The University of Vermont
FACULTY SENATE

Curricular Affairs Committee of the Faculty Senate
Minutes

Thursday, December 7, 2017, 4:15 – 6:15 pm

Present: Professors Almstead, Cepeda-Benito, Dickinson, Everse, Garrison, Goodwin, Hazelrigg, Hughes, Ivakhiv, Kasser, Kervick, Marshall, Monsen, Nichols, Rosebush, Rowe*, Sisk, Strickler, Tomas, Ultsch, SGA Representative McHugh, GSS Representative Marcotte

Absent: Professor Dale, Wojewoda

Guests: Cathy Paris, Brian Reed, Cindy Forehand*, Beth Taylor-Nolan

---

Chair Alstead called the meeting to order at 4:18 pm in 427A Waterman.

I. **Approval of the Minutes**. Steven Everse moved to accept the minutes of the November 2, 2017 meeting as written. The motion was seconded and carried, with two abstaining.

II. **Chairperson's Remarks**

Laura Almstead alerted CAC members that there are several new program proposals that will need subcommittees for review as well as quite a few APRs that are scheduled for the spring that will also need review subcommittees. She thanked committee members for their hard work, and recognized the significant time commitment involved with being a CAC member.

III. Reports:

A. **PhD in Complex Systems and Data Science, CEMS.** J. Dickinson and Susan Kasser have reviewed and recommend approval of the proposal for a new PhD in Complex Systems and Data Science submitted by the College of Engineering and Mathematical Sciences in conjunction with the Graduate College. The central aim of the PhD in Complex Systems and Data Science is to train emerging data scientists to understand and solve data-rich, complex systems problems spanning many disciplines comprised of natural, technological, and social dimensions. The proposers offer a strong rationale for the degree and need to prepare graduates in the discipline.

The PhD in CSDS builds an independent research framework into the current CSDS Master's degree. While the program will be housed in CEMS, the training allows students to choose projects from a wide variety of disciplines. All needed

courses have already been established and the faculty clearly have the expertise and capacity to support the new PhD and its students.
The subcommittee found this to be a strong, clearly articulated proposal that should enable CEMS to prepare a segment of talented students for careers in complex systems and data science related fields. It is the opinion of the subcommittee that the CAC should vote to support the PhD degree program in Complex Systems and Data Science (CSDS). No concerns were raised during the public comment period, and any questions raised by the subcommittee have been sufficiently addressed.
Motion: Laura Almstead called a vote to approve the proposed PhD in Complex Systems and Data Science in the College of Engineering and Mathematical Sciences in conjunction with the Graduate College
Vote: 19 Approve, 0 Oppose, 0 Abstain

B. **MS in Engineering Management, CEMS/Graduate College**. Jeffrey Marshall and Aaron Nichols reviewed and recommend approval of a proposal for a new tagged degree program, Master of Science in Engineering Management (major code: MSEM), submitted by the Graduate College in conjunction with the College of Engineering and Mathematical Sciences, and the Grossman School of Business. The Master of Science in Engineering Management (MS in EM) will be a professional degree available as a regular coursework-only MS or as a project-based MS. It will include an Accelerated Master's Program (AMP) option for undergraduates majoring in Biomedical Engineering, Civil Engineering, Electrical Engineering, Environmental Engineering, and Mechanical Engineering. The proposed program combines business management skills with engineering management. It is envisioned that up to 20 full and part-time students with engineering backgrounds will enroll. Spanning the engineering and business management fields, Engineering Management is the art and science of planning, organizing, allocating resources, and directing and controlling activities that have a technological component. The master's program is designed for students who intend to pursue careers related to the management of engineering, largely in private sector industry or government service. Specific objectives include training in the management of engineering, statistical quality control for manufacturing and product delivery, and engineering management information systems.
CEMS already offers a BS in Engineering Management, and the MS program will allow these students, as well as others interested in engineering management, to further their studies in this field. Although the BS program is not particularly popular at UVM or other schools, MS in EM programs nationwide are in high demand. The program will rely on existing courses in CEMS and GSB, with only one new course, Engineering Management 201, being added as a required course. The program aligns with the current mission of UVM in a way that increases STEM education across campus.
It was confirmed that the Dean of CEMS was committing the funds required for years one and two before the program is projected to be revenue-generating and

that the proposers do not intend in differentiate between the coursework-only and project-based tracks on student's transcripts.
Motion: Laura Almstead called a vote to approve the proposed new Master of Science in Engineering Management submitted by the College of Engineering and Mathematical Sciences in conjunction with the Graduate College and the Grossman School of Business.
Vote: 19 Approve, 0 Oppose, 2 Abstain

C. **Major and Minor in Health & Society, CAS.** Rosemary Dale and Rosi Rosebush reviewed and recommend approval of a proposed Health and Society (HSOC) interdisciplinary major and minor in the College of Arts and Science. These two programs were described in a single proposal because the overarching goals and learning objectives are the same for the major and minor, with the major offering a more in-depth educational experience than the minor. The major and the minor requirements are clear and accessible based on regularity of offering, availability of faculty and absence of significant prereq barriers. There is currently adequate support for the program from all areas of UVM. There is a clear illustration of the differences between the newly approved HSCI (Health Sciences Major) and the HSOC (Health and Society Major). The first program having roots in the basic sciences and the second having roots in the social sciences. An active applicant pool is projected. It appears clear that the pool will be drawn in large part from current UVM students. Assuming a stagnant number of undergraduate students, this calls concern to the programs or courses that may see a decline of student credit hours with the student migration to HSOC.
The program is a high-quality offering, drawing on the skills of current and projected faculty and preparing graduates to undertake current careers and careers envisioned in the upcoming decades.
Motion: Laura Almstead called a vote to approve the proposed Health and Society (HSOC) interdisciplinary major and minor in the College of Arts and Science
Vote: 22 Approve, 0 Oppose, 0 Abstain

IV. Other Business

A. **Uncontested termination of the CGS in Sustainable Transportation Systems and Planning.** The Graduate College requests that the Certificate of Graduate Study in Sustainable Transportation Systems and Planning (CGS-STSP) be eliminated. This request was initiated by the CG S-STSP Program Coordinator, Professor Glenn McRae, and is uncontested. There are no active students in the program. It was confirmed that the new CGS mentioned in the termination request memo was fully developed, and a proposal expected soon.
Motion: Laura Almstead moved to approve the proposal to terminate (uncontested) the Certificate of Graduate Study in Sustainable Transportation Systems.
Vote: **22** Approve, 0 Oppose, 0 Abstain

B. **New course prefix request and course re-numbering Doctor of Physical Therapy Program.** The Department of Rehabilitation and Movement Science in the College of Nursing and Health Sciences submitted a request to change the designator of the Doctor of Physical Therapy Program from PT to DPT "Doctor Physical Therapy". It was noted that it was not clear that the degree and course offerings were at the doctoral level. The program hopes that changing the designator to DPT will in part help to clarify this question in the future for our student transcripts. The Registrar's office confirmed that the designator DPT is not being used as a subject code and is available for use. In addition to the designator change, the program is taking other steps to more clearly illustrate the course level of the programs requirements, such as changing to 400-level course numbering and modifying the curriculum within their courses. Re-numbering does not require a vote of the CAC.
Motion: Sue Kasser moved to approve the new course prefix and course re-numbering for Doctor of Physical Therapy program. The motion was seconded and carried.
Vote: 22 Approve, 0 Oppose, 0 Abstain

C. **New concentration in Anthropology in Archaeology and Heritage Management.** The Department of Anthropology in the College of Arts and Sciences submitted a request to add a formal concentration in Archaeology and Heritage Management to the existing Anthropology major. The new concentration was developed in response to a recognition of student interest in this area and encouragement from external evaluators during the department's Academic Program Review.
Motion: Steven Everse moved to approve the new concentration in Archaeology and Heritage Management in the Anthropology Department in the College of Arts and Sciences. The motion was seconded and carried.
Vote: 21 Approve, 0 Oppose, 1 Abstain

D. **New program proposal coversheet revisions and renaming of new program guidelines documents.** The coversheet that accompanies proposals for new academic programs or research endeavors has been revised to update and clarify the document with the goals of making it easier for those developing new programs to complete and more useful to the Registrar's office. The names of the guidelines documents for new programs, substantial revisions to existing programs, and terminations of existing programs have also been revised to make them more succinct.
    - Coversheet for Proposal for a New Academic Program or Research Endeavor
    - Proposal for a New Academic Program or Research Endeavor
    - Proposal to Substantially Revise an Existing Academic Program or Research Endeavor
    - Policy Clarification: Substantial Revisions to a New Academic Program or Research Endeavor
    - Proposal to Terminate an Academic Program or Research Endeavor

Motion: Laura Almstead moved to approve the
Vote: **22** Approve, 0 Oppose, 0 Abstain

V. APR Reports: (none at this time)

VI. New Business (none at this time)

VII. Adjournment. Ellen Rowe moved to adjourn at 5:16 p.m. The motion was seconded and carried.

*via phone