Minutes - Oct 20, 2014 - CSM Senate Meeting

Date: Monday, October 20th, 2014
Time: 2:30pm - 4:00pm
Location: CSM Dean's Office Conference Room

Members in attendance:

- Catalin Zara, Mathematics, Chair
- Chandra Yelleswarapu, Physics, Secretary
- Ping Chen, Engineering
- Juanita Urban-Rich, School for the Environment
- Wei Ding, Computer Science
- Robert Stevenson, Biology
- Jason Green, Chemistry (for Michelle Foster)

Members absent:

- Manickam Sugumaran, Biology

Others in attendance:

- Andrew Grossovsky, Dean, CSM (for part of the meeting)
- Marietta Schwartz, Associate Dean, CSM
- Bill Hager, Associate Dean, CSM
- Walter Buchwald, Engineering
- Kiersten Kerby-Patel, Engineering

Meeting was called to order at 2:32 pm.

1. Approval of the September 15, 2014 meeting minutes.
   A motion to approve the September 15th, 2014 meeting minutes was seconded and approved unanimously.

2. Announcements

   Dean's Announcements: The Ph.D. in Applied Physics received final approval from the Board of Higher Education. The proposals for Integrative Biosciences and for Computational Science Ph. D. programs are under active development. Many CSM departments are in the process of hiring new faculty.

   Chair's Announcements: The proposals for cross-listing 11 courses for the UPCD program have been sent to the Graduate Studies Committee. The change in pre-requisites for ENGIN/MATH 211L has been approved by the Dean's Office and sent to the Provost's Office. The Academic Affairs Committee had minor changes to EEOS 109 - Cultural Geography. Once those changes are implemented, EEOS 109 will be approved. Changes to EEOS 488 - Advanced Marine Geographic
Information Systems are still pending.

3. **New business**

   The proposals for ENGIN 332 and ENGIN 435 were considered together, after the proposal for ENGIN 352.

3a. **Addition of ENGIN 332 - Fields and Waves II.**  
**Motion:** To pre-approve the addition of ENGIN 332 - Fields and Waves II.  
**Rationale:** This is a 3-credit elective course to be taken by junior/senior level students in the BS EE program. It meets the requirement of elective courses to be taken as part of the Electrical Engineering major and is the foundational class of the planned RF/Microwave subject area.

3b. **Addition of ENGIN 352 -Semiconductor Device Design, Simulation and Fabrication.**  
**Motion:** To pre-approve the addition of ENGIN 352 -Semiconductor Device Design, Simulation and Fabrication.  
**Rationale:** This is an elective course with three credits to be taken by junior/senior level students in the BS ECE program. It serves ECE students to meet the requirement of elective courses in the Electrical Engineering curriculum.  
   
   A motion to pre-approve the addition of ENGIN 352 as a lecture/laboratory course was seconded and approved unanimously. The proposal will be sent to the Academic Affairs Committee.

3c. **Addition of ENGIN 435 - Antenna Design.**  
**Motion:** To pre-approve the addition of ENGIN 435 - Antenna Design.  
**Rationale:** The proposed course is an introduction to antenna design and applications. It will serve as part of the microwave/RF engineering subject area of the EE major. The subject matter covered in this course is applicable to communications and remote sensing applications, among other areas.  
   
   A motion to pre-approve the addition of ENGIN 332 and ENGIN 435 was seconded and approved unanimously. The proposals will be sent to the Academic Affairs Committee.

3d. **Addition of ENGIN 478 - Independent Study.**  
**Motion:** To pre-approve the addition of ENGIN 478 - Independent Study.  
**Rationale:** Independent studies provide students with opportunities to explore their interests, gain critical research experience, and customize their skill set for their future career. The number of credit hours can vary from 1 to 3 counted towards elective.  
   
   A motion to pre-approve the addition of ENGIN 478 was seconded and approved unanimously. The proposal will be sent to the Academic Affairs Committee.

3e. **Addition of ENGIN 480 - Special Topics.**  
**Motion:** To pre-approve the addition of ENGIN 480 - Special Study.  
**Rationale:** Curriculum renovation is critical for undergraduate Engineering education and is usually a continuous process. The special topics course will serve as a platform for Engineering faculty to introduce new topics and areas to our programs following current academic and industry development.
A motion to pre-approve the addition of ENGIN 480 was seconded and approved unanimously, pending changes in the Repeat Policy. Namely, ENGIN 480 will not have a limit on the number of repeats, but only two ENGIN 480 instances, up to six credits, will count towards an ENGIN degree.

Motion: To pre-approve the addition of MATH 445 - Probability Models.
Rationale: Probability modeling has important applications in computer science, engineering, economics, and biology and has been used for market research, optimization problems, machine learning, and biomodeling. Many other universities offer this course on a regular basis too.

A motion to pre-approve the addition of MATH 445 was seconded and approved unanimously, pending changes in the course number to MATH 447, in order to be consistent with the proposed graduate version, MATH 647.

4. Dean's announcements.
   Please see item 2.

5. Other business.
   There were no additional items.

6. Adjourn.
   A motion to adjourn was seconded and approved unanimously. The meeting was adjourned at 3:45 pm.