CURRICULUM REVIEW COUNCIL
August 12, 2025
Electronic Email Poll
Minutes

Members voting for approval:
Dr. Gregory Bouck
Dr. Jackie Calhoun
Dr. Kari Cook
Dr. Christopher Gilson
Dr. Myla Landry
Ms. Megan Lowe
Ms. McKenna (Rachel) Marsh
Dr. Vianka Miranda
Ms. Madysen Morgan
Ms. Barbara Prescott
Dr. Thomas Reynolds
Ms. Juanita Self
Dr. Frank Serio

I. Department of Hospitality Management & Tourism

A. Add the following new courses for undergraduate credit:

- EVNT 1000 – Introduction to Event Management (3-3-0)
- EVNT 2000 – Exhibition Management (3-3-0)
- EVNT 2050 – Event Management Practicum (3-2-1)
- EVNT 3000 – Conference and Meeting Planning (3-3-0)
- HMT 4300 – Hospitality Industry Financial Accounting (3-3-0)

B. Make the following undergraduate course changes:
- HMT 4250 – Change course title, change course description.

C. Add the following new concentration:
- Event Management Concentration (135E)
  Event Management Concentration (135E): Event Management 1000, 2000, 2050, 3000, Marketing 2200 or 3230 or 3300 or 3820, Hospitality Management and tourism 4250, 4300 or 4110, Unified Public Safety Administration 4700.

Action: All items approved with unanimous vote of the council. No opposition.

II. School of Social Sciences & Applied Programs

A. Delete the following concentration:
- Creole Studies Concentration (734E)

Action: Approved with the unanimous vote of the council. No opposition.

III. School of STEM

A. Add the following new courses for graduate credit:
- STEM 5000 – Python for Machine Learning and Data Analysis (3-3-0)
- STEM 5010 – Machine Learning for Science and Engineering (3-3-0)
- STEM 5020 – Deep Learning: Neural Networks and Architectures (3-3-0)
- STEM 5030 – Introduction to Natural Language Processing (3-3-0)
- STEM 5040 – Advanced Deep Learning (3-3-0)
- STEM 5050 – Advanced NLP and LLM (3-3-0)
- STEM 5060 – Responsible AI Applications (3-3-0)
- STEM 5100 – Math Methods in the Sciences (3-3-0)

- STEM 5110 – Advanced Instrumental Analysis (3-1-2)
- STEM 5120 – Environmental Law and Policy (3-3-0)
- STEM 5130 – Advanced Environmental Chemistry (3-3-0)
- STEM 5140 – Environmental Microbiology (3-3-0)
- STEM 5200 – Introduction to Material Science and Engineering (3-3-0)
- STEM 5210 – Biomaterials in Healthcare: Engineering and Market (3-3-0)
- STEM 5230 – Computational Condensed Matter (3-3-0)
- STEM 5300 – Principles of integrated Biology (3-3-0)
- STEM 5310 – Introduction to Data Science (3-3-0)
- STEM 5320 – Applied Genomics (3-3-0)
- STEM 5330 – Applied Parasitology (3-0-3)
- STEM 5340 – Applied Principles of Wildlife Disease (3-2-2)
- STEM 5350 – Evolutionary and Ecological Applications (3-3-0)
- STEM 5360 – Molecular and Biochemistry Applications (3-3-0)
- STEM 5370 – PCR Techniques (3-0-3)
- STEM 5400 – Automation and Control (3-3-2)
- STEM 5410 – Power Systems and Protection (3-3-0)
- STEM 5420 – Supply Chain Management (3-3-0)
- STEM 5430 – Advanced Quality Operations (3-3-0)
- STEM 5440 – Decision Analysis (3-3-0)
- STEM 5450 – Operations Management (3-3-0)
- STEM 5960 – Research Methods (3-3-0)
- STEM 5970 – Statistical Methods for STEM Applications (3-3-0)
- STEM 5980 – Research Project or Thesis (1 to 6-0-0)
- STEM 5990 – Graduate Seminar (1-1-0)

B. Add the following new Master of Science degree program in Science, Technology, Engineering and Mathematics (STEM) (593) **(pending Board of Regents approval).**

Curriculum Layout:

Admission Requirements

- Bachelor's degree from a recognized accredited college/university in a STEM or STEM adjacent field of study.
- Official transcripts from all college/universities attended.
- Must have completed 3 hrs. of introductory statistics equivalent to MATH 2050, BIOL 3060, IET 2040 with a "C" or higher.
- Must have completed 3 hrs. of introductory calculus equivalent to MATH 2010 with a "C" or higher.
- One of the following:
    - Minimum undergraduate GPA of 4.0 - 3.5 (No GRE is required).
    - Minimum undergraduate GPA of 3.4 - 3.0 and two letters of recommendation from individuals that are in a STEM or STEM adjacent career that can attest to the individual's academic background, work ethic, and research or professional experience (No GRE required).
    - Minimum undergraduate GPA of 2.9 - 2.5 and a GRE of 280 (combined verbal and quantitative) is required.
- A written commitment from a graduate faculty member within STEM to serve as your major professor.

Conditional Admission

Conditional Admission to the Science, Technology, Engineering, and Mathematics (STEM) program may be granted for the first nine semester hours if the student is missing one of the following:

- Missing introductory calculus or statistics requirement. The student can take the introductory calculus and/or statistic courses listed above along with their first nine semester hours of STEM course, upon completion of the introductory calculus and statistic courses with a "C" or higher their status will change to regular admission.
- Missing letters of recommendation or GRE score. If the student completes at least nine hours with a grade of "B" or better in approved graduate level STEM classes, then their status will change to regular admission.
- Missing written commitment from a graduate STEM faculty member. The student must identify a graduate faculty member in STEM to serve as their mentor within the first nine semester course hours and are encouraged to

meet with different professors and discuss various projects available in the School of STEM. Upon receiving a written commitment from the graduate faculty member their status will change to regular admissions.

Degree requirements: Students in the M.S. in STEM must fulfill the requirements listed below (30 hours).

A. Core Classes: 12 semester hours: STEM 5960, 5970, 5980, 5990.
B. Concentration Classes: Must select one of the following concentrations and complete 18 semester hours:
    a. Artificial Intelligence and Data Science (593A): Take STEM 5000, 5010, 5020, 5030, 5040, and pick one STEM 5050 or STEM 5060.
    b. Environmental Science (593B): Take STEM 5100, 5110, 5120, 5130, 5140, Select three credit hours from STEM 5300, 5310, 5320, 5330, 5340, 5350, 5360, or 5370.
    c. Material Science (593C): Take STEM 5000, 5110, 5200, 5210, 5230, and IET 4730.
    d. Integrative Biology (593D): Take STEM 5300 and 5310; select 12 credit hours of electives from STEM 5140, 5320, 5330, 5340, 5350, 5360, or 5370.
    e. Applied Engineering (593E): Take STEM 5400, 5410, 5420, 5430, 5440, 5450.
C. Completion of thesis or project: As outlined in the core curriculum, students complete a total of four credit hours of STEM 5980 over the course of their degree, beginning with one credit hour after the first semester and finishing with two credit hours their final semester. In collaboration with their mentor, each student will design a thesis or project that aligns with the interests of a community partner, fulfilling the applied component of the program. The student will develop and refine this project throughout their academic plan. In the final semester, the major professor, graduate committee members, and if applicable, the community partner will review and approve the completed thesis or research report. This final written product must be submitted to the Graduate School prior to graduation.

Action: Approved with the unanimous vote of the council. No opposition.

Barbara L. Prescott

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Barbara Prescott, University Registrar

Greg Handel

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Date: 2025.08.18 14:46:14 -05'00'

Greg Handel, Executive Vice President and Provost

James T. Genovese / HW

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James T. Genovese, University President