

AGENDA

Senate of the Urbana-Champaign Campus

April 4, 2016

3:10 – 5:15 pm

ILLINI UNION – ILLINI ROOM A

- I. Call to Order** – Interim Chancellor Barbara Wilson
- II. Approval of Minutes** – March 7, 2016
- III. Senate Executive Committee Report** – Chair Gay Miller
- IV. Chancellor's Remarks** – Interim Chancellor Barbara Wilson
- V. Questions/Discussion**
- VI. Consent Agenda**

Consent Agenda items are only distributed via <http://www.senate.illinois.edu/20160404a.asp>.

- | | | |
|----------|---|---|
| EP.16.54 | Proposal to Revise the Professional Science Masters in Geographic Information Science, LAS and Graduate College | Educational Policy
(B. Francis, Chair) |
| EP.16.56 | Proposal to Revise the Undergraduate Minor in Asian American Studies, LAS | Educational Policy
(B. Francis, Chair) |

VII. Proposals (enclosed)

- | | | | |
|----------|--|--|---|
| SP.15.21 | Revisions to the <i>Statutes</i> to Implement the Recommendations of the Hiring Policies and Procedures Review Committee | University Statutes & Senate Procedures
(W. Maher, Chair) | 1 |
| SP.16.10 | Revisions to the <i>Bylaws</i> , Part F, Section 1 – State Universities Retirement System Members Advisory Committee (SURSMAC) | University Statutes & Senate Procedures
(W. Maher, Chair) | 5 |

VIII. Illinois Climate Action Plan (iCAP) (10 min. + Q&A)

Ben McCall, Associate Director for Campus Sustainability

IX. Proposal (enclosed)

- | | | | |
|----------|--|---|----|
| CO.16.01 | Resolution in Support of the Illinois Climate Action Plan (iCAP) | Campus Operations
(N. O'Brien, Chair) | 7 |
| RS.16.06 | Campus Senate Recommendation to University of Illinois Regarding Coal Divestment | M. Scanlan, et. al. | 9 |
| BG.16.01 | Resolution Calling for the State of Illinois to Enact a Budget | Budget Committee
(M. Sandretto, Chair) | 15 |

X. Reports for Information (enclosed)

- | | | | |
|----------|--|--------------------|----|
| EP.16.67 | Expected Enrollment Increase for the Online Masters of Computer Science (MCS) Degree Focusing on Data Sciences | Educational Policy | 17 |
| SC.16.28 | BOT Observer Report – March 16, 2016 | D. O'Brien | 25 |
| UC.16.01 | Report on the 2015-16 Meetings of the University Senates Conference (USC) | M. Wheeler | 27 |

XI. New Business

Matters not included in the agenda may not be presented to the Senate without concurrence of a majority of the members present and voting. Items of new business may be discussed, but no action can be taken.

XII. Adjournment

Senate of the Urbana-Champaign Campus

March 7, 2016

Minutes

A regular meeting of the University of Illinois at Urbana-Champaign Senate was called to order at 3:10 pm in Illini Room A of the Illini Union with Interim Vice Chancellor for Academic Affairs and Provost Edward Feser presiding and Professor Emeritus H. George Friedman, Jr. serving as Parliamentarian.

APPROVAL OF MINUTES

03/07/16-01 The minutes from February 8, 2016 were approved as distributed.

SENATE EXECUTIVE COMMITTEE REPORT

Gay Miller (VMED), faculty senator and Chair of the Senate Executive Committee (SEC), noted the massmail sent from Antoinette Burton, Chair of the Chancellor Search Committee. The massmail invited campus members to attend a Public Forum on the Search for a Chancellor/Vice President of the University of Illinois at Urbana-Champaign. The Forum will be held in the Illini Union Ballroom on Friday March 11 from 12:00 pm-1:30 pm. A live stream of the event will be also be available.

Chair Miller reported continued concern about the lack of a state budget and the recent governor's address that did not include higher education. Eastern Illinois University (EIU) has given notice of furloughs and layoffs. Other state of Illinois campus Senate's have passed resolutions on the budget impasse. The Senate Committee on the Budget and the Senate Committee on General University Policy (GUP) are considering bringing a resolution on the budget impasse forward to the Senate.

03/07/16-02 Teller for the meeting were student senator Calvin Lear (GRAD), and faculty senators John Kindt (BUS) and Rolando Romero (LAS).

CHANCELLOR'S REMARKS

Interim Vice Chancellor for Academic Affairs and Provost Edward Feser gave remarks on behalf of the Chancellor. Feser noted the record number of student applications that have been submitted for fall 2016. Feser then announced that three information sessions will be held this week on the budget and budget processes. The sessions will be held on March 9 at NCSA (National Center for Supercomputer Applications), on March 14 at IGB (Carl R. Woese Institute of Genomic Biology), and on March 17 at the Illini Union. The meetings will include information on state support for the university, budget planning currently being done by colleges and administrative units, and reforms to the campus budgeting process.

QUESTIONS/DISCUSSION

In response to a question regarding the Background Check Policy, Feser responded that a committee has been appointed to review cases. Feser offered to send a list of the committee membership to faculty senator Barnes (LAS).

Student senator Villanueva (LAS) invited faculty and staff to attend an open forum hosted by the Illinois Student Senate Ad-hoc Committee on the Exploration of a University Mascot to share their opinions about the possibility of creating a university mascot. The open meeting will be at 5:00 pm on March 11 in room 407 of the Illini Union.

CONSENT AGENDA

Hearing no objections, the following proposals were approved by unanimous consent.

03/07/16-03 EP.16.37* Proposal to Establish an Undergraduate Minor in Global Markets and Society, College of Liberal Arts and Sciences

03/07/16-04 EP.16.41* Proposal to Revise the Clinical Concentrations in the Master of Social Work Program, School of Social Work

- 03/07/16-05 EP.16.44* Proposal to Rename the General Engineering Degree to Systems Engineering and Design
- 03/07/16-06 EP.16.48* Proposal to Establish or Modify an Undergraduate Minor in Public Relations (PR) offered by the Charles H. Sandage Department of Advertising, College of Media
- 03/07/16-07 EP.16.52* Proposal to Establish a Undergraduate Minor in Creative Writing, College of Liberal Arts and Sciences
- 03/07/16-08 EP.16.53* Proposal to Discontinue the Minor in the Teaching of Mathematics, Grades 6-8, in the Department of Mathematics, College of Liberal Arts & Sciences
- 03/07/16-09 EP.16.59* Proposal to Revise the Bachelor of Science (BS) in Kinesiology Curriculum in the Department of Kinesiology and Community Health (KCH), AHS
- 03/07/16-10 EP.16.60* Proposal to Revise the Mathematics and Computer Science BSLAS in the College of LAS
- 03/07/16-11 EP.16.61* Proposal to Revise the Statistics and Computer Science BSLAS in the College of LAS

PROPOSALS

- 03/07/16-12 CC.16.10* Nominations to the Athletic Board

As Chair and on behalf of the Senate Committee on Committees, Kalita nominated Allender, Sotomayor, and Willis to fill one faculty position for a four-year term expiring in 2020. The two candidates receiving the highest number of votes will be forwarded to the Chancellor for selection of one faculty member to fill the faculty vacancy.

The following vote totals were recorded by i>Clicker: Allender 62; Sotomayor 96; and Willis 85.

- 03/07/16-13 Sotomayor and Willis will be forwarded to the Chancellor for selection of one faculty member to fill the faculty vacancy.

- 03/07/16-14 SP.16.07* Amendment to the *Statutes*: Nondiscrimination Statement

As Chair and on behalf of the Senate Committee on University Statutes and Senate Procedures (USSP), Maher introduced and moved approval of proposal SP.16.07. Maher noted that proposed *Statutes* changes require two readings. At the previous Senate meeting, the USSP committee heard suggested changes to the Nondiscrimination Statement (NDS) by senators and also received additional suggestions after the Senate meeting. The USSP committee considered the proposed changes and now presents SP.16.07 for a second reading and approval by the Senate.

- 03/07/16-15 As a faculty senator and Chair of the Senate Committee on Equal Opportunity and Inclusion (EQ), Oberdeck (LAS) made a motion to amend SP.16.07 in three areas; sexual orientation, judicial status, and family responsibility. The motion was seconded and discussion followed.
- 03/07/16-16 Student senator Lear (GRAD) moved to divide Oberdeck's motion into three parts. The motion to divide was seconded and approved by unanimous consent.
- 03/07/16-17 Motion #1. Oberdeck (LAS) moved to amend SP 16.07 by replacing "...sexual orientation including gender identity..." with "...sexual orientation, gender identity, gender expression...". The motion was seconded and discussion followed. Oberdeck (LAS) also provided rationale* for the proposed changes.
- 03/07/16-18 By voice, Motion #1 was approved.
- 03/07/16-19 Motion #2. Oberdeck (LAS) moved to further amend SP.16.07 by adding "...expression, fact of an arrest, conviction history independent of individual assessment of offense in relation to specific position and time since offense/conviction/end of sentence..." directly after the language

approved in Motion #1. The motion was seconded and discussion followed. Oberdeck (LAS) again provided rationale* for the proposed changes.

03/07/16-20 By voice, Motion #2 was approved.

03/07/16-21 Motion #3. Oberdeck (LAS) moved to further amend SP.16.07 by adding "...family responsibilities" directly after the language approved in Motion #2. The motion was seconded and discussion followed. Oberdeck (LAS) again provided rationale* for the proposed changes.

03/07/16-22 By voice, Motion #3 was approved.

03/07/16-23 By voice, the motion to adopt the amended SP.16.07 was approved.

03/07/16-24 EP.16.51* Proposal to Establish a Bachelor of Science in Innovation, Leadership and Engineering Entrepreneurship (BS in ILEE) Degree in the College of Engineering.

As Chair and on behalf of the Senate Committee on Educational Policy (EPC), Francis introduced and moved approval of EP.16.51. Discussion in favor and against the proposal followed.

Proposal sponsor and Electrical and Computer Engineering Professor Andrew Singer noted that the degree is meant to be a secondary degree. Students would not be admitted into the program as a standalone degree program.

03/07/16-25 By iClicker (79 yes/65 no), the motion to adopt EP.16.51 was approved.

UNIVERSITY STRATEGIC PLAN DISCUSSION

Chair Miller suggested 20 minutes for discussion of the University Strategic Plan. Several members of the strategic plan steering committee were present to listen to the Senate discussion. In addition, SEC members Miller, Burbules, and LeRoy plan to summarize the comments and provide a written summary to the President. Additional feedback can be provided at the President's March 14 Town Hall or on the strategic plan website. Some of the Senate comments are summarized below.

A system-wide strategic plan seems strange when strategic planning has already been done at the campus level. The draft appears to be more of what the university does for the state and would be more appropriate for the proposed compact with the state.

The word "quality" does not appear in the draft and without mentioning quality, it appears not to be an important factor.

Reference to student resources is lacking. Mental health access, assistance for victims of sexual assault, and improving race relations are all important.

The words research and excellence do not appear in the draft. Concern was expressed that only economic development would be supported. Humanities is barely mentioned. Corporate language is used throughout the draft.

What is the role of departments and colleges in relation to the strategic plan?

The draft is too vague and appears to be superficial.

The draft seems to be bound to the current budget impasse and the need for funding.

The draft discusses training, not education. Education needs to be the strategic goal.

Submitting comments on a website is not the same as having a conversation. It is not clear what the role of a consulting firm is in this process.

The draft makes the university sound like a training institution rather than an educational institution.

There seems to be a gap between the vision and what the university actually does.

Mention of a system-wide enrollment plan, university-wide recruitment, assisting students enroll in an alternate campus if not accepted to their first campus choice, and development of a seamless transfer process between campuses. These were all controversial under a previous president and are still controversial.

We aim high, aspire to excellence, and to be world-class. The draft mentions expansion in a time when we are contracting. The use of the word polytechnic is concerning.

The previous strategic plan had clear benchmarks. Where is the assessment component?

Celebrating the human condition is a poor characterization of the Humanities. Humanists explore the complexities of the human condition; they critique and provide analysis.

The draft suggested a lack of fundamental knowledge of what a university does.

COMMITTEE OF THE WHOLE DISCUSSION

03/07/16-26 SP.15.08* Proposed Revisions to the *Constitution*, Article II, Section 1.b – Faculty Representation and Article III, Section 1.b – Other Academic Staff Representation

USSP Chair Maher (LIBR) made a motion to move into a committee of the whole discussion. The motion was seconded and approved by voice.

USSP Chair Maher (LIBR) then introduced the supporting document SP.15.08 noting the USSP committee intends to draft a proposal to amend the Senate *Constitution's* definition of the faculty electorate with the new category of "specialized faculty." The USSP committee will rely on discussion during the committee of the whole to draft a proposal. Maher read Options A, B, C, and D, and discussion followed.

A couple of specialized faculty that are current faculty senators by virtue of Article II, Section 1(b) of the Senate *Constitution* expressed their preference for Option C.

There was concern expressed about seat apportionment if specialized faculty were included in the faculty electorate as described in Option C. Option D was the only other option discussed by senators.

A suggestion was made to adopt the definition of the faculty electorate that is used on the Springfield campus. The USSP committee was urged to speak to other specialized faculty outside of the Senate.

03/07/16-27 Maher moved to rise and report. The motion was seconded and approved.

REPORTS FOR INFORMATION

03/07/16-28 EP.16.55* Administrative Approvals – February 8, 2016

03/07/16-29 EP.16.58* Administrative Approvals – February 15, 2016

03/07/16-30 EP.16.63* Administrative Approvals – February 29, 2016

03/07/16-31 EQ.16.02* Report on the Spring 2015 Diversity Climate Survey

As Chair of EQ, Oberdeck (LAS) gave a brief overview of the report and expressed her hope that the importance of diversity is not overlooked with the current other important campus matters.

03/07/16-32 SC.16.27* BOT Observer Report – January 21, 2016

NEW BUSINESS

None.

ADJOURNMENT

The meeting was adjourned at 4:55pm.

Jenny Roether, Senate Clerk

*Filed with the Senate Clerk and incorporated by reference in these minutes.

A video recording of these proceedings can be found at <https://go.illinois.edu/senate>

UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN SENATE

Committee on University Statutes and Senate Procedures
(First Reading; Information)

SP.15.21 Revisions to the *Statutes* to Implement the Recommendations of the Hiring Policies and
Procedures Review Committee

BACKGROUND

NOTE: This is a revision and replacement of a proposal first submitted to the Senate on November 16, 2015.

Provost and Vice Chancellor Ilesanmi Adesida and the Chair of the Senate Executive Committee, Roy Campbell, convened a special committee in October 2014 “to review policies and processes for faculty hiring.” After reviewing the *University Statutes*, *General Rules*, and Provost Communications No. 2 and 3, the Hiring Policies and Procedures Review Committee (Committee) issued its Final Report on December 12, 2014.

The Committee recommended changes to the mechanisms for Board of Trustees’ (Board) approval of academic staff. First, the Committee reaffirmed the Board’s authority for oversight of faculty hiring through its power to appoint administrators at the level of dean or higher, who in turn supervise the hiring of faculty members. The Committee’s second recommendation was that the Board “. . . should formally delegate its responsibility for tenured and tenure-track academic appointments that do not involve administrative positions at the level of deans and above to the president, who in turn should continue the existing policy of delegating to the chancellor and provost.”

The Committee reasoned that a formal delegation of responsibility was necessary to provide timely completion of the appointment process and thereby maintain the University’s competitiveness in attracting the best faculty to the University. The Committee argued that the current mechanism for obtaining Board approval added delays to the process, making appointments less efficient and therefore less attractive to potential candidates.

On March 9, 2015, the Senate passed RS.15.08 endorsing the Committee’s report and recommendations. That resolution charged the Senate Committee on University Statutes and Senate Procedures (USSP) with “determining what amendments to the *University Statutes* would be necessary to implement the recommendations of the [Committee]” and with bringing any necessary amendments to the Senate for its consideration.

After due consideration, USSP believes that the most expeditious way to accomplish the recommendations of the Hiring Policies and Procedures Review Committee is to amend the *University Statutes*, Article IX, Section 3a to provide for the delegation of the Board’s authority over hiring, tenure, promotion, and setting of salaries to the President, who may further delegate authority over these matters to the respective campuses.

After review of Article IX, USSP also believes that Section 4b regarding faculty salaries requires revision. Section 4b gives the Board the authority to set salaries; the proposed revision below has the Board delegate power over salaries to the respective campuses. The currently proposed revision would also translate existing practice into statutory language. Note: Because the pending 2014/15 *Statutes* changes include a suggested amendment to Article IX, Section 4b, this current proposal is intended to

supersede that suggested change. For purpose of comparison of the existing *Statutes* and the 2014/15 amendment, see Appendix A.

In the course of its deliberations, USSP considered the implications of the University of Illinois Act (110 ILCS 305/) for the Board's delegation of authority over hiring. Section 1 of the Act does give the Board power to enter into contracts, etc., and Section 7(a) gives the Board the power "to appoint such professors and instructors...As may be required to teach, in the most thorough manner, such branches of learning as are related to agriculture and the mechanic arts, and military tactics, without excluding other scientific and classical studies." There is nothing in the Act that prohibits the Board from delegating this power, and in fact, Section 7(a) concludes with the following paragraph: "The Board of Trustees shall have the authority to adopt all administrative rules which may be necessary for the effective administration, enforcement and regulation of all matters for which the Board has jurisdiction or responsibility." The present proposed revisions to the *Statutes* are an example of rules necessary for the effective administration of hiring at the University. In addition, the Board already delegates other powers granted under the University of Illinois Act, such as its power over Admissions described in Section 8. Thus, the delegation of authority as called for in this proposal is entirely consistent with the University of Illinois Act.

For the April 6, 2015 Senate meeting, USSP recommended language that partially addressed the need identified in the Committee's report. However, despite the Senate's acceptance of those USSP recommendations, they were not included in those *Statutes* amendments which the University Senates Conference (USC) forwarded to the President in late May, 2015, and which are currently under review by University Administration. Furthermore, USSP now recognizes that its April, 2015 recommendations were incomplete and thus has provided this more comprehensive proposal.

USSP has also amended the proposed revisions based on suggestions from the floor during the November, 2015 Senate meeting. Specifically, this proposed revision includes "equivalent executive officers" among the appointments that require direct approval of the Board. In addition, the proposed revision no longer distinguishes between academic staff and tenure system faculty in regard to Board approval of personnel actions.

RECOMMENDATION #1

The Senate Committee on University Statutes and Senate Procedures recommends approval of the following revisions to Article IX, Section 3 of the *Statutes*. Text to be added is underscored and text to be deleted is ~~stuck through~~.

PROPOSED REVISIONS TO THE STATUTES, ARTICLE IX, SECTIONS 3 AND 4

SECTION 3a:

~~All appointments, reappointments, and promotion of the academic staff, as defined in Article IX, Section 4a, shall be made by the Board of Trustees on the recommendation of the chancellor/vice president concerned and the president. The board has the power to appoint, reappoint, and promote members of the academic staff, as defined in Article IX, Section 4a. Appointments requiring direct approval of the board include the president, University officers, vice chancellors, academic deans and equivalent executive officers, the CEO of the healthcare system, directors of intercollegiate athletics, head coaches for football and basketball, and intercollegiate athletics multi-year contracts for coaches. For all other academic staff, the board shall delegate its authority for employment, reappointments and promotions to the president who may further delegate to the campuses, in accordance with published administrative rules and procedures. Employment approval of all new academic appointments under these administrative rules and procedures must occur prior to the beginning date of the appointments.~~ All appointments, reappointments, and promotions of the administrative staff shall be made by the Board of Trustees on the recommendation of the chancellor/vice presidents concerned if a campus-level officer is involved and the president.

17 SECTION 4b:
18 The members of the academic and administrative staffs whose positions are not directly approved by the
19 board shall be employed, reappointed, promoted, and have their salaries fixed by the campuses, and
20 reported to the board by the president. ~~Board of Trustees, except that members of the academic staff~~
21 ~~below the rank of assistant professor may be employed by the president of the University who shall~~
22 ~~report such appointments to the board.~~

23

RECOMMENDATION #2

The Senate Committee on University Statutes and Senate Procedures recommends the following advice be conveyed to the Board of Trustees.

The Senate recommends that the Board of Trustees formally delegate its responsibility for tenured and tenure-track academic appointments that do not involve administrative positions at the level of academic deans and above to the president, who in turn should delegate the responsibility to the chancellor and provost.

RECOMMENDATION #3

On April 6, 2015, as part of the general revisions of the University Statutes, the Senate approved the addition of Article IX, Section 3f, which read:

Academic appointments requiring direct approval of the Board of Trustees include the President, University officers, deans, the CEO of the University hospital, directors of intercollegiate athletics, head coaches for football and basketball. Board approval prior to the beginning date is required for all new tenure-track and tenured faculty appointments.

The Senate Committee on University Statutes and Senate Procedures recommends that the proposed paragraph 3f be deleted.

UNIVERSITY STATUTES AND SENATE PROCEDURES

William Maher, Chair

H. George Friedman

Shawn Gordon

Wendy Harris

Anna-Maria Marshall

Gisela Sin

Sandy Jones, *Ex officio (designee)*

Marilyn Marshall, *Observer*

Jenny Roether, *Ex officio*

APPENDIX A

SECTION 4b:

The existing language in the *Statutes*, Article IX, Section 4b reads:

The members of the academic and administrative staffs shall be employed and salaries fixed by the Board of Trustees, except that members of the academic staff below the rank of assistant professor may be employed by the president of the University who shall report such appointment to the board.

The 2014/15 proposal for general revisions to the *Statutes* made a number of changes that were acceptable to the UIUC Senate. The paragraph 4b as transmitted by the USC to the President reads:

The members of the academic and administrative staffs shall be employed and salaries fixed by the Board of Trustees, except that members of the academic staff below the rank of assistant professor may be employed by the campuses. These appointments shall be reported to the board by the president.

In addition, the general revisions to the Statutes forwarded by USC on May 27, 2015 included a new paragraph 3f which read:

Academic appointments requiring direct approval of the Board of Trustees include the President, University officers, deans, the CEO of the University hospital, directors of intercollegiate athletics, head coaches for football and basketball. Board approval prior to the beginning date is required for all new tenure-track and tenured faculty appointments.

The proposed paragraph 3f would no longer be necessary if this proposed revision passes.

UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN SENATE

University Statutes and Senate Procedures
(Final, Action)

SP.16.10 Revisions to the *Bylaws*, Part F, Section 1 State Universities Retirement System
Members Advisory Committee (SURSMAC)

BACKGROUND

SURSMAC is an advisory committee to the State Universities Retirement System (SURS) consisting of members representing each SURS employer. At its June 18, 2015 meeting, this committee passed a new Constitution specifying that the terms of each member be six years. This will go into effect on July 15, 2016. Initially, half of the members from each employer will serve a three-year term and half a six-year term.

The University of Illinois at Urbana Champaign is authorized to have four representatives on SURSMAC. Traditionally two have been academic representatives elected by the Senate. This proposal would change the term limit from the current three-year term to a six-year term specified by the SURSMAC Constitution.

The Constitution of SURSMAC provides the UIUC campus with two academic and two non-academic representatives. The Senate is responsible for choosing the academic representatives so the *Bylaws* are amended to reflect the correct wording.

RECOMMENDATION

The Senate Committee on University Statutes and Senate Procedures recommends approval of the following revisions to the *Bylaws*. Text to be added is underscored and text to be deleted is ~~struck through~~.

PROPOSED REVISIONS TO THE BYLAWS

- 1 **Part F – Senate Representatives to Other Bodies**
2 1. **State Universities Retirement System Members Advisory Committee.** The campus
3 has two ~~faculty~~ academic representatives on the Committee, elected by the Senate
4 for ~~three~~ six-year terms, starting January 1. They need not be senators.
5

UNIVERSITY STATUTES AND
SENATE PROCEDURES
William Maher, Chair
H. George Friedman
Shawn Gordon
Wendy Harris
Anna-Maria Marshall
Gisela Sin

Sandy Jones, *Ex officio*
(*designee*)
Marilyn Marshall, *Observer*
Jenny Roether, *Ex officio*

UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN SENATE
Committee on Campus Operations
(Final; Action)

CO.16.01 Resolution in Support of the Illinois Climate Action Plan

BACKGROUND

The pioneering efforts of University of Illinois alumnus Charles David Keeling in the late 1950s and early 1960s led to the realization that the concentration of carbon dioxide (CO₂) in Earth's atmosphere rises and falls each year as the terrestrial biosphere "breathes," but is steadily rising over time. Based on a variety of evidence, it is now clear that this overall rise is primarily due to the burning of fossil fuels. The amplification of the greenhouse effect by rising CO₂ concentrations has been equally clear, resulting in the 16 hottest years recorded since 1880 all occurring from 1998-2015 (NOAA). As CO₂ concentrations continue to rise, driven largely by the continuing growth of the world economy, scientists forecast continued warming and climate variability, with long-lasting and potentially irreversible impacts on sea levels, biodiversity, and agriculture.

In 2008, Illinois signed the American College & University Presidents' Climate Commitment, which committed our campus to carbon neutrality—eliminating or offsetting all carbon dioxide emissions—by the year 2050. In 2015, Interim Chancellor Wilson endorsed an updated Illinois Climate Action Plan (iCAP), which lays out objectives and potential strategies in the areas of energy conservation and building standards, energy generation and purchasing, transportation, water conservation, waste management and recycling, landscaping and agricultural operations, carbon offsets, financing of new initiatives, and education, research, and outreach (<http://sustainability.illinois.edu/campus-sustainability/icap/>). We note that the campus has made progress in reducing its energy usage, and exceeded many of its initial goals set in 2010. It is clear, however, that substantially greater efforts will be required in order to fulfill the iCAP goals on time.

Our student body has long been at the forefront of pushing for reductions in the environmental impacts of our campus operations. We believe it is time for the Senate to strongly endorse support of sustainability, and to call on the administration to make the implementation of the 2015 iCAP goals on the stated timeline a priority for the allocation of funding and human resources while maintaining the university's tradition of excellence in scholarly activities. The very future of the University may depend on it.

Resolution in Support of the Illinois Climate Action Plan

WHEREAS the atmospheric concentration of carbon dioxide has been steadily rising since the pioneering measurements of University of Illinois alumnus Charles David Keeling began in 1958, and

WHEREAS this increase is predominantly due to combustion of fossil fuels, and

WHEREAS the broad consensus of the climate science community (including experts at the University of Illinois) is that the increase of carbon dioxide concentration and that of other greenhouse gases is altering Earth's climate, increasing average temperatures, and increasing climate variability, and

WHEREAS such changes in Earth's climate have the potential to threaten the productivity of modern agriculture, disrupt coastal populations around the world, and cause profound economic damage, and

WHEREAS dependence on fossil fuels has a negative impact on air quality and human health, and

WHEREAS in 2008 Illinois signed the American College & University Presidents' Climate Commitment, which committed our campus to carbon neutrality by the year 2050, and

WHEREAS the 2010 Climate Action Plan established realistic goals for energy consumption that assisted us in reducing our energy use per square foot by 20% from FY08 to FY14, saving the campus over \$16 million, and

WHEREAS further steps toward carbon neutrality will require campus-wide support of significant new or additional efforts coordinated across the campus community,

THEREFORE BE IT RESOLVED THAT the University of Illinois should reduce its carbon footprint as quickly as possible in order to help prevent devastating climate disruption, and

BE IT FURTHER RESOLVED THAT the University of Illinois should take a leadership role by demonstrating how large organizations can effectively eliminate their carbon footprint, and

BE IT FURTHER RESOLVED THAT the Senate recommends that the administration make it a top priority to allocate funding and human resources to the full and rapid implementation of the goals of the 2015 Illinois Climate Action Plan while maintaining the tradition of excellence in scholarly activities that define the University of Illinois at Urbana-Champaign as a world-leading research and teaching institution.

Committee on Campus Operations

Nancy O'Brien, Chair
John Dallesasse
Tom Johnson
David Kennedy
Gary Kling
Vidar Lerum
Luke Olson
Aaron Thomas
Tony Wong
Carol Emmerling-Dinovo
Paul Couston, *ex officio*
Ben McCall, *ex officio*
Suzanne Rinehart, *ex officio*
Allan Stratman, *ex officio*

UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN SENATE
Prefiled Resolution

RS.16.06 *Campus Senate Recommendation to University of Illinois Regarding Coal Divestment*

WHEREAS, the University of Illinois at Urbana- Champaign currently indirectly invests \$5.1 million in coal mining and coal utility companies, and

WHEREAS, industry analysts have predicted that investments in coal mining and coal utility are stranded assets, and

WHEREAS, a student referendum in 2013 passed 6:1 in favor of the divestment of these funds, and

WHEREAS, over 50 members of faculty have currently signed a petition supporting divesting from these funds, and

WHEREAS, over 458 institutions, including the University of California collective, University of Washington, and University of Maine, globally have committed to divesting a total of \$2.6 trillion from the fossil fuel industry which includes coal mining and coal utility companies, and

WHEREAS, the University of Illinois at Urbana-Champaign has committed that we believe we must, “...exercise leadership by modeling ways to minimize global warming emissions” as part of our 2015 Climate Action Plan, and

WHEREAS, the university could accomplish divestment and minimize management costs by switching to a socially responsible passively managed investment fund instead of an actively managed investment fund, and

BE IT RESOLVED, that the Senate of the Urbana-Champaign Campus, recommends that the Board of Trustees establish a university policy divesting all indirect funds from coal mining and coal utility companies.

Submitted by student senators:

Marshaun Montgomery (GRAD)
Madison Scanlan (ACES)
Farah Chalisa (LAS)
Patricia Rodriguez (LAS)
Raneem Shamseldin (ACES)
Grace Mladenik (ACES)
Katherine Mertens (AHS)
Ron Lewis (BUS)
Siddhant Chawla (ENG)

Gaurav Pasari (ENG)
Rahul Raju (ENG)
Milan Dasgupta (ENG)
David Hanley (GRAD)
Anita Mixon (GRAD)
Joseph Moseley III (GRAD)
Ronnie Lopez Cepero (GRAD)
Bobby Knier (LAS)
Andrew Storm (LAS)

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Appended to
RS.16.06

College of Law
504 East Pennsylvania Avenue
Champaign, IL 61820



Date: February 27, 2015
To: Chancellor Phyllis M. Wise
From: Lesley Wexler, Chair & Jeffrey R. Brown, former Chair
Ad-Hoc Licensing Advisory Committee
Re: Student Vote on Divestiture from Coal Mining and Coal Utility Companies

As you know, students on the Urbana campus recently passed a referendum requesting that the University of Illinois at Urbana-Champaign divest from 15 major coal mining and coal utility companies. The referendum recommended a “negative screen” for the university’s \$1.81 billion endowment, meaning that these companies would be excluded from our investment portfolios. Students collected over 4000 signatures to get the referendum to appear on the ballot and the referendum passed with the support of 1730 out of 2020 votes cast (reflecting a voter turnout of under 5 percent of eligible voters). We wish to commend the students of the Beyond Coal Campaign for their commitment in bringing this issue to the University’s attention.

This matter was referred to the Ad-Hoc Licensing Advisory Committee for further consideration. This committee is comprised of representatives from faculty, staff, and students and has historically been used to provide advice on a number of economic and financial issues. In consultation with university and campus investment officials, we have drafted this memo as a recommendation for possible next steps.

Background on the Role of Coal Companies in the University’s Investment Portfolio

Approximately \$500 million is held in the university’s endowment, and another \$1.3 billion is held and managed by the University of Illinois Foundation (UIF). As is common in higher education, both the university and the foundation hire external investment managers, who in turn utilize a variety of active and passive management strategies to provide broad portfolio diversification. The university, acting in a fiduciary capacity, is required under the Uniform Prudent Management of Institutional Funds Act (760 ILCS 51/1) to “diversify the investments of an institutional fund unless the institution reasonably determines that, because of special circumstances, the purposes of the fund are better served without diversification.” Diversification is essential to providing a portfolio that maximizes the expected investment returns for any given level of risk.

Neither the UIF nor the university has any *direct* holdings in the coal companies that were targeted by the referendum. However, the endowment has an *indirect* exposure, via the externally managed funds, to the 15 major coal mining and coal utility companies valued at \$5.1 million. This represents just 0.28% of the total endowment. \$4.2 million of this exposure, or 82% of our total exposure to the 15 companies, is held in passively managed indexed funds that seek

to mirror overall market performance at very low cost – the average index fund fee is less than 0.10% of assets annually.

Context for the Issues Raised in the Student Referendum

Over time, social issues regarding investments change to reflect the current zeitgeist. Historically, there have been calls for divestment from gun and weapons manufacturers, tobacco companies, alcohol producers, companies with unpopular labor practices, agricultural GMOs, financial services firms, and companies using animal testing. Although the university certainly is concerned about many of these issues, it would be impossible to build an efficient investment portfolio that is acceptable to all constituents. Thus, an important consideration when evaluating any call for divestiture is to consider whether this sets a precedent for further winnowing of our investment opportunities as additional issues arise in the future.

We also note that although some social issues, e.g., apartheid in South Africa, are quite obviously net negatives for society, the use of fossil fuels is a more complex societal issue. Although the use of fossil fuels does generate significant negative environmental externalities that are not reflected in their market price, it is also true that society benefits from the use of fuel to manufacture goods, cultivate crops, conduct research, deliver medical care, and provide transportation. At present, a significant proportion of U.S. energy comes from fossil fuels, including coal. That said, the University has signed the American Colleges and University Presidents' Climate Commitment and is in the process of "systematically shifting [its] reliance on fossil fuels to an appropriate balance of energy conservation and alternative and renewable energy sources."¹ The university community is currently addressing the environmental impact of fossil fuels through building design efficiency, behavioral changes that reduce consumption, and continued research and development of renewable energy sources.

Implications of Negative Screening

Though the committee shares the Beyond Coal Campaign's unease with the environmental effects of fossil fuel usage, we also want to raise some potential costs and concerns about adopting a strategy of divestment through negative screening.

1. *Negative screening would increase investment costs:* Switching to a manager that would screen out coal investments would require an investment policy statement change by the Board of Trustees, engagement of investment consultants, plus a lengthy and potentially costly search process. Moreover, the change would increase annual investment costs by two and one half times (fees would increase from 0.10% for passively managed funds to at least 0.35% for actively managed funds). This increase would result in additional investment costs of at least \$2.5 million annually based on a \$1 billion portfolio.

¹ Energy Management, University of Illinois at Urbana-Champaign, Goals & Strategies, <http://www.energymanagement.illinois.edu/goals-strategies.cfm>.

2. *Negative screens may hinder investment performance:* As a general principle of financial economics, placing investment restrictions on a portfolio makes it more difficult to invest in the “efficient frontier” that maximizes expected returns on a risk-adjusted basis.

3. *Negative screening may not be consistent with donor intent:* Donors to the endowment pool have a reasonable expectation that their gifts will be invested to maximize benefits to the university. The donors themselves have not requested restrictions on investments or negative screens.

4. *It is not clear that negative screening will produce positive effects:* If we required our fund managers to sell the approximately \$1 million of stock in coal and utility companies, those shares will be purchased by another buyer with virtually no long-term impact on the companies. The cash would not be withdrawn or taken away from the company. Divestment would have no effect on the firm’s revenues and no long-term effect on the share prices.

If the goal is simply to express a message that is supportive of renewable energy and distance the University from a relationship with coal, we worry that a strategy of passive divestment coupled with ongoing use of coal burning plants on campus and along with other existing and potential connections to coal companies will be viewed as hypocritical.

5. *Negative screening for coal does not contain an obvious limiting principle:* Other student groups interested in divestment from a plethora of companies involved in socially questionable or controversial practices may be emboldened by the adoption of negative screening for coal companies. The current divestment campaign does not contain an obvious limiting principle that would exclude other groups for asking for similar measures which, if adopted, would magnify the potential negative implications. The licensing committee is not the ideal venue for addressing such campaigns and the University does not currently employ a comprehensive approach to these issues. We think it makes more sense to address such concerns systematically, if possible, rather than opening the door to future ad-hoc divestment decisions.

Recommended Next Steps

1. *Going forward, we would strongly encourage the reconstruction of a Social Responsibility Committee.* Such a committee ought to address both licensing and investment issues with members drawn from relevant bodies including the University of Illinois Foundation, the Chancellor’s office, the faculty, and the students. The existing licensing committee might function as a subcommittee to the larger committee by convening for those matters within its expertise. A broadly constituted Social Responsibility committee could consider not only the pros and cons of a single divestment campaign, but systematically address socially responsible behavior including the creation of access to investment funds for future donors to make gifts consistent with their social preferences and the ongoing work of the licensing committee. It is our understanding that such a committee used to exist, but we are unaware for the reasons leading to its disbandment.

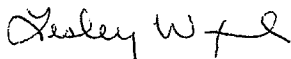
2. *In the present environment, the Committee recommends that we do not divest from coal.* Although the Committee recognizes that social or ethical issues could warrant active shareholder engagement or divestment, we do not think this committee is well positioned to endorse an ad-hoc approach to divestment. Rather we think such issues along with possible pro-active social responsibility investment strategies should be considered by a Social Responsibility Committee. In the absence of such a committee, we are not convinced that divestment from coal companies is a compelling case for the reasons identified above. Coal and other fossil fuels are a necessity of the production of energy in today's modern life. Although there are negative environmental effects from the use of fossil fuels, divestment would have no immediate impact on the production or use of these products.

3. *We recommend that the campus continue to invest in other efforts to directly reduce energy consumption and move towards more sustainable energy sources.* The campus has already taken a number of direct steps that are consistent with the attainment of the ultimate goals of the "Beyond Coal" movement, and we encourage continued support of these and similar activities. These include:

- a. continue to support the mission of the Institute for Sustainability, Energy, and Environment, which was reaffirmed at the November 14 Board of Trustees meeting;
- b. continue the existing policies of making university endowment farms available for wind turbine development, placing Zipcars on campus, planning for the 7.5 GWH per year solar farm at the corner of First Street and Windsor Road in Champaign, installing solar photovoltaic on the Business Instructional Facility and the Electrical Computer Engineering building;
- c. continue to work towards the campus goal of reducing energy consumption in existing buildings (note: the Urbana campus has reduced energy consumption in existing buildings by 25%) and pursue the campus goal of 5% renewable energy by 2015; and
- d. continue to support campus research that seeks to develop alternative energy and battery storage technologies where students could get directly involved in developing technologies that may replace fossil fuels for energy production.

4. *Develop a long-term plan for the Abbott Power Plant that reduces coal consumption.* We note that coal has not been burned at the Abbott Power Plant during the past three summers. Facilities and Services is reviewing infrastructure and fuel options for the Abbott Power Plant with an eye toward continued reduction in coal consumption balanced with meeting campus demand for reliable steam, cooling, and electricity.

5. Finally, we view this referendum as a possible opportunity to more fully engage the university community. Our faculty includes many leading experts on the technical, environmental and economic impacts of energy. This referendum may be an opportunity for the campus to support an on-going campus conversation, such as through a panel discussion or workshop, which more fully explores issues related to climate change initiatives. We welcome the dedicated students of the Beyond Coal campaign to join us in this conversation.



Lesley Wexler
Professor of Law
University of Illinois College of Law



Jeffrey R. Brown
Professor of Finance
University of Illinois College of Business

c: J. Barrett
J. Brown
M. DeLorenzo
M. Gold
M. Kaufmann
L. Mwilambwe
L. Wexler
C. Wojtan
A. Woronowicz

UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN SENATE
Committee on the Budget
(Final; Action)

BG.16.01 Resolution Calling for the State of Illinois to Enact a Budget

WHEREAS, public higher education serves essential functions for citizens throughout the State of Illinois; and

WHEREAS, the lack of a FY 2016 budget is causing serious harm to public universities across the state, including the University of Illinois at Urbana-Champaign; and

WHEREAS, the lack of a budget impedes the ability of the University of Illinois at Urbana-Champaign to fulfill its land-grant mission; and

WHEREAS the absence of a FY 2016 budget negatively impacts the University of Illinois at Urbana-Champaign's ability to improve and increase undergraduate diversity and enrollment of in-state students, to retain and improve our world-class research faculty and facilities, and to increase technological research and entrepreneurship that improves economic conditions and increases employment in the State of Illinois; and

WHEREAS, maintaining and enhancing diversity of our student body, faculty and staff is integral to the strategic goals of fostering scholarship, discovery and innovation, making a significant and visible societal impact, and providing transformative learning experiences; and

WHEREAS, the University of Illinois at Urbana-Champaign is currently revising its internal financial reporting system and tuition allocation system to better align college incentives with strategic goals, which we expect will increase undergraduate enrollment of in-state students; and

WHEREAS, this goal of expanding enrollment can only be achieved if the University of Illinois at Urbana-Champaign improves and adds to its teaching spaces, while also increasing the size of its faculty; and

WHEREAS, this lack of a budget impedes the ability of the University of Illinois at Urbana-Champaign to retain our world-class teaching and research faculty, who frequently receive offers from other universities; and

WHEREAS, replacing world-class faculty, once they are lost, is costly and complex, and made even more difficult by uncertain state funding; and

WHEREAS, it requires decades to build a world-class research institution, but only a few years to reduce such an institution to average; and

WHEREAS, the University of Illinois at Urbana Champaign needs strong support from the State of Illinois to continue and enhance its ability to educate students in the State of Illinois, to contribute to the general economy of the State of Illinois, and to build the Chicago-Urbana-Champaign corridor into a world-class center for innovation and entrepreneurship,

THEREFORE BE IT RESOLVED, that the Senate of the Urbana-Champaign Campus of the University of Illinois urges the State's Legislature and Governor to expeditiously pass a FY 2016 budget that strongly supports funding for higher education throughout the State of Illinois and that demonstrates a strong multi-year commitment in support of higher education in the State of Illinois.

Committee on the Budget

Michael Sandretto, Chair

Deming Chen

Dilip Chhajed

Harry Clore

Stephanie Davidson

Mitch Dickey

David Hanley

Michael LeRoy

Vicky Gress, *ex officio*

Department of Computer Science

201 North Goodwin Avenue
Urbana, IL 61801-2302 USA



To: Prof. Bettina Francis,
Chair, Senate Educational Policy Committee

The Department of Computer Science intends to deploy a specialization of its online Masters of Computer Science (MCS) degree focusing on Data Sciences (“DS”). This MCS-DS specialization will be delivered in an online format that follows the model of the iMBA. It will use Coursera MOOC video lessons for lecture delivery and an LMS (e.g., Compass) to manage the assignments, exams, projects and office hours. As it does with our current online MCS, the LMS provides a platform restricted to registered students only, and provides them access to faculty and TAs for advice and assessment commensurate with a credit-bearing online course. Given the visibility of the Coursera MOOC platform and the high demand for Computer Science and Data Science education, the scalable nature of this new program delivery option will allow us to better meet market demand and enrollments, and will likely increase enrollments more than 25% per cohort as the program scales up to its potential over the coming years. The initial enrollment target will be 150 students, and growth will be regulated by the CS Department to ensure it maintains proper academic rigor and avails itself of adequate staffing and support.

Background

The Computer Science Department is consistently ranked among the top 5 CS programs in the nation, and the top 15 CS programs in the world. Its programs have some of the highest entrance requirements on campus, and its classes are notoriously overbooked. Its online MCS program was originally developed over 15 years ago to deliver the MCS to students in India, but is now a rather standard online masters degree and is largely unknown due to lack of attention in this highly competitive field.

The online MCS was reviewed by CEEED (the Committee on Extended Education and External Degrees) in April 2014. The CEEED review found that the program was healthy with good levels of student satisfaction (20%/57%/23% moderately/very/extremely satisfied). One of the most common complaints was the use of classroom video capture for lecture delivery.

The CEEED review noted that the program only enrolls about 31 students each year, which is quite small given the high demand for skilled professionals in the computer sciences, and well below the CS Department’s desired enrollment targets for this program. CS has hired a marketing specialist, contracted with an advertising agency for \$18K/year, contributes \$600/year to Engineering in support of their college-wide online degree marketing activities, and has also paid for an MBA marketing class study to develop new online MCS marketing strategies.

The CEEED review also noted the diversity challenges of the program. Over the previous three years, the program enrollment was only 4.2% female and 4.2% underrepresented minorities. At this same time, the CS campus graduate program has grown female enrollment from 15% to 20% and doubled its URM enrollment to 22 students.

In the meantime, Georgia Tech has offered a MOOC-based OMSCS (Online Masters of Science degree in Computer Science). The program immediately benefited from the press in the form of free advertising in

nearly 700 articles, growing to a single cohort enrollment of 2,841 in just two years. Of its students, 13% are female, 16% URM and 79% domestic (US citizen or permanent resident). The Georgia Tech CS PhD program recruits the strongest candidates from its online Master's program to improve the diversity of its campus population.

A New Delivery Format for the Online MCS

We propose to offer a version of the online MCS degree that utilizes MOOC components similar to the Georgia Tech OMSCS and our campus's iMBA, and similarly benefits from the accompanying marketing and recruiting opportunities.,

The Computer Science Department currently provides a variety of MOOC courses in partnership with Coursera. These MOOCs consist of lecture video organized into short lessons (15-20 minutes) with embedded quizzes to improve learner attention. Students are assessed via several mechanisms supported on the platform: auto-graded quizzes, homeworks and exams; auto-graded software programming assignments; and peer-graded homework and project assignments. CS offers sequences of these MOOC courses that can be completed as Coursera specializations for certificates in Data Mining and in Cloud Computing.

While these MOOCs in their current form can result in certificates, they do not suffice alone to meet the requirements of university course credit that can be applied toward a degree. To meet university credit requirements, the assessment of students must be properly overseen by qualified faculty and TA's, who can provide verifiable assessment and feedback to students to ensure the satisfactory completion of course requirements.

The iMBA refers to the additional requirements above those of a MOOC as "high engagement." The iMBA offers 8-week high-engagement sessions that are synchronized with MOOC offerings to meet the requirements of course credit.

The MCS-DS instead consists of semester-long courses. The lecture material for each course is provided by two or more MOOCs offered during the semester. These MOOCs are the standard Coursera MOOCs available to Coursera students. In addition to the MOOC lecture material, an MCS-DS course will also include access to an LMS that will manage assignments, exams and projects, and support TA grading, feedback and guidance, that is restricted to UIUC students registered for the course.

The assessment of the proposed MCS will combine multiple existing and new assessment elements. The existing online MCS is LMS-based and includes assessment procedures that ensure the effective education of students. The program will also continue to be assessed through these and other standard periodic campus review procedures. In addition to these existing assessments, the proposed MCS-DS delivery format includes a MOOC portion, and Coursera provides ample, detailed, quantitative and qualitative assessment and feedback for all of its MOOCs.

The Data Sciences Specialization

Our initial offering of this MOOC-supported MCS degree is a specialization in the new field of Data Sciences. Data Science has emerged as a "fourth approach to scientific discovery, in addition to experimentation, modeling and computation," as reported by U. Michigan [press release, Sep. 8, 2015] when they initiated their \$100M Data Science program by announcing 35 new faculty positions. They are joined by Stanford, NYU, USC and others that have introduced similarly innovative master's degrees in Data Science, and online versions of these degrees have been designed and offered by UC Berkeley, Wisconsin and others.

In cooperation with the Statistics Department and our I-School, the Computer Science Department approved, in a 3/4/16 faculty meeting, to proceed with this new online delivery format, starting with a new departmental specialization in Data Science for the MCS program. This MCS Data Sciences (MCS-DS) specialization satisfies all of the requirements of the MCS program while covering the key areas of Data Science across Computer Science, Information Science and Statistics. In particular, its courses in four areas of Data Science satisfy the MCS's coursework requirements in four core areas of computer science.

Data Science Subject	Computer Science Core Area
Data Mining	Database, Information Systems and Bioinformatics
Data Visualization	Graphics, Visualization and Human-Computer Interaction
Applied Machine Learning	Artificial Intelligence
Cloud Computing	Systems and Networking

The proposed curriculum of courses available for the MCS-DS is attached. With it is attached the MCS program of study, and shows that the proposed MCS-DS curriculum provides sufficient coursework to satisfy the requirements of the MCS degree. Hence the MCS-DS does not represent a new program nor a new degree. Instead it is a selection of courses available in a new online delivery format.

We are well poised to launch the courses for the MCS-DS for Fall 2016. The CS department already has infrastructure, expertise and experience in developing online LMS-based courses from its existing online MCS program. MOOCs have already been developed for the data mining, data visualization and cloud computing courses for the department's certificate programs. The I-School courses are already part of their online masters degree offerings, and will require converting the lectures to MOOC format. The remaining courses will be produced on a timeline so they can be offered in the coming three semesters.

Once launched, the format can readily support the integration of additional CS courses. The MCS-DS supports only a minimum four core areas of CS. The addition of courses in other core areas will enable the later delivery of an MCS without the constraint of the Data Sciences specialization. The MCS-DS supports a Data Science curriculum that includes significant Computer Science element, and could be broadened into a more fundamental Data Science masters degree program that does not require four core areas of Computer Science. Or the MCS-DS might not live up to its potential in which case the MOOCs could continue individually or as part of certificate sequences. The 32-hour coursework masters degree provides as flexible a platform as possible for such evolution. Students can complete the program within a single academic year, allowing the curriculum and course offerings to evolve annually, and students taking longer to complete can be transitioned to adapt to changes in course offerings and delivery formats as needed.

Sincerely,



Rob A. Rutenbar
Bliss Professor and Head, Department of Computer Science

MCS – Data Sciences Specialization

Course	Title	Instructor	Hrs
Data Mining			
<i>Must take four credit hours to satisfy MCS core requirement in databases</i>			
CS 410	Text Information Systems	Zhai	4
CS 412	Introduction to Data Mining	Han/Chang	4
Data Visualization			
<i>Must take Data Visualization course to satisfy MCS core requirement in visualization</i>			
CS 498 DV	Data Visualization	Hart	4
Machine Learning			
<i>Must take Applied Machine Learning course to satisfy MCS core requirement in AI</i>			
CS 498 AML	Applied Machine Learning	Forsyth/Brunner	4
STAT 542	Practical Statistical Learning	Liang/Douglas	4
Cloud Computing			
<i>Must take four credit hours to satisfy MCS core requirement in networking</i>			
CS 498 CCA	Cloud Computing Applications	Campbell/Farivar	4
CS 425 C3	Cloud Computing Concepts	Gupta	4
CS 498 CN a	Cloud Networking	Godfrey/Farivar	4
Statistical Analysis			
STAT 400	Statistics and Probability	Dalpiaz/Zhu/Simpson	4
STAT 420	Methods of Applied Statistics	Unger/Dalpiaz/Zhao	4
STAT 571	Multivariate Analysis	Marden/Douglas/Simpson	4
Information Science			
IS 531	Foundations of Data Curation	Renear	4
IS 590 DCL	Theory & Practice of Data Cleaning	Ludaescher	4
Capstone			
CS 590 DMC	Data Mining Capstone	Zhai	4
CS 590 CC	Cloud Capstone	Gupta/Farivar	4
Total Required for MCS			32
<i>Credit hours required at the 500 level</i>			<i>12</i>

Master of Computer Science

This degree is offered as an on-campus program or via the Internet through the I2CS program.

Breadth Requirement: four different courses, each from a different core area out of the eight core areas. 12-16

Advanced courses – chosen from CS 500 - CS 590 and [CS 598](#); [CS 597](#), or an approved non-CS 500-level course may satisfy 4 credit hours of this requirement. 12

Elective courses (subject to Other Requirements and Conditions below) 4-8

Total Hours 32

Other Requirements and Conditions¹

Other Requirements and Conditions may overlap

A minimum of 24 CS credit hours must be taken from the University of Illinois at Urbana-Champaign campus.

A minimum of 12 500-level credit hours overall.

A maximum of 4 hours of [CS 591](#) and [CS 491](#) may be applied toward the degree.

A grade of B- or higher is required for Breadth course work.

At most, 12 semester credit hours of previous graduate course work may be transferred and applied to the M.C.S. degree requirements and 12 credit hours of non-degree graduate courses completed in the Department of Computer Science at the University of Illinois at Urbana-Champaign campus may be transferred and applied to the M.C.S. degree requirements.

All degree requirements must be completed within three consecutive semesters (only fall and spring semesters are counted).

Off-campus students have 5 years in which to complete this degree.

The minimum program GPA is 3.0.

¹ For additional details and requirements refer to the department's [Graduate Degree Requirements](#) and the [Graduate College Handbook](#).

Breadth Requirement: 12-16 credit hours

Must complete four different courses, each from a different area, from the following eight core areas with a grade of B- or higher.

- *Architecture, Compilers, Parallel Computing:* CS 426, 431, 433, 435, 462, 483, 484, 526, 533, 536
- *Artificial Intelligence:* CS 440, 443, 446, 543, 546, 548, 549
- *Database, Information Systems, Bioinformatics:* CS 410, 411, 412, 466, 511, 512
- *Formal Methods, Programming Languages, Software Engineering:* CS 421, 422, 427, 428, 476, 477, 522, 528, 524, 527, 576
- *Graphics/HCI:* CS 417, 418, 419, 465, 467, 519, 565
- *Systems and Networking (includes real-time systems and security):* CS 414, 423, 424, 425, 438, 439, 461, 463, 523, 525, 538, 541, 545, 563
- *Scientific Computing:* CS 450, 457, 482, 554, 555, 556, 558
- *Theoretical Computer Science:* CS 475, 571, 573, 574, 579, 583

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Department of Statistics
101 Illini Hall
725 South Wright Street
Champaign, IL 61820
USA



February 29, 2016

John C. Hart
Department of Computer Science and
The Graduate College
University of Illinois at Urbana-Champaign

Subject: Support for MCS-DS

Dear Professor Hart,

The Department of Statistics supports the proposed Data Sciences specialization of the MCS degree, using the Coursera MOOC platform for lecture delivery and our existing online educational systems to grade assignments, exams and projects, following the template of the iMBA. In addition, we plan to offer the following courses in this format for use by students in the Data Sciences specialization of the MCS:

STAT 400 a/b – Statistics and Probability I/II
STAT 420 a/b – Methods of Applied Statistics I/II
STAT 448 a/b – Advanced Data Analysis I/II
STAT 542 a/b – Statistical Machine Learning I/II
STAT 571 a/b – Multivariate Analysis I/II

Thank you for the opportunity to review this excellent proposal. I look forward to working with you and colleagues on this program.

Sincerely,

Douglas G. Simpson
Professor and Chair

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Graduate School of Library and Information Science

Library and Information Science Building
501 East Daniel Street
Champaign, IL 61820-6211



February 25, 2016

Professor John Hart
Department of Computer Science
201 N. Goodwin Ave.
Urbana, IL 61801

Dear Professor Hart:

The Graduate School of Library and Information Science supports the proposed Data Sciences specialization of the MCS degree, using the Coursera MOOC platform for lecture delivery and our existing online educational systems to grade assignments, exams and projects, following the template of the iMBA. In addition, we plan to offer the following courses in this format for use by students in the Data Sciences specialization of the MCS:

LIS 531 a/b – Foundations of Data Curation I/II
LIS 590DCL a/b – Data Cleaning I/II

If you have any questions, please don't hesitate to let me know.

Sincerely,

Allen H. Renear
Dean and Professor

UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN SENATE
Urbana Senate Observer
(Final; Information)

SC.16.28 Report on the March 2016 Meeting of the Board of Trustees of the University of Illinois at the Urbana-Champaign Campus

Chairman McMillan convened the meeting at 8:00am with Board Secretary Susan Kies calling the Roll. The BOT immediately went into Executive Session.

Open session resumed at 9:30 am.

The Rip Chords performed the state song. Afterwards, they introduced themselves one by one.

President Killen introduced the University officers, official observers, and representatives of the campuses and the USC who were present.

President Killeen made comments about the progress with the Strategic Plan. The process is well underway and on track to provide a plan at the May meeting of the Board. A draft is available online, and a revised draft will be available soon. The working title is "The Public's University," and there are four "pillars" in the draft, each of which was outlined. Chairman McMillan praised the plan for putting a positive image of the university before the public.

Interim Chancellor Wilson welcomed the Board to campus. She noted that US News announced its rankings of graduate programs yesterday, and that the University did very well. Other developments on campus: Josh Whitman is the new Athletic Director, and Ms. Wilson hopes that Lovie Smith will be approved as the new football coach. Over 3,000 season tickets have sold since the announcement of his possible hire, and there has been a dramatic uptick in alumni giving.

Still more campus highlights: 38,000 applicants to UIUC this year, an all-time high; 5 faculty received Sloan Fellowships, more than most of our peer institutions; and Leah Matchett was named a Marshall Scholar. Ms. Matchett was introduced to the Board.

Vice President Walter Knorr gave a financial update. The University is now in its 255th day without a state budget, and thus without Medicaid payments and MAP grants. Mr. Knorr reviewed legislative efforts to get funding to the university. He reported that the University did a financing refunding with bonds. He reviewed the governor's proposal to reduce the state contribution to the university by 31.5% in FY2016. For FY2017 the governor has proposed recommends 21.8% reduction from FY2015 appropriation. He did propose funding MAP program at the same level as FY2015. The University will visit the Senate Appropriations Committee on March 17. Mr. Knorr reviewed briefly the University's finances, and changes in financing of the campuses and UA over the last several years.

President Killeen commented on the UA preparations for the presentation to the Illinois Senate on March 17.

Committee Reports

Trustee Koritz presented on Governance, Personal, and Ethics Committee. He recommended approval of all appointments on the agenda. At its last meeting the committee had a legislative update and reviewed a report about ethics training at the University, a report about FOIA requests, and a report on the under-reporting of violent crimes on the UIC campus. The last report argued that a media report claiming violent crime was under-reported at UIC was false.

Trustee Koritz also presented Committee on University Health Care System. He encouraged the Board approve the items on the agenda regarding the University Health Care System.

Trustee Cepeda presented on the Audit, Budget, Finance and Facilities Committee. The Committee heard reports from various University administrators at its most recent meeting. He recommended approval of the agenda items put forward by his committee.

Trustee Hasara reported on the Academic and Student Affairs Committee. She recommended the approval of the agenda items put forth by her committee. They also met with and heard a report from the President's Task Force to Prevent Sexual Violence and Misconduct.

Professors Johnson and Ladu presented on running federal research funding of large research units with NSF and NIH grants.

There was no public comment. A union was not allowed to comment because of a policy disallowing unions to comment when their contract is under negotiation.

Voting on agenda items. All items that did not require a roll-call vote were approved by a voice vote.

A motion to approve all roll-call items in a single vote was approved. A vote by roll call was taken. All trustees present voted yes to all items, except that Trustee Montgomery abstained on items 26 and 27.

Vice President Pierre gave an update on the website focusing on the part of the site devoted to academic excellence, and the section in that part devoted to university data, which offers a "report card" on the University.

The BOT the meeting was adjourned at 11:30 am. Trustee McMillan invited members of the public to join the Board at lunch.

Details of the meeting can be found at: <http://www.bot.uillinois.edu/multimedia> and <http://www.trustees.uillinois.edu/trustees/agenda/March-16-2016>

Respectfully Submitted,

David J. O'Brien

**UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN SENATE**
University Senates Conference
(Final; Information)

UC.16.01 Report on the 2015-16 Meetings of the University Senates Conference (USC)

**University Senates Conference
August 26, 2015**

The University Senates Conference (USC) met in Urbana at the President's House.

The session with President Killeen and Vice President Pierre included the following discussions:

- Strategic Planning Process
- Enrollment Management
- Budget
- Plans to Review the University Administration Officers

USC met with Maureen Parks and Jami Painter from UA HR to discuss the proposed background check policy for new hires. USC provided suggestions and voiced concerns.

The minutes were approved.

The USC business agenda included the following items:

- Planning for the USC retreat, including retreat topics.
- Follow-up discussion on background checks that resulted in a statement to be transmitted to the President.

**University Senates Conference
September 21, 2015**

The University Senates Conference (USC) met in Champaign at the I Hotel Conference Center.

The session with President Killeen and Vice President Pierre included the following discussions:

- Budget impasse and an update on the University's response
- Plans for more cooperation between the Alumni Association and UI Foundation
- Strategic Planning Process
- Implementation of the University Administration Review
- Background Check Policy

The minutes were approved.

The USC business agenda included the following items:

- Update on the status of the overall revisions to the *Statutes* and *General Rules*.
- Update on Background Check Policy.
- Report from members participating in the President's Executive Leadership Program.
- Update from campuses on proposed policy language for classified research.
- Salary planning, with a focus on campus latitude.

University Senates Conference November 6, 2015

The University Senates Conference (USC) met in Springfield at the Public Affairs Center.

The session with President Killeen, Vice President Knorr, and Vice President Pierre included the following discussions:

- Efforts to advocate for a higher education budget in Springfield
- Budget impact study
- Moving of funds from UA to student programs
- State budget and the University's budget rating
- Creating a faculty advisory group to Vice President Knorr
- Vice President Pierre's working group to address concerns with the Background Check Policy

The minutes and the classification of senate minutes were approved.

The USC business agenda included the following items:

- Committee of the Whole discussion on the Changing Land-Grant Mission.
- Cross-campus collaborations.
- Planning of the USC presentations to the Board of Trustees

University Senates Conference December 10, 2015

The University Senates Conference (USC) met in Chicago at Student Center West.

The session with President Killeen, Vice President Knorr, and Vice President Pierre included the following discussions:

- Update on the Strategic Planning Process
- Increasing efforts to encourage state government to solve the budget impasse
- Update on implementation of University Administration review and budget study recommendations
- Report on the VPAA working group on the Background Check Policy

USC met with UIC Chancellor Amiridis and discussed the following issues:

- Transition from having a Vice President for Health Affairs to having a Vice Chancellor for Health Affairs
- Cross-campus collaborations
- The changing campus environment

The minutes and the classification of senate minutes were approved.

The USC business agenda included the following items:

- Appointment of USC members to external groups.
- Updates from the campuses on the proposed revisions to the Nondiscrimination Statement.
- Process for moving forward on the Open Access to Research Articles policy.
- Discussion of the revised version of the Background Check Policy and the decision to move the document forward along with a list of points to the President.
- Discussion of recommendations regarding the strategic planning document that USC plans to send to the strategic planning steering committee.

University Senates Conference January 25, 2016

The University Senates Conference (USC) met by videoconference from the three campuses.

The session with President Killeen and Vice President Pierre included the following discussions:

- Update on the budget and the impact the impasse is having on other public universities
- Discussion of the U of I 2021 Initiative, which would create a compact with the state where the University would guarantee progress in certain areas and cost containment, and the state would guarantee a predictable budget and offer some regulatory relief
- Update on the Strategic Plan
- Vice President Pierre's intentions to create a committee to review the academic program approval process
- Plans for a comprehensive look at enrollment management for the next five years (VP Pierre's Enrollment Management Policy Council)
- Update on the hospital and medical enterprise

The minutes and the classification of senate minutes were approved.

The USC business agenda included the following items:

- Discussion of the USC recommendations regarding the Strategic Planning document.
- Discussion of future topics for the USC presentations to the Board of Trustees.
- Update on the status of moving forward on the overall revisions to the *Statutes* and *General Rules*.
- Updates from the campuses on the proposed revisions to the Nondiscrimination Statement.

**University Senates Conference
February 22, 2016**

The University Senates Conference (USC) met in Chicago at Student Center West.

The session with President Killeen and Vice President Pierre included the following discussions:

- Update on the budget and the U of I 2021 Initiative
- Enrollment Management
- Efforts for procurement relief; both internal and from the state
- Update on the Strategic Planning Process
- Difficulties of hiring in a timely manner

USC met with Vice President Schook and discussed the following issues:

- Cross-campus collaborations
- Attaining resources for research funding; competing for grants
- Increase of multi-investigator and cross-discipline projects (large collaboratives)
- Concerns with the university-wide policy on classified research
- UI Labs and digital manufacturing
- Ways to manage alumni relations and development

The minutes and the classification of senate minutes were approved.

The USC business agenda included the following items:

- Discussion of the USC recommendations regarding the Strategic Planning document.
- Faculty involvement in metric decisions of the U of I 2021 Initiative.
- Discussion of topics for the USC presentations to the Board of Trustees.
- Approval of a statement regarding the Policy on Open Access to Research Articles.

The USC minutes and agendas can be found at:

<http://www.usc.uillinois.edu/documents>

The USC membership list can be found at:

<http://www.usc.uillinois.edu/membership>

Respectfully submitted,

Matthew B. Wheeler

USC Representative to the Senate Executive Committee