

CANR Curricula and Courses Committee
Minutes
October 5, 2012
2:00 pm York Room George White Building

I. The meeting was called to order at 1:10 pm by Chair Mike Darre. Members present were: Marilyn Altobello, Rhonda Brownbill, George Elliott, Cameron Faustman, Sal Frasca, , Susan Gregoire, Gary Kazmer, Mark Rudnicki.

II. The minutes of September 21, 2012 we approved as distributed.

III. Old Business:

A. AG Biotech Minor George Elliott will contact Gerry Berkowitz and Cindy Tian with our concerns.

B. ADD: ANSC 3311 Comparative Exercise Physiology Effective Spring 2014
(CANR CC 12-13-08, Motion Tabled for input from instructor on proposed modifications to pre-requisites.) The motion was removed from the table and the revised pre-requisites were approved.

Proposed Title and Complete Catalog Copy:

ANSC 3311. Comparative Exercise Physiology. Three credits. Two class periods and one 2-hour lab/discussion period. Prerequisite: PVS 2100 or PNB 2265 or PNB 2275, Open to juniors or higher.

A comparative study of the effects of exercise on the body, focusing on the three primary athletic species (canine, equine, human). Particular emphasis will be placed on the physiological mechanisms which allow for adaptation to exercise and inactivity. Discussion/lab periods will focus on critical review of current scientific literature and hands on activities.

MOTION PASSED CANR CC 12-13-08

C. Revise the minutes of March 2, 2012 to reflect correct catalog copy for motion CANR CC 11-12-52.

REVISE: Science electives for the Allied Health Sciences major to state that one credit courses may not be used to satisfy this requirement. Effective Immediately

Current Catalog copy:

Required courses in basic sciences and mathematics:

Allied Health Sciences (no concentration) and Allied Health Sciences with Health Promotion Sciences concentration: AH 1100, CHEM 1122 or 1124Q or 1127Q; PHYS 1010Q or CHEM 1125Q or 1128Q; BIOL 1107; NUSC 1165; PSYC 1100; PSYC 1101 or 1103; PSYC 2300, 2400; MATH 1040Q or 1060Q or 1125Q or higher; STAT 1000Q or 1100Q; and two (2) additional science courses approved by the Department of Allied Health Sciences. Science courses used to meet program requirements cannot be used to meet this requirement.

Writing in the major: AH 4240W

Allied Health Sciences with Health Sciences concentration: AH 1100, CHEM 1124Q or 1127Q; CHEM 1125Q or 1128Q; CHEM 2241 and 2242 or 2443, 2444, and 2445; BIOL 1107; PHYS 1201Q and 1202Q or PHYS 1401Q and PHYS 1402Q or PHYS 1501Q and 1502Q; PSYC 1100; MATH 1060Q or 1125Q or higher; STAT 1000Q or 1100Q; and two (2) additional science courses approved by the Department of Allied Health Sciences. Science courses used to meet program requirements cannot be used to meet this requirement.

Writing in the major: AH 4240W

Allied Health Sciences with Occupational Safety and Health concentration: AH 1100, BIOL 1107; CHEM 1124Q or 1127Q; CHEM 1125Q or 1128Q; MATH 1060Q or 1125Q or higher; NRE 1000; PHYS 1010Q or PHYS 1201Q or higher; PSYC 1100; PSYC 1101 or 1103; STAT 1000Q or 1100Q; and two (2) additional science courses approved by the Department of Allied Health Sciences (required science courses cannot also be used to meet the science electives; CHEM 1126Q and/ or CHEM 2241 suggested).

Writing in the major: AH 4221W or 4240W

Revised Catalog copy:

Required courses in basic sciences and mathematics:

Allied Health Sciences (no concentration) and Allied Health Sciences with Health Promotion Sciences concentration: AH 1100, CHEM 1122 or 1124Q or 1127Q; PHYS 1010Q or CHEM 1125Q or 1128Q; BIOL 1107; NUSC 1165; PSYC 1100; PSYC 1101 or 1103; PSYC 2300, 2400; MATH 1040Q or 1060Q or 1125Q or higher; STAT 1000Q or 1100Q; and two (2) additional science courses approved by the Department of Allied Health Sciences. Science courses used to meet **other** program requirements cannot be used to meet this requirement. **Courses used to satisfy this requirement must be two or more credits.**

Writing in the major: AH 4240W

Allied Health Sciences with Health Sciences concentration: AH 1100, CHEM 1124Q or 1127Q; CHEM 1125Q or 1128Q; CHEM 2241 and 2242 or 2443, 2444, and 2445; BIOL 1107; PHYS 1201Q and 1202Q or PHYS 1401Q and PHYS 1402Q or PHYS 1501Q and 1502Q; PSYC 1100; MATH 1060Q or 1125Q or higher; STAT 1000Q or 1100Q; and two (2) additional science courses approved by the Department of Allied Health Sciences. Science courses used to meet **other** program requirements cannot be used to meet this requirement. **Courses used to satisfy this requirement must be two or more credits.**

Writing in the major: AH 4240W

Allied Health Sciences with Occupational Safety and Health concentration: AH 1100, BIOL 1107; CHEM 1124Q or 1127Q; CHEM 1125Q or 1128Q; MATH 1060Q or 1125Q or higher; NRE 1000; PHYS 1010Q or PHYS 1201Q or higher; PSYC 1100; PSYC 1101 or 1103; STAT 1000Q or 1100Q; and two (2) additional science courses approved by the Department of Allied Health Sciences. **Science courses used to meet other program requirements cannot be used to meet this requirement. Courses used to satisfy this requirement must be two or more credits.** (CHEM 1126Q and/ or CHEM 2241 suggested).

Writing in the major: AH 4221W or 4240W

MOTION PASSED CANR CC 11-12-52A (10-5-2012)

IV. New Business:

A. The Department of Animal Science proposes the following actions:

1. ADD: ANSC 3312W Scientific Writing in Comparative Exercise Physiology. Effective Spring 2014

Proposed Title and Complete Catalog Copy:

ANSC 3312W. Scientific Writing in Comparative Exercise Physiology.

Spring. One credit. One class period. Prerequisite: ENGL 1010 or 1011 or 3800; Open to juniors or higher. Co-requisite: ANSC 3311.

A writing intensive class integrated with course content in ANSC 3311, Comparative Exercise Physiology.

MOTION PASSED CANR CC 12-13-22

2. ADD: ANSC 4342W Scientific Writing in Food Microbiology and Safety. Effective Spring 2013

Proposed Title and Complete Catalog Copy:

ANSC 4342W. Scientific Writing in Food Microbiology and Safety
Spring. One credit. One class period. Prerequisite: ENGL 1010 or 1011 or 3800; Open to juniors or higher. Co-requisite: ANSC 4341, Food Microbiology and Safety

A writing-intensive class integrated with course content in ANSC 4341

MOTION PASSED CANR CC 12-13-23

B. The Department of Allied Health Science proposed the following actions:

1. Revise: AH 3021 Environment, Genetics and Cancer to revise catalog description. Effective Fall 2013.

Current Catalog copy:

AH 3021 Environment, Genetics and Cancer.

(Formerly offered as ANSC 221). Three credits. Prerequisites: BIOL 1107; CHEM 2241 or 2443; open to Environmental Sciences and Allied Health Sciences majors, others with instructor consent; open to juniors or higher. Concurrent enrollment in one of the following is strongly recommended: MCB 2000, 2410, 2413, or 2210, 3010.

Basic principles in tumor biology will be presented with an emphasis on phenotypic changes in transformed cell morphology and behavior. The biochemical basis of cell transformation, proliferation, and metastasis will be covered, followed by discussions of molecular mechanisms by which environmental chemicals interact with DNA and other cellular components. Metabolic activation of genotoxic carcinogens will be covered in detail, and the importance of polymorphisms in activating enzymes among human subpopulations will be discussed in terms of individual risks of cancer. Activation of proto-oncogenes, inactivation of tumor suppressor genes, and the role of these proteins in regulating the cell cycle will be covered in detail. Approaches for estimating human risk of cancer based on exposure estimates and biological markers will also be presented.

Revised Catalog copy: *{change course description}*

AH 3021 Environment, Genetics and Cancer.

(Formerly offered as ANSC 221). Three credits. Prerequisites: BIOL 1107; CHEM 2241 or 2443; open to Environmental Sciences and Allied Health Sciences majors, others with instructor consent; open to juniors or higher. Concurrent enrollment in one of the following is strongly recommended: MCB 2000, 2410, 2413, or 2210, 3010.

Basic principles in tumor biology will be presented including the biochemical basis of cell transformation, proliferation, and metastasis. Molecular mechanisms by which environmental chemicals interact with DNA and other cellular components will be discussed. The role of proto-oncogenes, tumor suppressor genes, and their products will be covered. Biological markers of cancer risk and exposure will be included.

MOTION PASSED CANR CC 12-13-24

2. REVISE: DGS Program requirements. Drop MCB 2210 (Cell Biology) as a DGS Program Requirement. Effective Fall 2012.

Current Catalog copy:

Supplemental Academic Standards.

1. Students must maintain a minimum semester grade point average of 2.2
2. Students must maintain a minimum cumulative grade point average of 2.2
3. Students must maintain a minimum major grade point average of 2.2
 - a. The Diagnostic Genetic Sciences Major GPA includes all courses offered with the following departmental designations: AH, DGS, and the following MCB courses: 2000, 2210, 2410, and 2610

Revised Catalog copy:

Supplemental Academic Standards.

1. Students must maintain a minimum semester grade point average of 2.2
2. Students must maintain a minimum cumulative grade point average of 2.2
3. Students must maintain a minimum major grade point average of 2.2
 - a. The Diagnostic Genetic Sciences Major GPA includes all courses offered with the following departmental designations: AH, DGS, and the following MCB courses: 2000, 2410, and 2610

Current Catalog copy:

Mathematics and Science Courses - CHEM 1124Q and 1125Q or CHEM 1127Q and 1128Q; CHEM 2241 and 2242 or CHEM 2443 and 2444; BIOL 1107; Biology Option: BIOL 1103 or a course in Anatomy and Physiology or BIOL 1108 or MCB 2610 or a Biology course pre-approved by the Diagnostic Genetic Sciences Program Director; MATH 1040Q or 1060Q or 1125Q or above; MCB 2000, 2210, 2410, 2610; STAT 1000Q or 1100Q.

Revised Catalog copy:

Mathematics and Science Courses - CHEM 1124Q and 1125Q or CHEM 1127Q and 1128Q; CHEM 2241 and 2242 or CHEM 2443 and 2444; BIOL 1107; Biology Option: BIOL 1103 or a course in Anatomy and Physiology or BIOL 1108 or MCB 2610 or a Biology course pre-approved by the Diagnostic Genetic Sciences Program Director; MATH 1040Q or 1060Q or 1125Q or above; MCB 2000, 2410, 2610; STAT 1000Q or 1100Q.

MOTION PASSED CANR CC 12-13-25

3. ADD: DGS 4236 Case Studies in Molecular Pathology. Effective Fall 2013

Proposed Title and Complete Catalog copy:

DGS 4236 Case Studies in Molecular Pathology.

Fall semester. 1 credit. One 1-hour discussion. Concurrent enrollment in DGS 4235 required. Open to DGS students.

Clinical cases in molecular pathology are presented and discussed.

MOTION PASSED CANR CC 12-13-26

4. REVISE: Diagnostic Genetic Sciences program and graduation requirement: DGS 4236 Case Studies in Molecular Pathology must be passed with a grade of C or better Effective Fall 2013.

Current Catalog copy:

Professional Courses - AH 2001, 3121, 4241, 4244; DGS 3222, 3223, 3225, 4224, 4234W, 4235, 4246, 4248; Cytogenetics Concentration Clinical Courses: 4701, 4702, 4703, 4712, 4713, 4750; Molecular Concentration Practicum Courses: 4501, 4502, 4503, 4550; and one of the following: 4510, 4512, 4513, 4514, 4515

New catalog copy:

Professional Courses - AH 2001, 3121, 4241, 4244; DGS 3222, 3223, 3225, 4224, 4234W, 4235, 4236, 4246, 4248; Cytogenetics Concentration Clinical Courses: 4701, 4702, 4703, 4712, 4713, 4750; Molecular Concentration Practicum Courses: 4501, 4502, 4503, 4550; and one of the following: 4510, 4512, 4513, 4514, 4515

MOTION PASSED CANR CC 12-13-27

5. REVISE: DGS 4235 Molecular Technologies laboratory. Add DGS 4236 as a co-requisite. Effective Fall 2013.

Current Title and Catalog Copy:

4235. Laboratory in Molecular Diagnostics

(235) Two credits. Prerequisite: DGS 4234 which may be taken concurrently; open only to students enrolled in the Diagnostic Genetic Sciences Program.
DNA isolation, blotting techniques, fluorescent in situ hybridization, polymerase chain reaction and Genprobe assay. A fee of \$50 is charged for this course.

Revised Title and Catalog Copy: *(new pre/co requisite)*

4235. Laboratory in Molecular Diagnostics

(235) Two credits. Prerequisite: DGS 4234 and 4236 which may be taken concurrently; open only to students enrolled in the Diagnostic Genetic Sciences Program.
DNA isolation, blotting techniques, fluorescent in situ hybridization, polymerase chain reaction and Genprobe assay. A fee of \$50 is charged for this course.

MOTION PASSED CANR CC 12-13-28

6. REVISE: DGS 4503 Amplification Methods. Add DGS 4236 as a prerequisite Effective Fall 2013.

Current Title and Catalog Copy:

4503. Amplification Methods

(261) Six credits. Prerequisite: In order to enroll in this course, a student must have earned a "C" or better in DGS 4234 and 4235; open only to DGS molecular students only.
Practicum experience in DNA and/or RNA amplification stressing polymerase chain reaction.

Revised Title and Catalog Copy: *(add prerequisite)*

4503. Amplification Methods

(261) Six credits. Prerequisite: In order to enroll in this course, a student must have earned a "C" or better in DGS 4234, 4235, and 4236; open only to DGS molecular students only.
Practicum experience in DNA and/or RNA amplification stressing polymerase chain reaction.

MOTION PASSED CANR CC 12-13-29

7. Informational submission: Program management of the on-line Certificate program in Occupational Safety and Health.

The Department of Allied Health Sciences has had a long relationship with CCS and their OSH certificate program. Due to the reorganization of CCS to CETL, programs now must reside in an academic department. Therefore, beginning immediately, the on-line Certificate in Occupational Safety and Health will be vetted through the AHS department.

This will result in:

- 1) No increase in teaching load as the instructors for this program are already AHS faculty teaching OSH and AH cross listed courses.
- 2) The admissions process will increase workload for our dept but this program's admission will fold into our already existing certificate program application process.
- 3) No appreciable increase in student population.

V. Report from Academic Programs: Cameron Faustman reminded everyone that an Advising Workshop was upcoming and recommends this to new faculty. Also that Career Services will be providing a full time person to work 4 days per week with CANR students. Questions about jobs, internships, etc. will be addressed by this person.

VI. Other Business: none

VII. The meeting was adjourned at 3:15 pm. The next meeting is on Friday, October 19. 2 pm. York Room in GW Dr. Geroge Elliott will chair the meeting in Mike Darre's absence.