

TO: Members of the Graduate Studies Curriculum Subcommittee

FROM: Carlotta Parr, Chair

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SUBJ: Minutes of the Meeting held on October 20, 2011, at 2:30 in RVAC 466

Members in Attendance: Oscar Perdomo (Math), Eric Leonidas (English), William R. Nelson (Special Education), Basile Panoutsopoulos (Computer Elect. & Graphics Tech.), Don Adams (Chair, Curriculum Committee), Susan Seider (Chair, Graduate Studies Committee), Robert Wolff (History/A&S Dean's Office)

I. Minutes

II. New Business

A. The committee approved the following course additions, program revision for the Master of Science in Biological Sciences: Anesthesia, and the program addition of the Doctorate of Nurse Anesthesia Practice (DNAP): Entry-level Specialization and Advanced Specialization in the Biology Department (Ruth Rollins and Mark Jackson, Representatives). The additions and revisions are described below.

Biology				
1	Graduate Course Addition: ACP 500	ACP 500 Basic Principles of Nurse Anesthesia Practice 0	Approved	[AS][SEPS][GS]
	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 (45 hours). 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	Approved As Revised	[AS][SEPS][GS]
	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 (360 hours), advanced principles of nurse anesthesia practice (30 hours), applied pharmacology (10 hours), physics (24 hours), and professional aspects of nurse anesthesia practice (15 hours). Summer.			(Revision: Hours Deleted)
3	Graduate Course Addition: ACP 502	ACP 502 Anesthesia Clinical Practicum 0	Approved	[AS][SEPS][GS]
	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 (480 hours), advanced principles of nurse			

	anesthesia practice (30 hours), applied pharmacology (10 hours), and professional aspects of nurse anesthesia practice (15 hours). Fall.			
4	Graduate Course Addition: ACP 503	ACP 503 Anesthesia Clinical Practicum 0	Approved	[AS][SEPS][GS]
	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 (480 hours), advanced principles of nurse anesthesia practice (30 hours), applied pharmacology (10 hours), and professional aspects of nurse anesthesia practice (15 hours). Spring.			
5	Graduate Course Addition: ACP 504	ACP 504 Anesthesia Clinical Practicum 0	Approved	[AS][SEPS][GS]
	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	Approved	[AS][SEPS][GS]
	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	Approved	[AS][SEPS][GS]
	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. Summer.			
8	Graduate Course Addition: ACP 734	ACP 734 Advanced Anesthesia Clinical Practicum II 3	Approved	[AS][SEPS][GS]
	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.			
9	Graduate Course Addition: ACP 735	ACP 735 Advanced Anesthesia Clinical Practicum III 3	Approved	[AS][SEPS][GS]

	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	Approved	[AS][SEPS][GS]
	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	Approved As Revised	[AS][SEPS][GS]
	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 their training and professional practice. Fall.			(Revision: phrase deleted)
12	Graduate Course Addition: BIO 730	BIO 730 Human Factors and Patient Safety for Nurse Anesthetists 3	Approved	[AS][SEPS][GS]
	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	Approved	[AS][SEPS][GS]
	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 in 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	Approved	[AS][SEPS][GS]

	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	Approved	[AS][SEPS][GS]
	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	Approved	[AS][SEPS][GS]
	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	Approved	[AS][SEPS][GS]
	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	Approved As Revised	[AS][SEPS][GS]
	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	Approved	[AS][SEPS][GS]

	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	Approved	[AS][SEPS][GS]
	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: <ul style="list-style-type: none"> <li>· demonstrate a thorough understanding of physiology, pathophysiology, pharmacology, immunology, and the anesthesia-specific areas of patient safety, anesthetic management, and professional role;</li> <li>· describe scientific methodology and conduct experiments;</li> <li>· be able to read and comprehend primary literature;</li> </ul> 38 SCHOOL OF ARTS AND SCIENCES <ul style="list-style-type: none"> <li>· deliver effective oral presentations (poster or PowerPoint); and</li> <li>· effectively communicate on research in written format.</li> </ul> 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			

	<p>Comprehensive exam</p> <p>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.</p>			
21	Graduate Program Addition	Doctorate of Nurse Anesthesia Practice (DNAP): Entry-level Specialization and Advanced Specialization	Approved	[AS][SEPS][GS]
	<p>Graduate Program Addition: Doctorate of Nurse Anesthesia Practice (DNAP): Entry-level Specialization and Advanced Specialization</p> <p>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.</p> <p>*Designates new courses.</p> <p>DNAP: Entry-level Specialization 63-64 credits (3 years, including doctoral capstone)</p> <p>I. Biological Systems Core 27 credits</p> <p>CHEM 550 Basic Organic and Biological Chemistry 3 credits</p> <p>BIO 500 Seminar in Biology 2 credits</p> <p>BIO 517 Human Anatomy, Physiology, and Pathophysiology 6 credits</p> <p>BIO 518 Pathophysiology and Applied Physiology 3 credits</p> <p>BIO 519 Advanced Neuroscience 3 credits</p> <p>BIO 528 Pharmacology 4 credits</p> <p>BIO 530 Immunology 3 credits</p> <p>BIO 598 Research in Biology 3 credits</p> <p>II. Professional Core 21 credits</p> <p>*BIO 525 Advanced Physical Health Assessment for Nurse Anesthetists 3 credits</p> <p>*BIO 725 Bioethics in Nurse Anesthesia 3 credits</p> <p>*BIO 730 Human Factors and Patient Safety for Nurse Anesthetists 3 credits</p> <p>*BIO 736 Evidence-based Practice and Biostatistics 3 credits</p> <p>*BIO 739 Advanced Topics in Pharmacology 3 credits</p> <p>*BIO 742 Advanced Topics in Nurse Anesthesia 3 credits</p> <p>*BIO 740 Leadership in Nurse Anesthesia Education 3 credits</p> <p>III. Anesthesia Clinical Core 9 credits</p> <p>ACP 500 Basic Principles of Nurse Anesthesia Practice Off campus</p> <p>ACP 501 Anesthesia Clinical Practicum Off campus</p> <p>ACP 502 Anesthesia Clinical Practicum Off campus</p>			

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 33-37 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

B. The committee approved the following course revision in the Engineering Department (Tom Vasko, Representative). The revision is described below.

Engineering				
22	Undergraduate/Graduate Course Revision: ETM 467	Change title, description and cycling	Approved	[SET][GS]
	Change course to the following:  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]			

C. The following course revisions in the Humanities and International Studies Department were postponed until next month, as there was not a Representative. The proposed changes are described below.

Humanities and International Studies				
23	Undergraduate Course Revision: HUM 490	Change number, title, description, credits, remove Grad credit in undergrad catalog	Postponed	AS][GE][GS]

24	Undergraduate Course Revision: HUM 494	Change number, title, description, remove Grad credit in undergrad catalog	Postponed	AS][GE][GS]
<p>Change course to the following (delete this course from the Grad catalog, remove Grad credit in undergrad catalog):</p> <p>HUM 360 International Studies Through Travel 3 or 6 Classroom and study abroad exploring special cultural topics taken from any world region. Offered in English. May be repeated with different topics or countries. Cross-listed with IS 360. No credit will be given to students with credit for IS 360 focusing on the same topic. [I]</p>				

D. The committee approved the following course revision in the Sociology Department (Mary Erdmans and Stephen Adair, Representative). The revision is described below.

Sociology				
24	Undergraduate/Graduate Course Revision: SOC 411	Change description and credits Change credits from 3 to 4.	Approved	[AS][GS]
<p>Add following sentence to the end of the description: "Students will write a final research report. Three hours class lectures and one-on-one work to develop and refine a research project."</p>				