 1 hour; written work, 2 hours. Prerequisite(s): STAT 048 or consent of instructor. Provides fundamental concepts and tools needed to understand the emerging role of business analytics in organizations. Applies basic business analytics tools in a spreadsheet environment. Introduces market-leading techniques that help identify and manage key data from business processes. Provides the essential tools required for data mining and business process re-engineering.

BUS 125 Simulation for Business (4) Lecture, 3 hours; extra reading, 1.5 hours; outside projects, 1.5 hours. Prerequisite(s): BUS 104/STAT 104, STAT 048, or equivalents. Introduces simulation as a tool for analyzing complex systems. Analyzes and discusses the theory and practice of modeling through simulation. Topics include modeling uncertainty and collecting input data, Monte Carlo simulation techniques, model verification and validation, and sensitivity analysis. Examines applications in finance, marketing, operations, and supply chain management.

BUS 103 Marketing and Distribution Management (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): upper-division standing or consent of instructor. An introduction to the role of marketing in society with emphasis on concepts, marketing methods, and institutions.

BUS 115 Marketing Research (4) Lecture, 3 hours; outside research, 3 hours. Prerequisite(s): BUS 103. Covers types and sources of marketing information, the marketing research process, and techniques of data collection and analysis, including consumer and customer surveys and test marketing. Examines both quantitative and qualitative research with analysis of the values and limitations of data. Emphasis is placed on evaluation and interpretation of results.

ECON 108 Introductory Econometrics (5) Lecture, 3 hours; discussion, 1 hour; laboratory, 1 hour; written work, 1 hour; outside research, 1 hour. Prerequisite(s): ECON 107 or consent of instructor. A continuation of ECON 107. Covers, at an introductory level, the basic concepts related to logit and probit models, simultaneous equations models, dynamic time series models, unit roots and auto-regressive conditional heteroskedasticity (ARCH), and forecasting.

ECON 136 Empirical Financial Economics (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 107 or consent of instructor. Discusses various empirical aspects of financial economics and financial risk management. Addresses both theoretical and applied issues in finance, risk management, and econometrics. Also discusses quantitative analysis, simulation methods, and case studies.

EE 142 Pattern Recognition and Analysis of Sensor Data (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): EE 114 or STAT 155 or consent of the instructor. Introduction to pattern recognition for multi-dimensional, multi-modal sensor data such as images, videos, and smart grids. Classification and decision functions, feature extraction, regression, and neural networks. Clustering and dimensionality reduction for unsupervised learning. Dynamic models and tracking. Applications of pattern recognition in computer vision, robotics, smart grids, etc.

EE 146 Computer Vision (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): senior standing in Computer Science or Electrical Engineering, or consent of instructor. Imaging formation, early vision processing, boundary detection, region growing, two-dimensional and three-dimensional object representation and recognition techniques. Experiments for each topic are carried out.

GEO 111 Numerical Skills in Geoscience (4) Lecture, 3 hours; laboratory, 3 hours; term paper, 1 hour;. Prerequisite(s): MATH 009C. An introduction to computer programming and numerical modelling. The class will teach the basic principles of how computer programs are written and numerical models constructed, and provide data processing and visualization skills. The class will hence foster an ability to apply numerical techniques to problems in Earth and Environmental Sciences.

GEO 161 Cenozoic Climate Change (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): one of the following courses with a grade of "C-" or better; GEO 001 or GEO 002 or GEO 009 or GEO 011. Examines physical, chemical, and biological evidence of climatic and environmental change throughout the Cenozoic Era (last 65 million years) to provide a framework for understanding natural environmental change and for predicting future change. Introduces students to computer-based numerical methods of data analysis for interpreting past records of environmental change.

GEO 115 Geologic Maps and Landforms (5) Lecture, 2 hours; laboratory, 6 hours; field, 30 hours per quarter. Prerequisite(s): GEO 001 (may be taken concurrently); MATH 004 or MATH 005, or MATH 008A. Examines characteristic patterns of bedrock outcrops, surficial deposits, the related landforms, and their representation on maps. Covers unconformities, folds, faults, intrusions, alluvial fans, river terraces, and landforms indicative of glaciers, volcanoes, landslides, and earthquakes. Applies map information to resource and hazard evaluation.

GEO 147 Active Tectonics and Remote Sensing (4) Lecture, 2 hours; discussion, 1 hour; laboratory, 3 hours. Prerequisite(s): GEO 001, GEO 115; or consent of instructor. A computer-based course that introduces active tectonics and the earthquake cycle and how they are studied using remote sensing data. Explores examples of actively deforming areas from around the world using computer visualization software and freely available data sources (satellite imagery, digital topography, GPS and earthquake data).

Appendix B:

Proposed catalog entry for the Data Science Undergraduate Program

Data Science Undergraduate Major (Catalog entry)

Major

Data science studies the collection, management, and analysis of data to extract knowledge. It is a multidisciplinary program with core components from Computer Science and Statistics, and required application study in a variety of empirical disciplines. Courses span the discipline from theory to practice and prepare students for careers or graduate studies in data-intensive fields.

The B.S. in Data Science major is an intercollege major offered by the Bourns College of Engineering and the College of Natural and Agricultural Sciences. A B.S. degree in Data Science is offered by each college. When students declare the major, they choose from which college they wish to have their degree awarded. Students whose degrees are awarded by the Bourns College of Engineering are advised in and have their records maintained by the BCOE Office of Student Academic Affairs; students whose degrees are awarded by the College of Natural and Agricultural Sciences are advised in and have their records maintained by the CNAS Undergraduate Academic Advising Center. Breadth requirements vary by college; and students must fulfill the breadth requirements of the college they choose.

All undergraduates in the Bourns College of Engineering must see an advisor at least annually. Visit student.engr.ucr.edu for details.

University Requirements

See Undergraduate Students section.

College Requirements

College breadth requirements vary depending on which college is chosen to award the degree. For details on breath requirements, see the Colleges and Programs section of this catalog. Students are encouraged to consult their advisor regarding requirements.

Major Requirements

1. Lower-division requirements (37 units):
   a) CS 010; CS 012; CS 014
   b) MATH 009A; MATH 009B; MATH 009C; MATH 010A; MATH 031
   c) MATH 011/CS 011
2. Upper-division requirements (76 units, minimum):
   a) CS 100; CS 105; CS 111; CS 141
   b) STAT 147; STAT 156A; STAT 156B; STAT 170A; STAT 170B
   c) ENGR 170 or PBPL 170

d) CS 166 or CS 167

e) STAT 167 or CS 171

f) STAT 183 or CS 179 (E-Z)

g) Four courses (at least 16 units) from the following list, none of which can also be used to satisfy other major requirements:
CS 166; CS 167; CS 170; CS 172; CS 180; CS 181; MATH 120; MATH 135A; STAT 104; STAT 127; STAT 130; STAT 140; STAT 146; STAT 157; STAT 171.

h) One two-course sequence, chosen from the course sequences listed below:
  i.   BIO 5A and BIO 20
  ii.   BUS 103 and BUS 115
  iii. BUS 104 and BUS 123
  iv.   BUS 124 and BUS 125
  v.   ECON 108 and ECON 136
  vi.   EE 142 and EE 146
  vii. GEO 111 and GEO 161
  viii. GEO 115 and GEO 147

Note An introductory Statistics class, such as STAT 100A and STAT 100B, is strongly recommended.

Appendix C:

Letters of support/collaboration from other Departments (Mathematics, Earth Sciences, Economics, EEOB, Electrical and Computer Engineering)

DATE:	October 18, 2018
TO:	Dr. Vassilis Tsotras, Department Chair Department of Computer Science
FROM:	Dr. Yat Sun Poon, Department Chair Department of Mathematics
RE:	B.S. in Data Science proposal

Dear Vassilis,

I am glad to hear that a BS degree in data science is being brought to UCR through a joint effort between the Statistics and Computer Science departments. I believe many students will find it appealing. I cannot see any potential problems with your plans.

Subject:	Earth Sciences courses for the new Data Science undergraduate program
Date:	Fri, 14 Dec 2018 15:52:33 -0800
From:	David Oglesby <doglesby@ucr.edu>
To:	Vassilis Tsotras <tsotras@cs.ucr.edu>

Dear Vassilis:

I am in support of the Data Science undergraduate program between the Earth Sciences and Statistics Departments. As we discussed, I am in favor of adding the following Earth Sciences two-course sequences as electives available to the undergraduate students in the Data Science program:

GEO 111 and GEO 161
GEO 115 and GEO 147

Even though GEO 115 requires MATH 004 or MATH 005, or MATH 008A, the Data Science students would already have appropriate MATH core courses (e.g. MATH 9A-9C) so they would be allowed to take GEO115.

Sincerely,
David

David D. Oglesby
Professor of Geophysics
Chair, Department of Earth Sciences
University of California, Riverside
Riverside, CA 92521-0423
PH: (951) 827-2036
FAX: (951) 827-4324
david.oglesby@ucr.edu

From: **Steven M Helfand** <steven.helfand@ucr.edu>
Date: Mon, Nov 26, 2018 at 5:32 PM
Subject: Data Science Majors
To: Daniel R Jeske <daniel.jeske@ucr.edu>
Cc: Gloria Gonzalez-Rivera <ggonzale@ucr.edu>, Anthony L Gonzalez
<anthony.gonzalez@ucr.edu>, Bradley Troy Scalf <bradley.scalf@ucr.edu>

Dean Dan,

I write to affirm that the Economics Department will accept STAT 170A as a suitable
prerequisite for Econ 108 and Econ 136. This will permit the Data Science majors to take these
classes without taking Econ 107 first. Academically, we see no difficulty with this substitution.

Understanding that the data science program is just beginning and that data science students
will likely not be taking Econ 108 or 136 until their third year in the program, we would like to
move forward with this agreement for a trial period of five years, starting in 2019-20. We wish to
do this as a five year experiment because we are concerned about the size of the classes, and
Econ 108 in particular. Currently we plan to offer Econ 108 once per year, with a maximum size
of 35. This is the size of the lab, and all that we can handle with one TA who teaches the
sections and lab. If it were to grow beyond 35 students, we would need to hire a second TA,
and we don't currently have funding to do this. At its current size, we expect that there would be
5-10 seats each year for non-econ majors.

Sincerely,

Steven

___

Steven Helfand
Chair, Department of Economics
University of California
Riverside, CA 92521-0427
Office: (951) 827-1470
steven.helfand@ucr.edu
http://economics.ucr.edu/people/faculty/helfand/

___

DEPARTMENT OF EVOLUTION, ECOLOGY, AND
ORGANISMAL BIOLOGY
RIVERSIDE, CALIFORNIA 92521 USA
VOICE: (951) 827-5903
FAX: (951) 827-4286

November 27, 2018
Professor Helen Regan
Chair
Department of Evolution, Ecology, and
Organismal Biology

Prof. Vassilis Tsotras
Director, Data Science Center at UCR

Dear Tsotras:

The Department of Evolution, Ecology, and Organismal Biology supports initiation of the
Data Science undergraduate program at UCR. We are in favor of adding two Biology
courses to be taken as electives by the undergraduate students in the Data Science
program. The following two Biology courses are most relevant to the Data Science
undergraduate program:

BIOL 005A – Introduction to Cell and Molecular Biology
BIOL 020 – Dynamic Genome

Both courses are offered every quarter, often more than once per quarter, and students
from CSE and Statistics should be able to take them provided the prerequisites are
satisfied.

Sincerely,

Helen Regan,
Professor and Chair
Department of Evolution, Ecology, and Organismal Biology at UCR

April 22, 2018

Prof. Vassilis Tsotras
Director, Data Science Center at UCR

Dear Vassilis:

I strongly support initiation of the Data Science undergraduate program at UCR. I am also very much in favor of adding two ECE-based courses to be taken as electives by the undergraduate students in the Data Science program. The following two ECE courses are most relevant to the Data Science undergraduate program:

EE142 - Pattern Recognition and Analysis of Sensor Data
EE146 - Computer Vision

Both courses also allow EE prerequisites to be waived by consent of instructor, and students from CSE and Statistics should be able to take them.

Sincerely,

Ilya Dumer,
Professor and Chair
Department of Electrical and Computer Engineering at UCR

Appendix D:

Letters of support from the chairs of CSE and Statistics and the BCOE and CNAS Deans.

Walid A. Najjar
Professor and Chair
Department of Computer Science and Engineering
351 Winston Chung Hall   Riverside, CA 92521
Tel 951.827.5639   Fax 951.827.4643
najjar@cs.ucr.edu   www.cs.ucr.edu/~najjar

December 28, 2018

To Whom It May Concern:

This letter is in strong support for the proposed undergraduate program in Data Science at UCR, to be jointly offered by the Departments of Computer Science & Engineering and Statistics.

Data Science has grown out of the need to integrate computational and statistical approaches to processing and interpreting data. Tools originating from data science are now becoming indispensable in today's science, technology, and business, fueling the demand for data scientists. Recognizing this need, our department has taken the initiative to develop research and educational programs in Data Science at UCR. In collaboration with other departments on campus, an online MS program in Data Science is already being offered. Recently the Data Science Center has been established that includes multiple newly hired faculty members, and has been given designated space in the new MRB building. Creating an undergraduate program in Data Science is the next step in this endeavor. This program will address critical and documented shortage of college graduates trained in Data Science, in industry, government, and academia.

The CSE Department enthusiastically supports the creation of the Data Science program and is fully committed to providing necessary resources within its capabilities for the instruction and advising of its students. As Data Science is at the intersection of Statistics and Computer Science, we look forward to collaborate with the Statistics department to establish the new undergraduate Data Science program at UCR.

Walid A. Najjar

Professor and Chair
Department of Computer Science and Engineering
Bourns College of Engineering
University of California Riverside

College of Natural and Agricultural Sciences
Department of Statistics
900 University Avenue
Riverside, CA 92521

November 14, 2018

Dear Committee Members:

On behalf of the UCR Department of Statistics, I am writing in strong support for the proposed inter-departmental undergraduate program in Data Science at UCR.

Data Science is experiencing a rapid and unplanned growth. The website http://datascience.community/colleges currently lists 530 programs in Data Science, analytics and related fields at over 200 universities around the world. The vast majority of these are master's degrees and certificates programs offered both traditionally and online. There has been rapid growth of undergraduate programs at both research institutions and liberal arts colleges. It is expected this number to increase significantly in the near future.

Recognizing this need, our department has taken steps to develop research and educational programs in Data Science at UCR including the new undergraduate course "Introduction to Data Science" that has been taught for the past two years and the new graduate courses " Statistical Computing" and "Statistical Data Mining Methods" that have been taught for both Statistics graduate program and MS online program in Data Science at UCR.

Data Science program at the undergraduate level provides a synergistic approach to real world problem solving, one that leverages the content in Statistics, Computer Science and Mathematics but using case-based focus and hands-on approach. We have successfully boosted undergraduate enrollment into our Statistics program over past few years. The number of students had increased from a dozen to 136. We believe we will be able to attract more students with curriculum uniquely tailored for Data Science program, i.e., "students learn Data Science by doing Data Science". We believe our Data Science program will serve students well whether they join the marketplace or continue on to more advanced study.

Recognizing that Data Science is at the intersection of Statistics and Computer Science, the statistics department embraces the opportunity to partner with the computer science and engineering department to establish an undergraduate Data Science program at UCR.

Sincerely,

Xinping Cui, Ph.D.
Professor and Chair
Department of Statistics
University of California, Riverside
Tel: (951) 827-2563 | Fax: (951) 827-3286
E-mail: Xinping.Cui@ucr.edu

27 November, 2018

To whom it may concern:

I am writing this letter in enthusiastic support for the enclosed proposal to establish an undergraduate degree program in Data Science. This program will be jointly administered between BCOE and CNAS, with degrees granted by each college. I have had detailed conversations with Professor Tsotras and the program committee and fully support the academic program and administrative structure. I commit to working with them and leadership from CNAS to insure the program's success.

This program will help address the critical and documented shortage of college graduates educated in Data Science and the critical interpretation and analysis of large datasets. We expect students attracted to this program to come from a variety of backgrounds and other interests, increasing the diversity among Engineering students, and those in computational fields in particular. This program is partially supported by a grant from the Center for Advancing Women in Technology (CAWIT), which funds two L(P)SOE positions (one in BCOE and one in CNAS). I have recently joined the CAWIT advisory board and believe the data science program will bring more women into computing careers.

The Bourns College of Engineering looks forward to partnering with the College of Agricultural and Natural Sciences to offer this degree to UCR students. It is an important part of keeping our curriculum current and educating our students in the era of big data.

Sincerely,

Prof. Christopher S. Lynch
Dean, Bourns College of Engineering
University of California, Riverside

College of Natural and Agricultural Sciences
Agricultural Experiment Station and Cooperative Extension
Office of the Dean – 2258D Geology Building
Riverside, CA 92521-0127

December 10, 2018

To Whom It May Concern:

RE: Data Science Undergraduate Major

I am writing to convey my support for the proposal to establish an undergraduate degree program in Data Science. The Department of Statistics in the College of Natural and Agricultural Sciences ("CNAS") and the Department of Computer Science and Engineering in the Bourns College of Engineering ("BCOE") will jointly administer this program, which will allow students to obtain a BS degree through an integrated plan of study. The program will provide an efficient and cost-effective academic path for students interested in careers within a variety of areas relating to data science.

Data Science as a discipline is found at the intersection of computer science and statistics and permeates other disciplines as well. For this program, the partnership between CNAS and BCOE is well demonstrated by the list of faculty involved: a healthy mix of faculty from both colleges. Sharing the costs for the director and co-director stipends between the two colleges is another illustration of integration of the two colleges in the program. Costs for director and co-director stipends will be equally split (50% - 50%) between CNAS and BCOE. Exact amounts will be determined at the time the program is approved.

We look forward to partnering with the Bourns College of Engineering to offer this degree program to our students.

Sincerely,

Kathryn Uhrich, Dean
College of Natural and Agricultural Sciences

Phone 951-827-6555 · Fax 951.827-5104 · WWW.CNAS.UCR.EDU

UC RIVERSIDE
UNIVERSITY OF CALIFORNIA

Marlan and Rosemary Bourns
College of Engineering

February 28, 2019

To Whom It May Concern:

Re: Proposal for the new undergraduate major in Data Science

The finance and administration team in the BCOE Dean's Office conducted an enrollment and financial analysis to determine the financial implications of establishing an undergraduate program in Data Science at UCR. This program will be jointly offered by the Department of Computer Science & Engineering and the Department of Statistic. The analysis is attached to this letter.

Based on the attached analysis, the BCOE Dean's Office finance and administration team does not have any concerns with the establishment of this degree program. The analysis was shared with the CNAS Dean's Office who did not indicate any concerns with the establishment of this degree program.

Sincerely,

Veronica Ruiz
Assistant Dean, Finance and Administration
Marlan & Rosemary Bourns College of Engineering

Tel 951.827.5190   •   Fax 951-827-3188   •   www.engr.ucr.edu
This letter is an electronic communication from UC Riverside, a campus of the UC system.

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Proposal for the new undergraduate major in Data Science

Enrollment, Degree Attainment, and Financial Resources

Projected Enrollment: The projected enrollment at the start of the program is 25-30 students; we expect a class of 50 students at steady state.
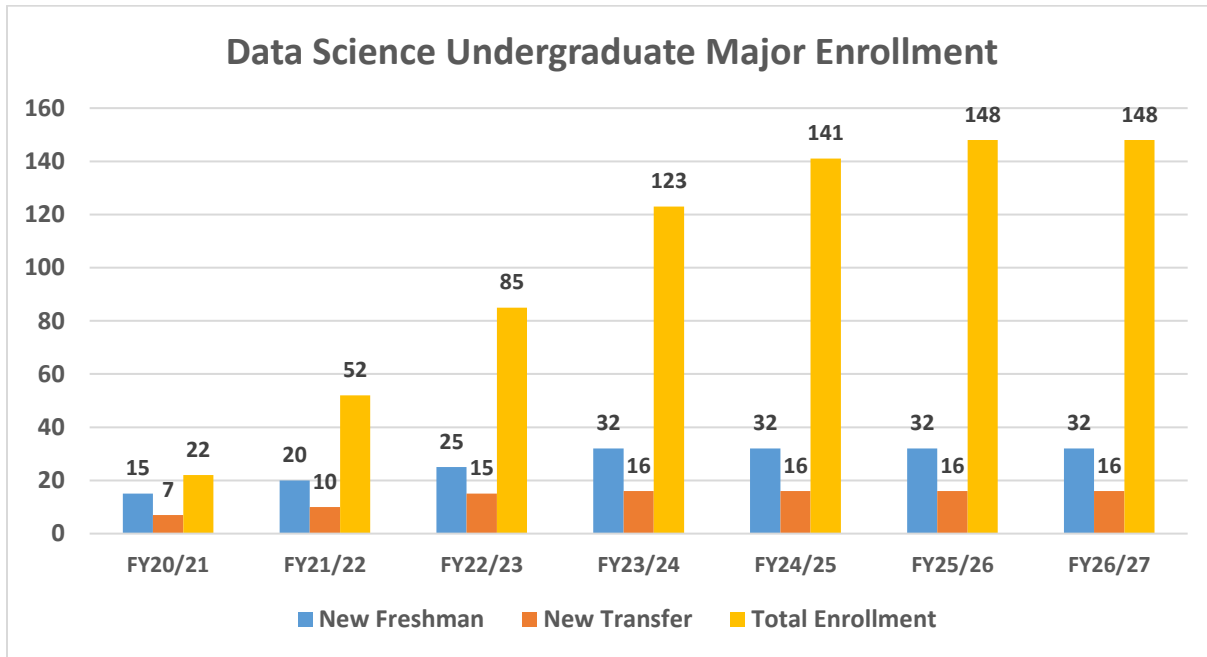
Anticipated Number of Degrees: We anticipate the BS in Data Science major will award about 40-50 degrees awarded per year at steady state.

	# of Majors	# of Degrees
FY2020/2021	22	0
FY2021/2022	52	0
FY2022/2023	85	7
FY2023/2024	123	10
FY2024/2025	141	30
FY2025/2026	148	41
FY2026/2027	148	48

Tuition Revenue and Financial Resources: The Data Science major will use existing faculty from BCOE and CNAS. New LPSOEs will teach some courses and the percentage of their time will increase as the program size grows. There will be a Director and Co-Director with stipends paid by BCOE and CNAS. TA appointments and the need for additional student advisor support will increase as the program grows, causing the need to hire additional TAs and advisors. No other new resources will be needed.

Data Science UG Major	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	FY26/27
No. of DS Majors	22	52	85	123	141	148	148
Headcount Major	1,070	1,072	1,072	1,074	1,074	1,074	1,075
Wrkload/Crdt Hrs (45 units = 1)	3,355	3,357	3,357	3,359	3,359	3,359	3,360
Tuition Revenue Data Science	97,350	230,308	376,465	545,259	625,053	656,084	656,380
Faculty - using existing	0	0	0	0	0	0	0
LPSOE - 1 @ 25% & existing	42,425	70,409	100,414	135,583	169,576	205,486	211,651
Directors - covered by Schools	0	0	0	0	0	0	0
TA appointments	0	21,029	35,009	49,520	51,308	57,997	59,541
Admin staff - add 25% & incrse	0	22,226	23,033	47,506	48,961	50,461	78,010
Library Acquisitions - no new	0	0	0	0	0	0	0
IE/Facilities/Labs - no new	0	0	0	0	0	0	0
Space/infrastructure - no new	0	0	0	0	0	0	0
Total Expenses >	42,425	113,664	158,456	232,609	269,844	313,944	349,201
Net Income for Data Science	54,925	116,644	218,009	312,650	355,209	342,140	307,179

The Bourns College of Engineering Dean's Office prepared this document, using estimates for enrollment and anticipated number of degrees provided by Dr. Tsotras and Dr. Jeske in the Data Science Undergraduate major proposal application. Tuition revenue was calculated using the estimated enrollment and calculations for headcount major and workload credits from the Campus Budget Process Appendix 2 – Tuition Revenue Distribution, with projected increases for future years. Expenses were calculated using data from the proposal related to the need for faculty, LPSOEs, directors, TAships, administrative staff, and other standard items related to the cost of undergraduate instruction. The LPSOE cost is based on the current BCOE LPSOE salary average ($116,027) and current benefit rate (39.1%) with projected increases salary increases (3%) and estimated benefit increases. The percent of time increases over the years based on the enrollment projection growths. The same calculation method was used for the administrative staff, which is based on a Student Academic Advisor 2 salary at the 25th percentile with estimated merit increases (3%) and benefit costs increases from the current 58.8%. The need for increasing administrative support rises as the enrollment rises. The director stipends are not included in the calculation as those costs will be covered by BCOE and CNAS. While this data was calculated by BCOE staff, it was shared and discussed with the financial team in the CNAS Dean's Office and both parties agree that the initial calculations are appropriate based on the proposal information and current revenue distributions and salary/benefit costs.

UC RIVERSIDE | Academic Senate
UNIVERSITY OF CALIFORNIA

April 15, 2019

To: Dylan Rodríguez, Chair
        Riverside Division

From: Paul Lyons, Chair
        Committee on Educational Policy

Re: Proposed New B.S. in Data Science

The Committee on Educational Policy (CEP) reviewed the proposal for a new B.S. in Data Science at their April 12, 2019 meeting and voted to support the proposal. The Committee does recommend that the proposal consider adding an experimental sciences sequence of courses to the curriculum for the program's first year of course work, which will help students to understand the background of the discipline of Data Science.

PLANNING & BUDGET

April 12, 2019

To: Dylan Rodriguez, Chair
              Riverside Division

From: Katherine Kinney, Chair
             Committee on Planning and Budget

Re: Proposal: New Undergraduate Major: Data Science

Planning and Budget (P&B) discussed the proposal for an undergraduate major in Data Science at their April 9, 2019 meeting. P&B would like confirmation that the Deans will plan to work together to provide TA support. The costs for the program generally are well accounted at the modest enrollment target of 50 students. The committee would like to know how this number was set and if 50 represents a cap on enrollment. If it is not a cap, we would also like to know how higher enrollments would be supported.

Committee Attendance for Academic Year 2018-2019 (September 1, 2018 - August 31, 2019)

Academic Freedom

	2018/12/13
John Levin, Chair	P
Dmitri A. Maslov,	P
Katja M. Guenther,	A
Devra A. Weber,	P
Daniel Jeske, Ex-Officio	P
Michael E. Adams, Ex-Officio	A
Nathalei De Paz, ASUCR Rep.	P
Irma Ortiz, GSA	P

Academic Personnel

	46 Meetings held - # of Meetings Attended
Rajiv Gupta, Chair	45
Sherryl Vint, Vice Chair	40
Yinsheng Wang,	40
Susan Ossman,	39
Adam J. Lukaszewski,	46
Howard S. Judelson,	46
David S. Pion-Berlin,	43
Aman Ullah,	43
Walter Clark,	40
Mary L. Droser,	40

Charges

	2018/10/02	2018/11/02	2018/11/30	2018/12/11	2019/07/24	2019/08/07	2019/08/14	2019/08/21
Timothy J. Close, Chair	P	P	P	P	P	P	P	P
Scott N. Currie,	P	P	A	A	P	P	P	P
Ann E. Goldberg,	P	P	P	P	A	P	P	P
Haizhou Liu,	P	A	P	A	P	P	A	A
Gloria Gonzalez-Rivera,	P	P	P	P	P	P	P	P
Richard Smith,	P	P	P	P	P	P	P	P
Guanshui Xu,	P	P	P	P	A	P	A	A

Committees

	2018/09/27	2018/10/04	2018/10/11	2018/10/18	2018/10/25	2018/11/29	2018/12/06	2018/12/13	2018/12/20	2019/01/10	2019/01/24	2019/01/31	2019/02/14	2019/02/21	2019/03/14	2019/03/21	2019/04/04	2019/04/11	2019/04/18	2019/04/25	2019/05/02	2019/05/09	2019/05/16	2019/05/23	2019/06/06	2019/06/20
Sarjeet S. Gill, Chair	P	A	A	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	A	A	A	P
Peter Chung,	P	P	A	A	P	P	A	P	P	P	P	A	P	A	P	P	A	P	P	P	P	P	A	P	A	A
Marek Chrobak,	P	P	P	A	A	A	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A
David Brady,										P	A	A	P	P	P	P	P	P	A	P	P	A	P	P	P	A
Jennifer Najera,	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P
Isgouhi Kaloshian,	A	A	P	A	P	P	P	A	A	P	A	P	P	P	P	A	P	A	A	A	A	A	A	A	P	A
Victor G. J. Rodgers,	P	P	A	A	P	P	P	A	A	P	P	P	P	P	A	P	A	P	A	A	A	A	A	A	P	A
Shan-Wen Tsai,	P	P	P	P	P	P	P	P	P	P	A	A	P	A	A	A	P	P	P	P	P	P	P	P	P	A
Sonja Lyubomirsky,				P	P	P	P	P	A	P	A	P	P	P	A	P	P	A	A	P	P	A	P	P	P	A
David Lloyd,	A	A	P	P	P	A	A	P	A	P	P	A	P	P	P	P	A	P	P	A	P	A	P	P	P	P
Tamara Ho,	P	P	P	P	P	P	P	A	P	A	P	A	P	A	P	A	A	A	A	A	A	A	A	A	A	P
Wenbo Ma,	P	P	P	P	A	P	P	A	P	P	P	A	P	P	A	A	P	P	P	P	P	P	P	P	P	A

Courses

	2018/10/09	2018/10/23	2018/12/04	2019/01/15	2019/01/29	2019/03/12	2019/04/15	2019/04/29	2019/06/03
Wee Liang Gan, Chair	P	P	P	P	P	P	P	P	P
Ayala L. N. Rao,	P	P	A	A	P	A	P	A	A
Zhiyun Qian,			P	P	P	A	P	A	P
Randolph C. Head,	P	P	A	P	P	P	P	A	P
Declan F. McCole,	P	P	P	P	P	P	P	P	A
Elodie Goodman,	P	P	P	P	P	P	P	P	P
David A. Biggs,	P	P	A	P	A	P	P	A	A
Tim Labor,	A	A	P	P	P	A	A	A	A
John S. Wills,	P	P	P	A	P	A	P	A	P
Marilyn Fogel,	A	A	A	P	P	A	A	P	A
Andy Veliz, ASUCR	A	A	A	A	A	A	A	A	A
Pablo Unzueta, GSA	A	P	P	P	A	A	P	A	P

Distinguished Campus Service

	2019/03/07
Linda L. Walling, Chair	P
Jose Wudka,	A
Richard A. Redak,	P
Akula Venkatram,	P
Anil B. Deolalikar,	P

Distinguished Teaching

	2019/03/06
Yenna Wu, Chair	P
Gregory J. O. Beran,	P
Juliet M. McMullin,	A
Katherine A. Borkovich,	P
Susan C. Straight,	P
Jacky Chang, ASUCR	A
Amy Boyd, GSA	P

Diversity, Equity, and Inclusion

	2018/10/18	2019/01/31	2019/04/04	2019/06/13
Boris Maciejovsky, Chair	P	P	P	P
Brandon Brown,	P	P	P	P
Philip Brisk,	P	P	P	P
Xuan Liu,	P	P	P	P
Anupama Arun Dahanukar,	P	P	P	P
Coleen A. Macnamara,	P	P	P	P
Victoria Reyes,	P	P	P	P
Mariam B. Lam, Ex-Officio	A	P	P	P
David Melgoza, ASUCR	A	A	A	A
Jessica Moronez, GSA	A	P	P	P

Educational Policy

	2018/10/05	2018/11/02	2018/12/07	2019/01/11	2019/02/08	2019/03/01	2019/04/12	2019/05/03	2019/06/07
Paul Eric Lyons, Chair	P	P	P	P	P	P	P	P	P
Ruhi Khan,	A	A	A	P	P	P	A	P	A
Qingfang Wang,	A	A	A	P	P	P	P	P	A
Randolph C. Head,	P	P	P	P	A	P	P	P	P
Anand Ray,	A	A	A	A	P	P	A	P	A
Goldberry Long,				P	P	P	P	P	P
Owen Long,	P	P	P	P	P	P	P	A	P
Vassilis Tsotras,	A	P	P	A	P	P	P	P	P
Linda L. Walling,	P	P	A	P	P	P	A	P	P
Jason Weems,	P	A	P	P	P	A	P	A	P
Gareth J. Funning,	P	P	P	P	A	P	P	P	P
Stefano Vidussi,	P	P	P	P	P	P	P	P	P
Jean Helwege,	A	A	P	P	P	A	A	A	A
Rebekah Richert,	A	P	A	P	P	P	A	A	A
Joel Sanchez, ASUCR	A	A	A	A	A	A	A	A	A

	2018/10/08	2018/10/22	2018/11/05	2018/11/19	2018/12/10	2019/01/14	2019/01/28	2019/02/11	2019/02/25
Arielle Manganiello, GSA	A	P	A	P	P	P	P	A	P

Executive Council

	2018/10/08	2018/10/22	2018/11/05	2018/11/19	2018/12/10	2019/01/14	2019/01/28	2019/02/11	2019/02/25	2019/03/11	2019/04/08	2019/04/22	2019/05/13	2019/06/10
Dylan Rodriguez, Chair	P	P	P	P	P	P	P	P	P	P	P	P	P	P
John W. Cioffi,	P	P	P	P	A	P	A	P	P	P	P	A	P	A
Kevin M. Esterling,	P	P	P	P	A	P	P	P	P	P	P	A	P	A
Manuela M. Martins-Green,	P	A	P	A	A	P	A	P	P	P	P	P	P	P
Thomas Cogswell,	P	P	P	A	P	P	P	P	P	A	A	P	P	P
Maurizio Pellecchia,	P	P	P	P	P	P	P	P	P	P	A	P	P	A
Boris Maciejovsky,	P	P	P	P	P	P	P	P	P	P	P	A	P	A
Daniel Jeske,	P	A	P	A	P	P	A	A	A	P	P	A	P	P
Jiayu Liao,	P	P	P	P	P	A	P	P	P	P	P	P	P	P
Katherine A. Kinney,	P	P	P	P	P	P	A	P	P	P	A	P	A	P
Djurdjica Coss,	P	P	P	P	P	P	A	P	P	P	P	A	A	P
Thomas Stahovich,	P	A	P	P	P	P	P	P	P	P	P	P	P	A
Margaret A. Nash,	P	P	P	P	P	P	P	P	A	P	P	P	P	P
Steven G. Brint,	P	P	P	A	P	P	A	A	P	A	P	A	P	P
Sarjeet S. Gill,	A	P	P	P	A	A	A	A	A	P	A	A	P	P
Johannes Endres,													P	P
Paul Eric Lyons,	P	P	A	P	P	P	P	P	P	P	P	P	P	A
Jason E. Stajich,	P	P	P	P	P	P	A	P	P	A	P	P	P	P
Thomas Kramer,	A	A	A	A	P	P	A	A	A	A	A	A	A	P
Deborah S. Willis,	A	A	A	A	P	P	A	P	P	P	A	P	A	P
David Volz,	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Louis Santiago,	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Jean Helwege,	A	P	P	P	P	P	P	P	P	P	P	P	A	P
Rajiv Gupta,	P	P	P	P	P	P	P	P	P	P	P	P	P	P

Faculty Research Lecturer

	2019/03/08
John M. Fischer, Chair	P
Carl F. Cranor,	P
David N. Reznick,	P
Robert R. Russell,	P
Alexander S. Raikhel,	P

Faculty Welfare

	2018/10/16	2018/11/13	2018/12/18	2019/01/15	2019/02/19	2019/03/19	2019/04/16	2019/05/21	2019/06/18
Daniel Jeske, Chair	P	P	P	P	P	P	P	P	P
Stefano Lonardi,	P	P	P	P	P	P	P	P	A
Patricia A. Morton,	P	P	P	A	P	A	P	P	A
Begona Echeverria,	P	P	P	P	P	P	P	A	P
Piotr S. Gorecki,	P	P	A	P	P	A	P	P	A
Caroline Roper,	A	P	A	P	P	A	P	P	P
Raymond L. Russell,	P	P	P	P	P	P	P	P	P
Marta Hernandez Salvan,	A	P	A	A	P	P	P	A	P
Jacob Greenstein,	P	P	A	A	P	P	P	A	P
Thomas H. Payne,	P	P	P	P	P	P	P	P	P
Traise Yamamoto,	P	P	P	P	A	A	P	P	P
Abhijit Ghosh,	P	P	A	P	P	P	A	A	A
Josiah Davis, ASUCR									
Mark Wiley, GSA									

Graduate Council

	2018/09/27	2018/10/18	2018/11/15	2018/12/13	2019/01/17	2019/02/21	2019/03/21	2019/04/18	2019/05/16	2019/06/06
Jason E. Stajich, Chair	P	P	P	P	P	P	P	P	P	P
Hyle Park,	P	P	P	A	P	P	P	P	P	P
Jang-ting Guo,	A	A	P	A	P	P	A	P	P	P
Charles (Denver) Graninger,	P	P	P	P	A	P	A	P	P	P
Meng Chen,	P	P	A	P	A	P	A	P	P	A
Erith Jaffe-Berg, (Appointed February)						P	A	P	P	P
Byron D Ford,	P	A	P	P	P	P	P	P	P	P
John N. Kim,	P	A	P	A	P	A	A	A	P	P
Subramanian Balachander,	P	P	P	P	P	P	P	P	P	P
Joshua Emmons,	A	A	P	A	P	A	A	A	P	P
Weixin Yao,	P	P	P	P	P	P	A	A	P	P
Khaleel A. Razak,	P	P	P	P	P	P	A	P	P	P
Amanda Lucia,			A	P	A	P	P	P	P	A
John A. Ellison,	P	P	P	P	P	P	A	P	A	P
Eamonn Keogh,	A	A	P	A	P	A	A	A	P	P
Shaun Bowler, Ex-Officio	P	P	P	P	P	P	A	P	P	P
Shawn Ragan, GSA	A	P	P	A	A	A	A	A	P	A
Siddharth Agarwal, GSA	A	P	P	A	P	P	A	A	P	A

Grievance Consultation Panel

Morris Maduro,	N/A
Seema K. Tiwari-Woodruff,	N/A
Sharon S. Oselin,	N/A
Rajiv Gupta,	N/A
John Levin,	N/A

International Education

	2018/10/30	2019/01/30
Nicole zur Nieden, Chair	P	P
Bahram Mobasher,	P	A
Heidi Brevik-Zender,	P	P
Nanpeng Eric Yu,	P	P
Robert Ream,	P	P
Kelechi Kalu, Ex-Officio	P	A
Kevin Vaughn, Ex-Officio	P	A
Ex Officio Magid Shirzadegan, Director of International Students and Scholars	P	P
Ex Officio Jean-Bernard Adrey, Associate Dean International Education Programs	P	P
Ex Officio Karolyn Andrews, UCEAP Faculty Rep	P	P
Kenneth Vongdi, ASUCR	P	A
Qiuyang Zhao, GSA	A	P

Library and Information Technology

	2018/10/18	2018/11/15	2018/12/13	2019/01/17	2019/02/21	2019/03/21	2019/04/18	2019/06/20
Jiayu Liao, Chair	P	P	P	P	P	P	P	P
Joseph C. Genereux,	P	P	A	P	P	P	P	P
Marlo Raveendran,	P	P	P	A	P	P	A	P
Alejandra Dubcovsky,	P	P	P	P	A	P	P	A
Lisa Raphals,	A	A	A	A	A	A	A	A
Adam Harmer,	A	A	A	A	A	P	A	A

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Weifeng Gu,	P	P	P	P	P	P	A	P
Misaki Natsuaki,	A	P	P	A	A	A	P	P
Daniel Wong,	P	P	A	A	P	A	A	A
Leonid Pryadko,	P	P	P	A	P	P	P	A
Steven Mandeville-Gamble, Ex-Officio	P	P	A	P	P	P	A	P
Danna Gianforte, Ex-Officio	P	P	P	P	P	A	P	P
Alex Gonzalez, ASUCR	A	A	A	P	A	A	A	A
Jared Smith, GSA	P	A	P	P	P	P	A	P

Memorial Resolutions

	2018/10/24	2018/11/20
Howard K. Wettstein, Chair	P	P
Tom M. Perring, (Appointed January)		
Carole-Anne Tyler,	P	A
Darleen A. DeMason,	P	P
Alexander S. Raikhel,	P	A
Keith F. Widaman,	A	A
Reza Abbaschian,	P	P
Paul D. Nabity,	P	P

Physical Resources Planning

	2018/11/14	2019/02/05	2019/05/07
Thomas Kramer, Chair	P	P	P
Naveen Reddy,	P	P	P
Ben Bishin,	P	P	P
George Darrel Jenerette,	P	A	P
Rebecca Kugel,	P	A	P
Michael Alexander,	P	P	P
Sally A. Ness,	P	P	P

Planning and Budget

	2018/10/09	2018/10/16	2018/10/23	2018/10/30	2018/11/27	2018/12/11	2019/01/15	2019/01/22	2019/01/29	2019/02/19	2019/04/09	2019/04/16	2019/04/23	2019/04/30	2019/05/14	2019/05/21	2019/05/28	2019/06/11	2019/06/13
Katherine A. Kinney, Chair	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
Harry W. K. Tom,	P	P	P	A	P	A	P	P	P	P	A	A	A	A	P	P	P	P	A
Rogerio Budasz,	P	P	P	A	P	A	P	A	P	P	P	A	P	A	P	P	P	P	A
Nosang V. Myung,	P	P	P	P	P	P	A	P	P	P	P	A	P	P	A	P	A	A	A
Covadonga Lamar-Prieto, (Appointed November)					A	A	P	P	A	A	P	P	P	P	A	A	P	A	A
James S. Tobias,	P	P	P	P	P	P	A	A	A	A	P	P	P	P	A	P	P	P	P
Francisco Zaera,	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	A	A	P	P
Mikeal L. Roose,	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
Yawen Jiao,	P	A	P	P	P	A	A	P	A	P	P	A	P	A	P	A	P	P	A
Adalberto Aguirre,	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P
David A. Eastmond,	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
Akula Venkatram,	P	P	P	P	A	P	P	A	P	A	A	P	A	A	P	P	A	A	A

Preparatory Education

	2018/11/09	2019/01/29	2019/04/30
Deborah S. Willis, Chair	P	P	P
Anthony R Jerry,	P	A	A
Jianlin Liu,	P	P	A
Sara Lapan,	P	P	P
Stephen J. Wimpenny,	P	P	A
Marko Princevac, Ex-Officio	A	P	P
Paul Beehler, Ex-Officio			P
Alicia M. Arrizon, Ex-Officio	P	P	A
Connie Nugent, Ex-Officio	P	P	P
David Volz, Ex-Officio	P	P	P
Sarah Al-Khalili, ASUCR	A	P	P

Privilege and Tenure

	2018/10/02	2018/10/30	2018/11/01	2018/11/20	2018/12/06	2018/12/13	2018/12/18	2019/01/28	2019/02/27	2019/04/04	2019/04/18	2019/06/06
Michael E. Adams, Chair	P	P	P	P	P	P	P	P	P	P	P	A
Derek Burrill,	P	A	A	A	A	A	A	A	P	P	P	P
Jianzhong Wu,	P	P	A	P	P	A	P	P	P	P	P	P
Christiane Weirauch,	P	P	P	P	A	P	P	P	A	P	P	P
Hyun A. Hong,	A	P	A	A	P	A	P	P	P	P	P	P
Nael Abu-Ghazaleh,	A	P	P	P	P	P	P	A	P	A	P	P
Luca Ferrero,	P	A	A	P	P	P	P	P	P	A	A	P
Roya Zandi,	P	P	P	P	P	P	P	A	P	A	A	A

Research

	2018/10/19	2018/11/16	2019/01/18	2019/02/15	2019/03/15	2019/04/19	2019/05/17
Djurdjica Coss, Chair	P	A	P	P	P	P	P
Kadangode K. Ramakrishnan,	P	A	P	A	P	P	P
Andreja Novakovic,	A	P	P	P	P	P	P
Fedor Karginov,	P	P	P	P	A	P	P
Sergio Joseph Rey,	P	P	P	P	P	A	P
Daniel J. Ozer,	P	P	P	P	P	P	P
Vivek Aji,	P	P	A	P	P	P	P
Kelly Y. Jeong,	A	A	P	P	A	A	A
Alison (Bella) Turner (Merlin),	P	A	P	P	P	P	P
Hai Che,	P	A	A	P	A	P	A
Wenwan Zhong,	P	A	P	A	P	P	P
Ian Wheeldon,	A	P	P	P	P	P	P
Gillian Wilson, Ex-Officio	A	A	A	A	A	A	A

Rules and Jurisdiction   This Committee Conducted all business by email

Ziv Ran, Chair				
Kevin M. Esterling,				
Kambiz Vafai,				

Scholarships and Honors

	2019/03/04
Alexander Barinov, Chair	P
Shizhong Xu,	A
Allen Mills,	P
Laxminarayan N. Bhuyan,	P
Sara K. Becker,	A
Tao Jiang,	P
Victor Ortego-Marti,	P
Brian Haynes, Ex-Officio	A
Jose A. Aguilar, Ex-Officio	P
Member TBD	A
Chelsea Davenport, ASUCR	P

Undergraduate Admissions

	2018/10/10	2018/10/24	2018/11/14	2018/11/28	2018/12/12	2019/01/09	2019/01/23	2019/02/13	2019/03/13	2019/04/10	2019/05/08	2019/06/11
David Volz, Chair	P	P	P	P	P	P	P	P	P	P	P	P
Sheldon Xiangdong Tan,		P	P	P	P	P	A	P	P	P	A	P
Peter M. Sadler,	P	P	P	P	P	P	A	A	P	A	A	P

Catherine Gudis,	P	P	P	P	A	P	P	P	P	A	P	P
Albert Z. Wang, (Resgined October)	A											
Uma M. Jayakumar,	P	P	P	P	A	P	A	P	A	P	A	A
Michael Haselhuhn,	P	P	P	P	P	P	P	P	A	P	P	A
Worku Nida,	P	P	P	P	A	P	P	P	A	P	P	P
Ex Officio LaRae Lundgren, Associate Vice Chancellor for Enrollment Services	P	P	P	P	A	P	P	A	A	P	A	P
Abigail Cortes, ASUCR	A	P	P	P	A	P	P	A	A	P	A	A

University Extension	2018/10/19	2019/02/07	2019/04/08
James P. Brennan, Chair	P	P	P
Bai-lian Li,	A	P	P
Robert Rosenthal,	P	P	A
Ashish Sood,	A	A	P
Boniface P.T. Fokwa,	A	P	P
Maryjo Brounce,	A	P	P
Alex Gonzalez, ASUCR	A	A	A