Program Change Plan: School of Computing

Provided to Faculty in the following affected unit:

- Department of Computer Science

This program change plan is in keeping with the requirements of Sections 9.04 and 9.05 of the Collective Bargaining Agreement (CBA).

A. Description of Proposed Change:

This Program Change Plan eliminates the Department of Computer Science and creates a School of Computing. The Department of Computer Science is the sole affected unit as defined by Article 9. **All degree programs associated with the Department of Computer Science, including the undergraduate and graduates degree programs and any concentrations and/or specializations, will be incorporated into and housed in the School of Computing.**

The names and academic requirements of the degree programs will not change when they are transferred to the School of Computing. Faculty holding tenure in the Department of Computer Science will have their tenure transferred to the School of Computing. Tenure track faculty in the Department of Computer Science will have their tenure track appointments transferred to the School of Computing, with no change to their tenure probationary period (see below for additional provisions regarding tenure track faculty).

Organizational Structure of School of Computing:

The School of Computing will be led by an A/P Director who will report to and serve at the pleasure of the Dean of the College[1], and who will be appointed following a search conducted in keeping with the University's Hiring Policy and Procedures. The University Policy on Department Chair responsibilities applies to School Directors. In keeping with this policy, the School Director is the chief academic, administrative, and fiscal officer for the academic unit and serves at the pleasure of the Dean. The Director is responsible for overall management and leadership of the unit and is expected to contribute to the mission of the University. The director will hold a 12-month fiscal-basis appointment.

Specific duties of the Director will include, but are not limited to[2]: planning, development, coordination, review, and administration of undergraduate and graduate instructional programs to advance learning outcomes of students enrolled in the School's academic programs, as well as students enrolled in service courses offered by the School's faculty; ensuring faculty excellence through effective recruitment, retention, and evaluation of

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[1] See statement on College structure that is provided independently from the Program Change Proposal, at the end of this document.

[2] Adapted from university policy on duties of Department Chairs, which apply to School Directors.

personnel; advancing and coordinating accreditation-related activities including program assessment; maintaining effective recruitment, retention, and degree completion rates of students enrolled in the School's academic programs; providing educational leadership, fostering excellence, and creating a culture of increased research, scholarship, and creative activity among faculty; developing and recommending budgets to the Dean, as well as administering approved budgets and controlling expenditures within the unit; promoting alumni relations and representing the School and its constituent divisions and programs to various constituencies; conducting all business and activities in compliance with applicable law, policies of the SIU Board of Trustees, University Policies and Procedures, the College and School Operating Papers, and other guidance and directives of the Dean; and fostering an environment that advances Institutional goals regarding diversity and intolerance of discrimination.

Upon creation of the School of Computing, an Interim Director for the School will be appointed following usual campus processes for appointing interim administrators. The term-basis Interim Director appointment will be made via search waiver by the appropriate Dean, in consultation with faculty members who comprise the School, and with approval of the Provost and the Office of Affirmative Action. Faculty members will be afforded a clear opportunity to express their preference regarding possible candidates for the Interim Director Position.

The search for the permanent School Director may be internal or external, consistent with current practice for hiring of Department Chairs and School Directors. In keeping with university hiring procedures and policy, an approved position announcement will be created for the Director Position; a search committee will be approved through the Affirmative Action Office; applications will be solicited; applications will be reviewed by the search committee; approved interviews will be conducted; and, a hiring recommendation that is informed by faculty and search committee feedback will be made by the Dean, with final approval by Provost and Affirmative Action Office.

A. Rationale

The broad rationale for this plan is to enhance our ability to offer cutting-edge academic programs in order to provide a world-class education to undergraduate and graduate students. The School of Computing will support the University's efforts to augment, enhance, and expand academic offerings in academic areas that are in high-demand by students.

Specifically, the current Department of Computer Science will be eliminated under this plan, with elevation to the status of an academic School. This positions the School for assertive and innovative growth of academic programming and scholarly research in the broad and diverse area of computing. Although **formally separate from this proposal**, the

administration proposes that faculty in the School of Computing consider developing new academic programs in areas such as Bioinformatics, Machine Learning, Cyber Security and Natural Language Processing. We anticipate that the School of Computing will be a focus for innovative multi-disciplinary program development and research that will foster affiliative engagement with faculty from across the campus.

B. Impact on Faculty Lines and Faculty Workload

Faculty Lines. This proposal has no effect on current Faculty lines in the Department of Computer Science. There will be no eliminations of faculty positions under this proposal.

Workload. Faculty workload assignment is governed by the terms of the Collective Bargaining Agreement (CBA) between the Board of Trustees and the SIUC Faculty Association. Additionally, the CBA requires School Operating papers to include the "criteria to be applied when determining workload[3]". In keeping with the provisions of the CBA, workload assignments in the School of Computing will be made by the School Director, consistent with Operating Paper requirements and subject to approval by the dean. To summarize, all Faculty workload assignments will continue to be made in accordance with the procedures established and required by the collective bargaining agreement.

General Considerations for Tenured Faculty. As noted previously, faculty members who hold tenure in the Department of Computer Science will have their tenure transferred to the School of Computing upon establishment of the School. The proposal will **not result in any loss of tenure** for any Faculty member in the Department of Computer Science.

Promotion Considerations for Tenured Faculty. Under the terms of the Collective Bargaining Agreement between the Board of Trustees and the SIUC Faculty Association, the **promotion** guidelines and procedures articulated in the operating papers in force at the time of the tenured faculty member's most recent promotion will apply to a promotion review case that occurs after the proposed elimination of the Department of Computer Science and the establishment of the School of Computing. Note, however, that the tenured faculty member may elect to apply the promotion guidelines and procedures of the operating papers of the newly created School of Computing to the promotion / tenure review case. Similarly, the promotion standards and procedures articulated in the 2016 SIUC Employees Handbook apply to promotion review. Please see additional information, following the section below, regarding considerations for tenure track faculty.

Tenure and Promotion Considerations for Tenure Track Faculty.   Under the terms of the Collective Bargaining Agreement, the tenure and promotion guidelines and procedures

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[3] Section 5.02, CBA.

articulated in the operating papers in force at the time the faculty member was hired into the tenure-track position will apply to a tenure / promotion review case that occurs after the elimination of the Department of Computer Science and the creation of the School of Computing. Note, however, that a tenure-track faculty member may elect to apply the tenure/promotion standards of the operating papers of the School of Computing to the promotion / tenure review case. Similarly, the promotion and tenure standards and procedures articulated in the 2016 SIUC Employees Handbook apply to promotion and tenure review.

<u>Provisional promotion and tenure procedures that will apply to current tenured and tenure track faculty.</u>

The procedures outlined in this section are provisional given that the Faculty Association reserves the right under Article 9 to bargain impact of any implemented program change.

DEPARTMENT LEVEL REVIEW

• Unless the faculty member chooses to apply the "new" School of Computing Operating Paper provisions, the "prior" (Department of Computer Science) Operating Paper will govern the process and will articulate the standards and criteria for promotion and tenure, under the following general procedures:

• The Director of the School of Computing would coordinate the process and would write the School-Level recommendation letter.

• Any academic-unit-level requirements regarding letter-solicitation, etc. that were included in the prior (Dept. of Computer Science) Operating Paper would apply

• The academic-unit-level committee would be comprised of appropriate (as defined by the School of Computing Operating Paper) faculty members who had held appointments in the prior department (Computer Science), augmenting if needed per CBA requirements.

• The academic-unit-level vote / recommendation would go to the School of Computing Director who would make an independent recommendation based on the evidence in the dossier, applying the governing standards and taking into consideration the vote/recommendation of the unit-level faculty.

COLLEGE LEVEL REVIEW

• Unless the candidate elects to apply the new operating paper from the proposed College of Science, Technology, Transportation, Engineering and Math, the "prior" (College of

Science) College Operating Paper will govern with respect to procedures, standards and criteria.

• The College-level committee would be comprised of appropriate (as defined by the College of Science Operating Paper) faculty members who had held appointments in the prior College of Science.

• The College-level committee vote / recommendation would go to the Dean of the College of Science, Technology, Transportation, Engineering and Math, who would make an independent recommendation based on the evidence in the dossier, applying the governing standards and taking into consideration the vote/recommendation of the college-level committee.

PROVOST LEVEL REVIEW

• The Dean of the College of Science, Technology, Transportation, Engineering and Math would make a recommendation to the Provost who would proceed as per current procedures and practice.

C. <u>Impact on Students and Ability to Maintain Curricula</u>

There will be no negative impact on students. To the contrary, we anticipate significant benefits to students enrolled in the School of Computing. They will ultimately have exposure to a wider range of faculty and will have opportunities to engage in cross disciplinary research, curriculum, and co-curricular activities.

For currently enrolled students, the catalog under which the student enrolled as a major will continue to govern that student's curricular requirements. An existing Computer Science student whose major will be housed in the School of Computing will have identical requirements to those in place when s/he entered the major. S/he will be able to continue the currently-enrolled-in academic program(s) through graduation based on the requirements specified in the Undergraduate or Graduate Catalog as of the date they enrolled in the program. We will ensure that we deliver on our commitments to students who are currently enrolled in the degree programs offered presently by the Department of Computer Science.

Any future changes to curriculum will be the responsibility of the faculty, and such changes would follow established campus procedures (e.g., the NUI or RME process).

Given no reduction in faculty as part of the reorganization plan, there are no implications for ability to maintain the curricula[4] offered by the current Department of Computer Science. Again, the degree programs currently housed by the Department will simply be housed in the broader administrative structure of the School of Computing.

D. Estimated Financial Costs or Savings, Including Source(s)

For this proposal, given the elimination of an Academic Department and the creation of a similarly-sized Academic School, we do not anticipate significant financial costs or savings.

E. Comparison of similar programs at Peer Institutions (if applicable)

There is no identical academic school among SIU Carbondale's IBHE Public Agenda Peers (2009). However, among that group, the University of Missouri at Kansas City hosts a School of Computing and Engineering that has a similar focus to what is proposed here.

At other universities, Schools of Computing exist at: Clemson University; DePaul University; Florida Institute of Technology; University of North Florida; University of South Alabama; University of Southern Mississippi; and University of Utah. Arizona State University has a more broadly conceived School of Computing, Informatics and Decision Systems Engineering that includes several of the academic and research foci of the proposed School of Computing.

F. Possible Consequences of the Proposed Change on the University's Carnegie Status

The proposed change will have no direct / explicit impact on the University's Carnegie Status. However, one of the goals of the proposal is to expand and enhance innovative research and scholarship in the areas of computing, informatics and digital security. This includes the goal of expanding extramural grant / contract activity, developing strategic research nodes, and increasing Ph.D. production. These, in turn, will contribute to the broader institutional goal of increasing the University's Carnegie Status to R1 (Highest Research Activity).

[END of Program Change Plan]

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[4] With exception of any proposal to eliminate a degree program. Any such proposals will be separate and apart from this program change proposal.

Independent of and apart from the Program Change Plan provided above to Faculty under Section 9.04 and 9.05 of the Collective Bargaining Agreement, **the following information is provided for informational purposes** only:

The School of Computing is proposed to become part of a provisionally-named **College of Science, Technology, Transportation, Engineering and Math.** Neither establishment, elimination, nor renaming of Colleges by the University is subject to the requirements of Article 9. Additionally, assignment by the University of Departments and/or Schools to Colleges is not subject to Article 9. However, establishment and renaming of Colleges and assignment of Departments / Schools to Colleges **is** subject to established campus shared governance processes. Accordingly, any future proposals to establish, eliminate, or rename Colleges, and proposals for assigning Academic Schools to Colleges will follow established campus procedures (e.g. review of RME by Faculty Senate and/or Graduate Council) and any review as may be required by the IBHE.

From:	Shahram Rahimi
Sent:	Tuesday, January 30, 2018 12:19 PM
To:	David L. Dilalla; Lizette R. Chevalier
Cc:	Scott E Ishman
Subject:	FW: Results of Article 9 votes

Dear Dave and Lizette,

I want to report to you the results of the two votes that CS Dept faculty (minus Dr Bosu) held on Jan 30 2017 pursuant to Article 9 of the CBA with the SIUC FA.

Faculty held a meeting without administrators in accordance with Article 9.04 item 3.
  -- A secret vote was taken on whether to waive the 90-day period and move the Proposal forward now, with these results: 12 Yes (waive 90 days and move forward), 0 No (i.e., unanimous vote to waive 90 days and move Proposal forward). This vote included me.
  -- No written feedback from faculty (anonymous or otherwise) was provided, and no alternative or modified proposals were presented for discussion.
  -- A secret vote was taken of support for the current Proposal for a School of Computing, with these results: Yes (support Proposal): 11, No: 0 (i.e., unanimous vote to support Proposal)

Best,
Shahram

David L. Dilalla

Chancellor/Provosts:

The proposed new Cyber Security program has great potential to become one of the signature programs at SIU, and I am glad to see it will be housed in the new School of Computing. While I don't know the detailed plan of the School in terms of what/how many programs will be under this School, I'd like to make the following suggestions just for your consideration:

1. Split the current IST program into "IT (Information Technology)" and "IS (Information System)", and move the IT part to the School of Computing. This will help establish the new Cyber Security program based on the existing resources including faculty expertise, Security Dawgs (student RSO and competition team), and Cyber Physical System Security lab devices, Arduino hardware/software, Raspberry PI equipment, IoT Security curriculum, and industry connections.

   The IS portion of IST will go to the School of Analytics, Finance & Economics. The RME of splitting IST was submitted last year.

   The frontier research of Cyber Security is beyond classic computer science and engineering and includes multidisciplinary aspects like psychology, ethics, law, international relations, safety and transportation. In addition to the above-mentioned IT program, other programs will contribute to Cyber Security as well, including Mathematics (especially Statistics), and Electronic Systems Technologies (EST). EST was not listed on the reorganization chart. But it is a degree program (off-campus and online) in our catalog, just like the PSM under consideration on the "Homeland Security" chart.

2. The National Security Agency (NSA) has created a new category of National Centers of Academic Excellence in Cyber Operations (CAE-CO). Currently only 19 universities in the nation were designated as CAE-CO, none of them in Illinois. I suggest SIU start applying for a CAE-CO designation immediately. SIU might become the first one in Illinois that is recognized and certified by NSA as a National Center of Academic Excellence in Cyber Operations.

Please let me know should you need further information. Thanks.

Andy Wang, Ph.D.
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Reasonable and Moderate Extension (RME)

PROPOSED ADDITION/ABOLITION, RE-ALLOCATION, OR RE-ESTABLISHMENT OF AN EDUCATIONAL
UNIT, CURRICULUM, OR DEGREE IN THE COLLEGE OF SCIENCE AND THE COLLEGE OF ENGINEERING

I.   Program inventory

This RME is to eliminate the Department of Computer Science in the College of Science and create
a School of Computing in the College of Engineering (There will be an independent RME to rename
College of Engineering). The degree programs, graduate certificates, and minors will remain intact.
Additional details are provided in the accompanying Program Change Plan.

A. Current listing of approved programs (list all within the major)

CIP	MAJOR	DEGREE	UNIT
11.0701	Computer Science	BA	Computer Science
11.0701	Computer Science	BS	Computer Science
11.0701	Computer Science	MS	Computer Science
11.0701	Computer Science	PHD	Computer Science
	Computer Science	Minor	Computer Science

B. Proposed listing

Same

II.   Reason for proposed action

This action relates to the Program Change Plan for creation of a School of Computing.

III.   Program delivery mode

Same as current delivery mode.

IV.   Anticipated budgetary effects

Please refer to the accompanying Program Change Plan.

V.   Arrangements to be made for (a) affected faculty, staff and students; and (b) affected equipment
      and physical facilities

Please refer to the accompanying Program Change Plan. There will be no reduction in faculty
resulting from this plan. There are no changes in curricula, so there is no effect on current students.

Staff may be re-assigned or added depending on the needs determined by the new school. All inventory will be assigned to the new school. The physical facilities will remain the same in the short term. A campus wide space plan is being developed that will address the needs of the new school in relationship to the campus.

VI. Will other educational units, curricula, or degrees be affected by this action?

The plan has no direct effect on other educational units, curricular or degrees.

VII. Assessment of Student Learning Outcomes

This only applies to new programs. All current assessment activities will remain in place.

VIII. Catalog copy to be deleted or added

Will be provided once the approval is completed.

IX. The requested effective date of implementation

July 1, 2018

X. Approval signatures to submit Proposal for Processing

☐Approve ☐Disapprove

_____

Signature, Dean of College of Science   Date

☐Approve ☐Disapprove

_____

Signature, Dean of College of Engineering   Date

Submit signed forms to the Associate Provost for Academic Program, Room 15 Anthony Hall, MC 4305. For assistance, please contact apap@siu.edu or call Ruth O'Rourke at 3-7654.