Minutes -- CSM Senate Meeting

Date: Monday, March 10th, 2014
Time: 2:30pm - 4:00pm
Location: CSM Dean's Office Conference Room

Members in attendance:
Catalin Zara, Mathematics, Chair
Chandra Yelleswarapu, Physics, Secretary
Manickam Sugumaran, Biology
Bob Wilson, Computer Science
Robert Stevenson, Biology
Michelle Foster, Chemistry
Juanita Urban-Rich, EEOS

Others in attendance:
Marietta Schwartz, Associate Dean, CSM
Greg Sun, Physics Department
Filip Cuckov, Engineering Program, Physics Department

Meeting was called to order at 2:35 pm.

1. Approval of the February 10, 2014 meeting minutes.

The motion to approve the minutes of February 10, 2014 was seconded and approved unanimously.

2. New business:

Items 2a and 2b were considered together.

Motion: To pre-approve the addition of CS 438 - Applied Machine Learning.
Rationale: Students who know how to do intelligent data analysis on real-world data are in critical shortage. This course centers on training undergraduate and graduate students who want to learn hands-on skills of applying machine learning algorithms to real-world applications.

Motion: To approve the addition of CS 638 - Applied Machine Learning.
**Rationale:** Students who know how to do intelligent data analysis in real-world data are in critical shortage. Such applications require researchers who are familiar with data mining and machine learning skills in computer science and real-world problems. This course centers on training undergraduate and graduate students who want to learn hands-on skills applying machine learning algorithms to real-world applications.

Clarifications on the projects related to these two courses were requested from the instructor (Ding) before the meeting. The response was that, in addition to the requirements for CS 438 students, the CS 638 students will have a second, more advanced project, such as implementing a method published in a research paper and applying the method to a real-world problem.

The motion to pre-approve the new course CS 438 was seconded and approved unanimously. The proposal will be sent to the Academic Affairs Committee.

The motion to approve the new course CS 638 was seconded and approved unanimously. Pending approval from the CSM Dean's Office, the proposal will be sent to the Graduate Studies Committee of the Faculty Council.

2c. **Addition of ENGIN 351 - Fundamentals of Semi-Conductor Devices.**

**Motion:** To approve the addition of ENGIN 351 - Fundamentals of Semi-Conductor Devices.

**Rationale:** This is an elective course with three credits to be taken by junior/senior level students in the BS ECE program. It serves EE students to meet the requirement of elective courses in the Electrical Engineering curriculum.

The proposal has been conditionally pre-approved at the Feb 10, 2014 meeting, pending clarifications on prerequisites, and sent to the AAC. The AAC approved the proposal and clarifications were received at the meeting.

The motion to approve the addition of ENGIN 351 - Fundamentals of Semi-Conductor Devices was seconded and approved unanimously. Pending approval from the CSM Dean's Office, the proposal will be sent to the Provost's Office.

Proposals 2d-2g were considered together.

2d. **Addition of ENGIN 341 - Advanced Digital Design.**

**Motion:** To pre-approve the addition of ENGIN 341 - Advanced Digital Design.

**Rationale:** This is a newly developed course for the new Computer Engineering major. It will be a required core course for computer engineering majors with three credits to be taken by junior/senior level students in the BS ECE program. It serves CE students to meet the requirement for obtaining a degree in CE.
2e. **Addition of ENGIN 346 - Microcontrollers.**

**Motion:** To pre-approve the addition of ENGIN 346 - Microcontrollers.

**Rationale:** This is a newly developed course for the new Computer Engineering major. It will be a required core course for computer engineering majors with three credits to be taken by junior/senior level students in the BS ECE program. It serves CE students to meet the requirement for obtaining a degree in CE.

2f. **Addition of ENGIN 441 - Embedded Systems.**

**Motion:** To pre-approve the addition of ENGIN 441 - Embedded Systems.

**Rationale:** This is a newly developed course for the new Computer Engineering major. It will be a specialization course for computer engineering majors with three credits to be taken by senior level students in the BS ECE program. It serves CE students to meet the requirement for obtaining a degree in CE.

2g. **Addition of ENGIN 446 - Computer Architecture Design.**

**Motion:** To pre-approve the addition of ENGIN 446 - Computer Architecture Design.

**Rationale:** This is a newly developed course for the new Computer Engineering major. It will be a required core course for computer engineering majors with three credits to be taken by senior level students in the BS ECE program. It serves CE students to meet the requirement for obtaining a degree in CE.

A motion to pre-approve the new courses ENGIN 341 - Advanced Digital Design, ENGIN 346 - Microcontrollers, ENGIN 441 - Embedded Systems, and ENGIN 446 - Computer Architecture Design was seconded and approved unanimously. The proposals will be sent to the Academic Affairs Committee.

Items 2h01-2h15 were considered together.

2h01. **Addition of UPCD 600 - History and Theory of Urban Planning.**

**Motion:** To approve the addition of UPCD 600 - History and Theory of Urban Planning.

**Rationale:** To support the Urban Planning and Community MS degree program.

2h02. **Addition of UPCD 611 - The City in History.**

**Motion:** To approve the addition of UPCD 611 - The City in History.

**Rationale:** To support the Urban Planning and Community MS degree program.

2h03. **Addition of UPCD 620 - Analytic Methods for Urban Planning and Community Development.**

**Motion:** To approve the addition of UPCD 620 - Analytic Methods for Urban Planning and Community Development.

**Rationale:** To support the Urban Planning and Community MS degree program.

2h04. **Addition of UPCD 622 - Citizen Participation and Right to the City.**
Motion: To approve the addition of UPCD 622 - Citizen Participation and Right to the City.
Rationale: This is a required course in the Urban Planning and Community Development master's degree program.

2h05. Addition of UPCD 630 - Urban Information & Institutional Systems.
Motion: To approve the addition of UPCD 630 - Urban Information & Institutional Systems.
Rationale: To support the Urban Planning and Community MS degree program.

2h06. Addition of UPCD 631 - Land Use Controls.
Motion: To approve the addition of UPCD 631 - Land Use Controls.
Rationale: To support the Urban Planning and Community MS degree program.

2h07. Addition of UPCD 632 - Law Ethics and Professional Practice.
Motion: To approve the addition of UPCD 632 - Law Ethics and Professional Practice.
Rationale: To support the Urban Planning and Community MS degree program.

2h08. Addition of UPCD 662 - Citizen Participation in Community Development.
Motion: To approve the addition of UPCD 662 - Citizen Participation in Community Development.
Rationale: To support the Urban Planning and Community MS degree program.

2h09. Addition of UPCD 667 - Environmental Planning and Impact Assessment.
Motion: To approve the addition of UPCD 667 - Environmental Planning and Impact Assessment.
Rationale: To support the Urban Planning and Community MS degree program.

2h10. Addition of UPCD 701 - Urban and Regional Environmental Planning.
Motion: To approve the addition of UPCD 701 - Urban and Regional Environmental Planning.
Rationale: To support the Urban Planning and Community MS degree program.

2h11. Addition of UPCD 720 - Community Development for Urban Planners.
Motion: To approve the addition of UPCD 720 - Community Development for Urban Planners.
Rationale: To support the Urban Planning and Community MS degree program.

2h12. Addition of UPCD 721 - Social-Class-Multicultural Goals in Community Development.
Motion: To approve the addition of UPCD 721 - Social-Class-Multicultural Goals in Community Development.
Rationale: To support the Urban Planning and Community MS degree program.

Motion: To approve the addition of UPCD 724 - Urban Economics Housing Policies.
Rationale: To support the Urban Planning and Community MS degree program.
2h14. **Addition of UPCD 725 - Contemporary Community Development.**

**Motion:** To approve the addition of UPCD 725 - Contemporary Community Development.

**Rationale:** To support the Urban Planning and Community Development MS degree program.

2h15. **Addition of UPCD 750 - Planning Studio.**

**Motion:** To approve the addition of UPCD 750 - Planning Studio.

**Rationale:** To support the Urban Planning and Community Development MS degree program.

The UPCD courses are related to the UPCD MS Program. The CSM Senate approved the UPCD MS Phase II proposal at the October 21, 2103 meeting. At that time the CSM Senate was not asked to approve the planned new courses related to the UPCD degree.

A motion to approve the new courses UPCD 600, 611, 620, 622, 630, 631, 632, 662, 667, 701, 720, 721, 724, 725, and 750 was seconded and approved unanimously. Pending approval from the CSM Dean's Office, the proposals will be sent to the Graduate Studies Committee of the Faculty Council.

Proposals 2i and 2j were considered together.

2i. **Addition of EEOS 603, Coasts and Communities I.**

**Motion:** To approve the addition of EEOS 603 - Coasts and Communities I.

**Rationale:** This course is designed to meet the core course requirements of the National Science Foundation-funded IGERT program which provides transdisciplinary training to IGERT fellows who are PhD students in Environmental Science, Environmental Biology, Global Governance and Human Security, and Business Administration. This course will also fulfill a core course requirement of MS and PhD students in the Environmental Sciences graduate program.

2j. **Addition of EEOS 604 - Coasts and Communities II.**

**Motion:** To approve the addition of EEOS 604 - Coasts and Communities II.

**Rationale:** This course is designed to meet the core course requirements of the National Science Foundation-funded IGERT program which provides transdisciplinary training to IGERT fellows who are PhD students in Environmental Science, Environmental Biology, Global Governance and Human Security, and Business Administration. This course will also fulfill a core course requirement of MS and PhD students in the Environmental Sciences graduate program.

The motion to approve the new courses, EEOS 603 - Coasts and Communities I and EEOS 604 - Coasts and Communities II, was seconded and approved unanimously. Pending approval from the CSM Dean's Office, the proposals will be sent to the Graduate Studies
Committee of the Faculty Council.

Items 2k1-2k4 were considered together.

2k1. Revision of EEOS MS - Thesis Track requirements. Changes in course requirements.  
Motion: To approve the changes in core course requirements for EEOS MS - Thesis Track.  
Rationale: Aligning the MS and PhD curriculum with the degree name and goals and distinguishing the program from our Marine Science and Technology programs. Currently the course requirements for the MS and PhD in Environmental Sciences are identical to the MS and PhD in Marine Science and Technology curriculum. With the elimination of the Intercampus School for Marine Science and its conversion to the Intercampus Marine Science and Technology Graduate Program the School faculty voted to strategically align the Environmental Sciences graduate program curriculum with the strengths in faculty expertise in the fields. By doing so we will be able to better support recruitment and graduation in both programs. The changes to the MS and PhD course requirements for the Environmental Sciences programs are also aligned with the curriculum of the new NSF-supported IGERT program which will also support facilitation of transdisciplinary environmental training. We will continue to offer the courses required for the MS and PhD in Marine Science and Technology both in person (they are elective courses for the Environmental Sciences MS and PhD) and through distance learning in collaboration with our partners at UMass Dartmouth.

2k2. Revision of EEOS MS - Non-Thesis Track requirements. Changes in course requirements.  
Motion: To approve the changes in core course requirements for EEOS MS - Non-Thesis Track.  
Rationale: See rationale for 2k1.

2k3. Revision of EEOS MS - PSM Track requirements. Changes in course requirements.  
Motion: To approve the changes in core course requirements for EEOS MS - PSM Track.  
Rationale: See rationale for 2k1.

2k4. Revision of EEOS Ph.D. requirements. Changes in course requirements.  
Motion: To approve the changes in core course requirements for EEOS Ph.D.  
Rationale: See rationale for 2k1.

At the May 20th, 2013 meeting, the CSM Senate approved EEOS 600 - Responsible Conduct in Research, with the rationale that the course will be a required course for all EEOS graduate programs. The CSM Senate requested clarification on the role of EEOS 600 in the proposed new requirements. To expedite the process, the CSM Senate agreed to voting-by-email on the proposed changes, if the clarification was received in a timely manner.

3. Dean's announcements
Associate Dean Schwartz provided an update on the transformation of the Engineering Program to the Engineering Department. The Engineering program will be separated from the Physics Department, and a new Engineering Department will be created starting next fiscal year, July 1, 2014. The transformation doesn't have to go through the CSM Senate, as it is considered an administrative action and not an academic action.

4. Other business.

No other business.

5. Adjourn.

Motion to adjourn was seconded and approved unanimously. Meeting was adjourned at 3:45 pm.