

To: Faculty Senate
From: Don Adams, Chair of the Curriculum Committee
Date: 11/17/2011

On November 16, the Curriculum Committee met and approved the following items. On behalf of the Curriculum Committee, I submit these items for the approval of the Faculty Senate at its meeting on Monday, November 28.

Preliminary re-design of yearly catalog can be viewed here: <http://www.ccsu.edu/page.cfm?p=10763>.

I. Minor Changes:

1. In the "Minor in Criminal Justice," change "CRM 300 Criminology 3" to "CRM 260 Criminology 3"
2. In the description of MUS 335 Music History III add the word "era" after "Romantic" so that the course description reads as follows: "Survey of the development of Western music in its historical context from the late Romantic era to the present."
3. Change COMM 333 to 332

II. Current Business:

A. Curriculum Committee Bylaws Revision. Add Article 4.9.3 as follows:

- 4.9.3. FYS topics are assigned General Education designations by the General Education subcommittee. Requests for General Education designation of FYS topics shall be submitted by the director of the FYS program to the Chair of the Curriculum Committee and the Chair of the General Education subcommittee. The Chair of the General Education Subcommittee shall schedule the topics for discussion at the subcommittee's earliest convenience. The Chair of the Curriculum Committee shall report the determination(s) of the General Education subcommittee at the following meeting of the full Curriculum Committee.

B. Approval of FYS Topic: FYS 103: Start with a Dream: Goal-setting that promotes social justice through community engagement.

C. Curriculum Changes by Department

Biology	
1	Graduate Course Addition: ACP 500
	ACP 500 Basic Principles of Nurse Anesthesia Practice 0 Prereq.: Completion of 24 credits in DNAP program or 21 credits in M.S. Biological Sciences: Anesthesia Program. Overview of current anesthetic practice. Topics include pre-anesthesia evaluation, fluid and blood therapy, monitoring the anesthesia machine, acid-base balance, pain management, post anesthesia care unit, and regional anesthesia. Conducted at affiliated hospital school of nurse anesthesia. Spring, Summer.
2	Graduate Course Addition: ACP 501
	ACP 501 Anesthesia Clinical Practicum 0 Prereq.: Completion of 33 credits in DNAP program or 21 credits in M.S. Biological Sciences: Anesthesia Program and 3.00 cumulative GPA. Structured, supervised clinical training and experience to learn how to organize, administer, and manage anesthesia in a wide range of ages of patients. Conducted at affiliated hospital school of nurse anesthesia or their affiliated sites. Includes clinical practice, advanced principles of nurse anesthesia practice, applied pharmacology, physics, and professional aspects of nurse anesthesia practice. Summer.
3	Graduate Course Addition: ACP 502
	ACP 502 Anesthesia Clinical Practicum 0 Prereq.: ACP 501 and 3.00 cumulative GPA. Continuation of ACP 501. Conducted at affiliated hospital school of nurse anesthesia or their affiliated sites. Includes clinical practice, advanced principles of nurse anesthesia practice, applied pharmacology, and professional aspects of nurse anesthesia practice. Fall.
4	Graduate Course Addition: ACP 503
	ACP 503 Anesthesia Clinical Practicum 0 Prereq.: ACP 502 and 3.00 cumulative GPA. Continuation of ACP 502. Conducted at affiliated hospital school of nurse anesthesia or their affiliated sites. Includes clinical practice, advanced principles of nurse anesthesia

	practice, applied pharmacology, and professional aspects of nurse anesthesia practice. Spring.
5	Graduate Course Addition: ACP 504
	ACP 504 Anesthesia Clinical Practicum 0 Prereq.: ACP 503. Continuation of ACP 503. Conducted at affiliated hospital school of nurse anesthesia or their affiliated sites. Summer.
6	Graduate Course Addition: ACP 505
	ACP 505 Anesthesia Clinical Practicum 0 Prereq.: ACP 504. Continuation of ACP 504. Conducted at affiliated hospital school of nurse anesthesia or their affiliated sites. Fall.
7	Graduate Course Addition: ACP 733
	ACP 733 Advanced Anesthesia Clinical Practicum I 3 Prereq.: ACP 503 or previous anesthesia clinical experience, and 3.00 cumulative GPA. Structured, supervised clinical training and advanced experiences to organize, administer, and manage anesthesia in a general or specialty setting. Professional portfolio with written case studies of clinical experiences; focus on methods for determining best clinical practices through identification of problems, review and systematic evaluation of current research, interdisciplinary collaboration, and consideration of economic and other factors that may impact patient outcomes. Conducted at affiliated hospital school of nurse anesthesia or other approved clinical sites. Fall. Summer.
8	Graduate Course Addition: ACP 734
	ACP 734 Advanced Anesthesia Clinical Practicum II 3 Prereq.: ACP 733 and 3.00 cumulative GPA. Continuation of ACP 733. Continuation of professional portfolio at more advanced level. Conducted at affiliated hospital school of nurse anesthesia or other approved clinical sites. Fall. Summer.
9	Graduate Course Addition: ACP 735
	ACP 735 Advanced Anesthesia Clinical Practicum III 3 Prereq.: ACP 734 and 3.00 cumulative GPA. Continuation of ACP 734. Continuation of professional portfolio at more advanced level. Conducted at affiliated hospital school of nurse anesthesia or other approved clinical sites. Spring.
10	Graduate Course Addition: BIO 525
	BIO 525 Advanced Physical Health Assessment for Nurse Anesthetists 3 Prereq.: Admission to M.S. Biological Sciences: Anesthesia Program; or Admission to DNAP Program. Lectures, demonstrations, group discussions and simulations presenting advanced physical health assessment of all body systems. Includes principles of peri-anesthetic care of patients with emphasis on cardiovascular, pulmonary, neurologic, renal and endocrine function; interpretation of lab data and selected specialty examinations such as pulmonary function studies, chest X-rays, 12-lead EKGs, and cardiology studies. Spring.
11	Graduate Course Addition: BIO 725
	BIO 725 Bioethics and Nurse Anesthesia 3 Prereq.: Admission to DNAP program. Ethical issues in biomedical research and health policy. Foundational knowledge and skills in responsible bioethical decision making behavior to reflect upon, address and resolve the ethical and socio-cultural issues confronted during professional practice. Fall.
12	Graduate Course Addition: BIO 730
	BIO 730 Human Factors and Patient Safety for Nurse Anesthetists 3 Prereq.: ACP 501 or previous anesthesia clinical experience. Explores human error and patient safety in anesthesia care. Introduces a systems approach to error investigation and analysis; use of multidisciplinary teamwork for prevention of errors and crisis management; and use of simulation and monitoring systems and other techniques in improving safety in anesthesia practice. Spring.
13	Graduate Course Addition: BIO 736
	BIO 736 Evidence-Based Practice and Biostatistics 3 Prereq.: BIO 598 or equivalent and admission to DNAP program. Review of statistical techniques and their benefits and limitations for clinical research. Emphasis on reviewing medical literature. Includes translation of research into practice, evaluation of practice, and improvement and reliability of nurse anesthesia practice and outcomes. Spring.
14	Graduate Course Addition: BIO 739
	BIO 739 Advanced Topics in Pharmacology 3 Prereq.: ACP 733 Advanced Anesthesia Clinical Practicum I. Study of current topics in pharmacology and nurse anesthesia practice. Topics will vary. Fall.

15	Graduate Course Addition: BIO 740
	BIO 740 Leadership in Nurse Anesthesia Education 3 Prereq.: ACP 733 Advanced Clinical Practicum I or may be taken concurrently with permission of coordinator. Principles of teaching and learning applicable to the anesthesia didactic and clinical environment. Strategies in teacher/learner communication, presentation development and strategies, curriculum design and methods of evaluation pertinent to nurse anesthesia education. Spring.
16	Graduate Course Addition: BIO 742
	BIO 742 Advanced Topics in Nurse Anesthesia 3 Prereq.: ACP 501 Anesthesia Clinical Practicum or previous anesthesia clinical experience. Topics will vary as relevant to discipline of nurse anesthesia. Topics may include healthcare policy developments, needs of ethnically and culturally diverse populations, nutrition, simulation learning, medical and legal issues in anesthesia and health care, and leadership skills in anesthesia. Lectures, seminars, discussions, independent readings and reports as appropriate for the topic will be utilized. Fall.
17	Graduate Course Addition: BIO 745
	BIO 745 Doctoral Capstone Project I 3 Prereq.: BIO 733 Advanced Clinical Practicum I, 3.00 cumulative GPA, and successful completion of Doctoral Comprehensive Exam. Capstone project proposal, including literature review and methodology. Capstone project is expected to be relevant to clinical practice, education, or leadership, and use evidence-based practice to improve clinical practice and patient outcomes. Students work with their doctoral capstone project advisor and committee members both individually and in small group meetings. Fall, Spring, Summer.
18	Graduate Course Addition: BIO 746
	BIO 746 Doctoral Capstone Project II 3 Prereq.: BIO 745 and 3.00 cumulative GPA. Doctoral capstone project research, writing and, if ready, capstone defense. Students work with their doctoral capstone advisor and committee members both individually and in small group meetings.
19	Graduate Course Addition: BIO 747
	BIO 747 Doctoral Capstone Project III 1 Prereq.: BIO 746 and 3.00 cumulative GPA. Required continuation of BIO 746 for students who have not completed their doctoral capstone projects and defense. May be repeated for up to 6 credits over three calendar years. Students work with their dissertation advisor and committee members both individually and in small group meetings. Fall, Spring, Summer.
20	Graduate Program Revision: Master of Science in Biological Sciences: Anesthesia
	Coordinator: Ruth Rollin Program Rationale: The MS Biological Sciences: Anesthesia Program is designed for registered nurses who wish to become nurse anesthetists and to expand their background in the areas of biology specific to their disciplines. Program Learning Outcomes: Graduate students will: • demonstrate a thorough understanding of physiology, pathophysiology, pharmacology, immunology, and the anesthesia-specific areas of patient safety, anesthetic management, and professional role; • describe scientific methodology and conduct experiments; • be able to read and comprehend primary literature; 38 SCHOOL OF ARTS AND SCIENCES • deliver effective oral presentations (poster or PowerPoint); and • effectively communicate on research in written format. Course and Capstone Requirements: Major Field Requirements (21 credits):

	BIO 500 Seminar in Biology BIO 517 Human Anatomy, Physiology and Pathophysiology BIO 518 Applied Physiology BIO 519 Advanced Neuroscience BIO 525 Advanced Physical Health Assessment for Nurse Anesthetists BIO 528 Pharmacology BIO 530 Immunology CHEM 550 Basic Organic and Biological Chemistry Clinical Practicum(1000 hours of clinical practicum and is 17 months in length): ACP 500 Basic Principles of Nurse Anesthesia Practice ACP 501 Anesthesia Clinical Practicum ACP 502 Anesthesia Clinical Practicum ACP 503 Anesthesia Clinical Practicum ACP 504 Anesthesia Clinical Practicum ACP 505 Anesthesia Clinical Practicum Research (4-6 credits): Plan A Capstone: BIO 598 Research in Biology BIO 599 Thesis (3 credits) and thesis defense or Plan B Capstone: BIO 590 Focused Study in Advanced Biology BIO 598 Research in Biology Comprehensive exam Note to prospective anesthesia students: The student must be a licensed registered nurse and satisfactorily complete the program of study in anesthesia at an affiliated hospital-based school of nurse anesthesia which includes 1000 hours of clinical practicum. Admission to this program is contingent upon admission to one of the following affiliated schools: New Britain School of Nurse Anesthesia, New Britain, CT: John Satterfield, M.D., medical director, and Joan Dobbins, M.S., CRNA, program director. Hospital of St. Raphael, New Haven, CT: Philip J. Noto, M.D., medical director, School of Anesthesia; and Judy Thompson, M.S., CRNA, program director. Memorial Hospital of Rhode Island, Pawtucket, R.I.: Peter Baziotis, M.D., medical director, School of Anesthesia; and Mark Foster, M.A., CRNA, program director. Note: Additional work, as described in the course syllabi, will be required for graduate credit in 400-level courses. Students may take no more than nine credits of 400-level courses.
21	Graduate Program Addition: Doctorate of Nurse Anesthesia Practice (DNAP): Entry-level Specialization and Advanced Specialization
	The Doctor of Nurse Anesthesia Practice (DNAP) program is a practice doctorate for bachelor's prepared nurses to become DNAP-prepared certified registered nurse anesthetists (CRNAs) (DNAP: Entry-level Specialization) and an advanced program for master's level practicing CRNAs to become DNAP-prepared practitioners (DNAP: Advanced Specialization), and to expand their background in areas of biology and anesthesia specific to their discipline. The program focuses on use of critical thinking skills and analyses to evaluate clinical practice, health care, and patient safety; and analyze biological research and incorporate knowledge from biological systems into clinical practice. The DNAP prepares CRNAs for positions of leadership and management, patient care, and nurse anesthesia education. The CCSU practice doctorate program courses will use a mixture of hybrid and on-campus classes. *Designates new courses. DNAP: Entry-level Specialization 63-69 credits (3 years, including doctoral capstone) I. Biological Systems Core 27 credits CHEM 550 Basic Organic and Biological Chemistry 3 credits BIO 500 Seminar in Biology 2 credits BIO 517 Human Anatomy, Physiology, and Pathophysiology 6 credits BIO 518 Pathophysiology and Applied Physiology 3 credits BIO 519 Advanced Neuroscience 3 credits BIO 528 Pharmacology 4 credits BIO 530 Immunology 3 credits BIO 598 Research in Biology 3 credits

II. Professional Core 21 credits

*BIO 525 Advanced Physical Health Assessment for Nurse Anesthetists 3 credits

*BIO 725 Bioethics in Nurse Anesthesia 3 credits

*BIO 730 Human Factors and Patient Safety for Nurse Anesthetists 3 credits

*BIO 736 Evidence-based Practice and Biostatistics 3 credits

*BIO 739 Advanced Topics in Pharmacology 3 credits

*BIO 742 Advanced Topics in Nurse Anesthesia 3 credits

*BIO 740 Leadership in Nurse Anesthesia Education 3 credits

III. Anesthesia Clinical Core 9 credits

ACP 500 Basic Principles of Nurse Anesthesia Practice Off campus

ACP 501 Anesthesia Clinical Practicum Off campus

ACP 502 Anesthesia Clinical Practicum Off campus

ACP 503 Anesthesia Clinical Practicum Off campus

*ACP 733 Advanced Anesthesia Clinical Practicum I 3 credits

*ACP 734 Advanced Anesthesia Clinical Practicum II 3 credits

*ACP 735 Advanced Anesthesia Clinical Practicum III 3 credits

IV. Capstone 6 credits

Doctoral Comprehensive Exam

*BIO 745 Doctoral Capstone Project I 3 credits

*BIO 746 Doctoral Capstone Project II 3 credits

*BIO 747 Doctoral Capstone Project III (if needed) 1 credit

DNAP: Advanced Specialization 33-42 credits (Part-time: 2 years, including doctoral capstone)

I. Biological Systems and Professional Core 18-21 credits

*BIO 725 Bioethics in Nurse Anesthesia 3 credits

*BIO 730 Human Factors and Patient Safety for Nurse Anesthetists 3 credits

*BIO 736 Evidence-based Practice and Biostatistics 3 credits

*BIO 739 Advanced Topics in Pharmacology 3 credits

*BIO 742 Advanced Topics in Nurse Anesthesia 3 credits

*BIO 740 Leadership in Nurse Anesthesia Education 3 credits

*BIO 525 Advanced Physical Health Assessment for Nurse Anesthetists 3 credits (if needed)

II. Anesthesia Clinical Core 9 credits

*ACP 733 Advanced Anesthesia Clinical Practicum I 3 credits

*ACP 734 Advanced Anesthesia Clinical Practicum II 3 credits

*ACP 735 Advanced Anesthesia Clinical Practicum III 3 credits

III. Capstone 6 credits

*BIO 745 Doctoral Capstone Project I 3 credits

*BIO 746 Doctoral Capstone Project II 3 credits

*BIO 747 Doctoral Capstone Project III (if needed) 1 credit

Engineering22 Undergraduate Course Revision: **ENGR 252 - change prerequisite only***Change prerequisite to the following (delete "or CS 151"):*

Prereq.: ENGR 251 (C- or higher) and ENGR 240.

23 Undergraduate Course Revision: **ET 251 - change prerequisite only***Change prerequisite to the following:*

Prereq.: ENGR 150; and PHYS 121 or PHYS 125; and MATH 136 (may be taken concurrently) or MATH 152.

24 Undergraduate Course Revision: **ET 357 - change prerequisite only***Change prerequisite to the following:*

Prereq.: ET 251 or ENGR 251; and PHYS 121 or PHYS 125; and Math 136 (may be taken concurrently) or MATH 152.

25	Undergraduate Course Revision: ET 495 - change prerequisites and description
	<i>Change course to the following:</i> ET 495 Topics in Engineering Technology 3 Prereq.: ENGR 257 or ET 357; and permission of instructor. Provides an opportunity to present topics of interest not currently covered in the engineering technology curricula. May be taken as a different topic more than once for credit.
26	Undergraduate/Graduate Course Revision: ETM 467 - change title, description and cycling
	<i>Change course to the following:</i> ETM 467 Applied Finite Element Analysis 3 Prereq.: ENGR 257 (C- or higher) or ET 357 (C- or higher) or permission of instructor. Application of the finite element method to structural engineering problems. Study of truss, beam, plane stress, plane strain, shell, and solid continuum finite elements; mesh generation; proper element density and element interfacing; and composite modeling problems. Two hours lecture and two hours laboratory, course meets four hours per week. [GR]
27	Undergraduate Program Revision: Major in Mechanical Engineering, B.S.
	Delete "or CS 151 Computer Science I" as an alternative to ENGR 240 Spreadsheet and Engineering Problem Solving Tools. Students must take ENGR 240. Change "ETM 467 CAE Applied Finite Element Analysis" to "ETM 467 Applied Finite Element Analysis" (as per item #26 above).
Management Information Systems	
28	Undergraduate Course Revision: MIS 201 - change description
	Delete "Not open to CS majors."
Marketing	
29	Undergraduate Course Revision: MKT 390 (electronic submission unavailable); change prerequisite only
	Delete "MKT 380 (C- or higher)" from prerequisite and replace it with "MKT 373 (C- or higher)"
Physics and Earth Sciences	
30	Undergraduate Course Revision: ESCI 278 - delete prerequisite only
Psychology	
31	Undergraduate Course Revision: PSY 236
	Add [D]-designation for Carrie Andreoletti's sections
32	Undergraduate Course Revision: PSY 364
	Add [D]-designation for Carrie Andreoletti's sections
Sociology	
33	Undergraduate Course Revision: SOC 212 - [D]-designation only
	Add [D]-designation for Beth Merenstein's sections
34	Undergraduate Course Revision: SOC 300 - change prerequisites, description and credits
	<i>Change course to the following:</i> SOC 300 Sociological Theory 4 Prereq.: SOC 110 and 3 additional credits in Sociology. Sociology majors only. Examines the dominant theoretical perspectives in sociology, which includes consideration of the works of Marx, Weber, Durkheim and selected other theorists within their historical context. Discussion of the role of theory in producing sociological explanations. Writing Intensive Course.
35	Undergraduate Course Revision: SOC 310 - change prerequisites, description and credits

	<i>Change course to the following:</i> SOC 310 Research Methods 4 Prereq.: SOC 110 and 3 additional credits in Sociology. Sociology majors only. Examines scientific method as used in sociology. Topics include inductive and deductive reasoning, quantitative and qualitative research designs, measurement, sampling, methods of data collection, and analysis strategies. Students will design a research project, collect and analyze data, and summarize their findings.
36	Undergraduate Course Addition: SOC 399
	<i>Complete course entry:</i> SOC 399 Sociology Book Club 1 Prereq.: SOC 110 or SOC 212 or permission of instructor. Designed like a book club, the purpose of the course is to enjoy and enhance the experience of reading. Students will choose the books. They may be fiction or non-fiction but they will be books written for a general audience rather than a scientific community. We will discuss the books using our sociological imagination.
37	Undergraduate Course Revision: SOC 410 - change description and credits
	<i>Change course to the following:</i> SOC 410 Quantitative Analysis 4 Prereq.: SOC 310, STAT 215. Analysis of quantitative data using computer applications to test hypotheses and to complete a research project. Three hours class lectures and one-on-one work to develop and refine a research project.
38	Undergraduate/Graduate Course Revision: SOC 411 - change description and credits
	<i>Change credits from 3 to 4.</i> <i>Add following sentence to the end of the description:</i> "Students will write a final research report. Graduate students will be required to find a repository for their research project as approved by the instructor of the course. Three hours class lectures and one-on-one work to develop and refine a research project."
39	Undergraduate Course Revision: SOC 412 - change description and credits
	<i>Change credits from 3 to 4.</i> <i>Add following sentence to the end of the description:</i> "Students will write a final research report. Three hours class lectures and one-on-one work to develop and refine a research project."
40	Undergraduate Course Revision: SOC 490 - change title, prerequisites, description and credits
	<i>Change course to the following:</i> SOC 490 Community Intern Experience and Seminar 4 Prereq.: Sociology major with 2.70 GPA or higher and at least 15 credits in Sociology. An internship application and two letters of recommendation subject to review and approval by the instructor. Accepted students are assigned to work in either a profit or a nonprofit community based organization for 8 to 10 hours per week and attend a once weekly seminar to discuss assigned readings and research projects related to internship placement.
41	Undergraduate Course Addition: SOC 499
	<i>Complete course entry:</i> SOC 499 Senior Seminar in Sociology 4 Prereq.: SOC 300; either SOC 410, 411, 412 or 413; and 16 additional credits in Sociology. This capstone course for majors provides students with a structured environment in which to complete an independent research project. Students will engage in peer workshops, and reflect upon the knowledge they have acquired in the discipline while honing their research and communication skills.

42	Undergraduate Program Revision: Major in Sociology, B.A.
	<i>Change program description to:</i> Core (11 credits): SOC 110 Introductory Sociology 3 SOC 300 Sociological Theory 4 SOC 310 Research Methods 4 Advanced Methods (4 credits): SOC 410 Quantitative Analysis 4 SOC 411 Oral History for the Social Sciences 4 SOC 412 Qualitative Analysis 4 or SOC 413 Community Research 4 Capstone (4 credits): SOC 499 Senior Seminar in Sociology 4 and 19 credits of sociology electives (12 of which must be at the 300- and/or 400-level, and with no more than 6 credits at the 100-level). Students are also required to successfully complete STAT 215. Students wishing to major in sociology are required to meet with the department chair to pick up introductory materials and information, as well as to be assigned a faculty advisor. Substantive areas of study should be developed in conjunction with the student's departmental advisor. Independent studies and internship opportunities are available to qualified majors. Eligible students are encouraged to participate in Alpha Kappa Delta, the International Sociology Honors Society.