

CANR Curricula and Courses Committee
Minutes – Final Approved
December 7, 2012
2:00 pm York Room George White Building

I. The meeting was called to order at 2:06 pm by Chair Mike Darre Members present: Marilyn Altobello, Rhonda Brownbill, George Elliott, Sal Frasca, Susan Gregoire, Gary Kazmer Mark Rudnicki. Pat Jepson was present as representative of Academic Programs.

II. The minutes of November 16, 2012 were approved as distributed.

III. Old Business:

A. AG Biotech Minor – Nothing new to report.

B. The minutes of March 23 were amended to change the number of credits of NRE 3674 from 3 to 1, as intended by the department. (original motion CANR CC 11-12-59)

1 ADD: NRE 3674 Introduction to Agriculture and Environment of China. Effective Fall 2012

Proposed Catalog Copy

NRE 3674 Introduction to Environment and Agriculture of China

~~Three~~ One credits. Yang

Basics about the environment and agriculture of China, including geography, climate, agriculture, natural resources, history and culture of China.

MOTION PASSED CANR CC 12-13-48

IV. New Business:

A. The Department of Pathobiology and Veterinary Science proposes the following:

1. REVISE: PVS 3100, Histologic Structure and Function. Effective Spring 2013

Add as recommended preparation PVS 2100 or PNB 2264-2265 or PNB 2274-2275 or an equivalent course in vertebrate anatomy and physiology; change the duration of the laboratory to 3 hours; reword the final phrase of the current catalog description to replace the word “man.”

Current catalog copy:

3100. Histologic Structure and Function (296) (Formerly offered as PATH 296.) Four credits.

Three class periods and one 2-hour laboratory. Pre-requisite: Open to juniors or higher; open only with consent of instructor. *Frasca*

Designed for students in biologic, paramedical and animal sciences, and its purpose is to integrate histologic and cellular structure with function, utilizing tissues from man and other vertebrates.

Revised catalog copy:

3100. Histologic Structure and Function (296) (Formerly offered as PATH 296.) Four credits.

Three class periods and one 3-hour laboratory. Pre-requisite: Open to juniors or higher; open only with consent of instructor. Recommended preparation: PVS 2100 or PNB 2264-2265 or PNB 2274-2275 or an equivalent course in vertebrate anatomy and physiology.

Frasca

Designed for students in biologic, paramedical and animal sciences; its purpose is to integrate histologic and cellular structure with function, utilizing human tissues and those from other vertebrates.

MOTION PASSED CANR CC 11-12-49

2. REVISE: PVS 4300, Principles of Pathobiology Effective Spring 2013
Add as recommended preparation PVS 2100 or PNB 2264-2265 or PNB 2274-2275
or an equivalent course in vertebrate anatomy and physiology, and PVS 3100 or an
equivalent course in histology; change instructor to Frasca

Current catalog copy:

4300. Principles of Pathobiology (297) (Formerly offered as PATH 297.) Three credits.

Prerequisite: Open to juniors or higher. *Van Kruiningen*

The body's response to chemical, physical, and microbial injuries including the functional
and morphologic alterations in disease of the major organ systems are discussed.

Knowledge of anatomy and physiology is recommended.

Revised catalog copy:

4300. Principles of Pathobiology (297) (Formerly offered as PATH 297.) Three credits.

Prerequisite: Open to juniors or higher. Recommended preparation: PVS 2100 or PNB 2264-
2265 or PNB 2274-2275 or an equivalent course in vertebrate anatomy and physiology; PVS
3100 or an equivalent course in histology. *Frasca*

The body's response to chemical, physical, and microbial injuries including the functional
and morphologic alterations in disease of the major organ systems are discussed.

MOTION PASSED CANR CC 12-13-50

3. REVISE: Requirements to the PVS Major Effective Spring 2013

a) Revise ANSC 2111, Principles of Animal Nutrition to ANSC 1111, same title.

b) Revise "Pathobiology majors must pass the following courses: PVS 1000, 2100,
3100 and 4300" to include courses in human physiology and anatomy, e.g. PNB
2264-2265, Human Physiology and Anatomy or PNB 2274-2275, Enhanced Human
Physiology and Anatomy.

Current catalog copy:

Pathobiology majors must pass the following courses: PVS 1000, 2100, 3100 and 4300

MCB 2610

One course in Biochemistry: MCB 2000 or MCB 3010

One course in Genetics: MCB 2410, MCB 2413, or ANSC 3121

One course in Nutrition, Immunology, or Cell Biology: ANSC 2111, NUSC 1165, MCB 2210,
4211, or AH 3121

One of the following courses: PVS 2301, 3201 or 3201W, 3341, 3501, 4351

Revised catalog copy:

Pathobiology majors must pass the following courses: PVS 1000, PVS 2100 or PNB 2264-
2265 or PNB 2274-2275, PVS 3100 and PVS 4300

MCB 2610

One course in Biochemistry: MCB 2000 or MCB 3010

One course in Genetics: MCB 2410, MCB 2413, or ANSC 3121

One course in Nutrition, Immunology, or Cell Biology: ANSC 1111, NUSC 1165, MCB 2210,
4211, or AH 3121

One of the following courses: PVS 2301, 3201 or 3201W, 3341, 3501, 4351

MOTION PASSED CANR CC 12-13-51

B. The Department of Nutritional Sciences proposes the following:

1. REVISE: NUSC 3171: Husky Nutrition One from two to three credits. (Effective
Fall 2013)

Current Catalog Copy:

NUSC 3171. Husky Nutrition One. Two credits. Prerequisite: NUSC 1165. Permission of instructor required. Lecture and experiential learning in pre-schools where students conduct learning activities about reducing sweetened beverage consumption. Lecture, applied learning laboratory, supervised field work with community nutrition education and problem-solving. Readings, discussion and reflections.

Revised Catalog Copy:

NUSC 3171. Husky Nutrition One. Three credits. Prerequisite: NUSC 1165. Permission of instructor required. Lecture and experiential learning in pre-schools where students conduct learning activities about reducing sweetened beverage consumption. Lecture, applied learning laboratory, supervised field work with community nutrition education and problem-solving. Readings, discussion and reflections.

MOTION PASSED CANR CC 12-13-52

2. REVISE: NUSC 3172: Husky Nutrition Two from two to three credits. (Effective Fall 2013)

Current Catalog Copy:

NUSC 3172. Husky Nutrition Two. Two credits. Prerequisite: NUSC 1165. Consent of Instructor required. Lecture and learning laboratory, with supervised field work in providing healthy nutrition education in community settings. Readings, quizzes, discussions, reflections and a term paper.

Revised Catalog Copy:

NUSC 3172. Husky Nutrition Two. Three credits. Prerequisite: NUSC 1165. Consent of Instructor required. Lecture and learning laboratory, with supervised field work in providing healthy nutrition education in community settings. Readings, quizzes, discussions, reflections and a term paper.

MOTION PASSED CANR CC 12-13-53

3. REVISE: NUSC major requirements: advanced information literacy requirement to be satisfied by either NUSC 4237W or NUSC 4296W. (Effective immediately)

Current catalog Copy:

Nutritional Sciences majors must successfully pass the following courses:

[NUSC 1165](#), [2200](#), [4236](#) and [4237W](#); [BIOL 1107](#); [CHEM 1124Q](#) and [1125Q](#) or [CHEM 1127Q](#) and [1128Q](#); [CHEM 2241](#), or [2443](#) and [2444](#); [PNB 2264](#) and [2265](#), or [BIOL 1108](#) and [PNB 2250](#) or [BIOL1108](#) and [PVS 2100](#); [MCB 2000](#) or [3010](#)

In addition to the courses listed above, a minimum of 4 credits, numbered 2000-level or above, must be earned from courses in the Department of Nutritional Sciences. Credits earned in field experiences and independent studies cannot be used to meet this 4-credit requirement. Specific course recommendations are listed in the *Undergraduate Bachelor Degree Program* brochure in the department.

Students must take either [NUSC 4237W](#) or [4296W](#) to fulfill their writing in the major requirement. The advanced information literacy requirement is fulfilled with [NUSC 4237W](#). There are no advanced requirements for computer technology.

Revised Catalog Copy:

Nutritional Sciences majors must successfully pass the following courses:

[NUSC 1165](#), [2200](#), [4236](#) and either [4237W](#) or [4296W](#); [BIOL 1107](#); [CHEM 1124Q](#) and [1125Q](#) or [CHEM 1127Q](#) and [1128Q](#); [CHEM 2241](#), or [2443](#) and [2444](#); [PNB 2264](#) and [2265](#), or [BIOL 1108](#) and [PNB 2250](#) or [BIOL1108](#) and [PVS 2100](#); [MCB 2000](#) or [3010](#)

In addition to the courses listed above, a minimum of 4 credits, numbered 2000-level or above, must be earned from courses in the Department of Nutritional Sciences. Credits earned in field experiences and independent studies cannot be used to meet this 4-credit requirement. Specific course recommendations are listed in the *Undergraduate Bachelor Degree Program* brochure in the department.

Students must take either [NUSC 4237W](#) or [4296W](#) to fulfill their writing in the major requirement **and the advanced information literacy requirement**. There are no advanced requirements for computer technology.

MOTION PASSED CANR CC 12-13-54

C. The Department of Agriculture and Resource Economics proposes the following:

1. REVISE: ARE 4305 Role of Agriculture and Natural Resources in Economic Development” Add Prerequisites: MATH 1071Q or 1110Q or 1120Q or 1126Q or 1131Q to existing prerequisites Effective Fall 2013

Current Catalog Copy:

ARE 4305. The Role of Agriculture and Natural Resources in Economic Development (Formerly offered at ARE 3255.) Three credits. Prerequisite:ARE 1150 or ECON 1200 or ECON 1201.Credit may not be received for both ARE 4305 and 5305. Bravo-Ureta.

The role of agriculture in the economic development of less developed economies. Microeconomic dimensions of agricultural development, economics of food consumption and nutrition, agricultural technology and productivity, agricultural supply, land tenure and agrarian reform, foreign assistance, trade agreements, and agricultural price policy.

Revised Catalog Copy:

ARE 4305. The Role of Agriculture and Natural Resources in Economic Development (Formerly offered at ARE 3255.) Three credits. Prerequisite:ARE 1150 or ECON 1200 or 1201; MATH 1071Q or 1110Q or 1120Q or 1126Q or 1131Q. Credit may not be received for both ARE 4305 and 5305. Bravo-Ureta.

The role of agriculture in the economic development of less developed economies. Microeconomic dimensions of agricultural development, economics of food consumption and nutrition, agricultural technology and productivity, agricultural supply, land tenure and agrarian reform, foreign assistance, trade agreements, and agricultural price policy.

MOTION PASSED CANR CC 12-13-55

2.REVISE: ARE 4464 Benefit-Cost Analysis and Resource Management Add Prerequisites: MATH 1071Q or 1110Q or 1120Q or 1126Q or 1131Q; and STAT 1000Q or 1100Q to existing prerequisites. Effective Fall 2013

Current Catalog Copy:

ARE 4464. Benefit Cost Analysis and Resource Management 257) Three credits. Prerequisite: ARE 1150 or ECON 1200 or ECON 1201; open to juniors or higher. Credit may not be received for both ARE 4464 and 5464. Theoretical foundations and applications of benefit-cost analysis in project appraisal and in evaluation of public policies regarding resource management and environmental protection.

Revised Catalog Copy:

ARE 4464. Benefit Cost Analysis and Resource Management 257) Three credits. Prerequisite: ARE 1150 or ECON 1200 or 1201; MATH 1071Q or 1110Q or 1120Q or 1126Q; or 1131Q; and STAT 1000Q or 1100Q: open to juniors or higher. Credit may not be received for both ARE 4464 and 5464. Theoretical foundations and applications of benefit-cost analysis in project appraisal and in evaluation of public policies regarding resource management and environmental protection.

MOTION PASSED CANR CC 12-13-56

3. REVISE: ARE 5305 "The Role of Agriculture and Natural Resources in Economic Development" Add "Consent of Instructor" as a prerequisite Effective Fall 2013

Current Catalog Copy:

ARE 5305(3 Credits) The Role of Agriculture and Natural Resources in Economic Development

The role of agriculture in the economic development of less developed economies. Microeconomic dimensions of agricultural development, economics of food consumption and nutrition, agricultural technology and productivity, agricultural supply, land tenure and agrarian reform, foreign assistance, trade agreements, and agricultural price policy. Components: Lecture

Revised Catalog Copy:

ARE 5305(3 Credits) The Role of Agriculture and Natural Resources in Economic Development. Consent of Instructor.

The role of agriculture in the economic development of less developed economies. Microeconomic dimensions of agricultural development, economics of food consumption and nutrition, agricultural technology and productivity, agricultural supply, land tenure and agrarian reform, foreign assistance, trade agreements, and agricultural price policy. Components: Lecture

MOTION PASSED CANR CC 12-13-57

4. REVISE: ARE 5464 "Benefit Cost Analysis and Resource Management" Add "Consent of Instructor" as a prerequisite Effective Fall 2013

Current Catalog Copy:

ARE5464(3 Credits) Benefit-Cost Analysis and Resource Management

Theoretical foundations and applications of benefit-cost analysis in project appraisal and in evaluation of public policies regarding resource management and environmental protection. Components: Lecture

Revised Catalog Copy:

ARE5464(3 Credits) Benefit-Cost Analysis and Resource Management. Consent of Instructor.

Theoretical foundations and applications of benefit-cost analysis in project appraisal and in evaluation of public policies regarding resource management and environmental protection. Components: Lecture

MOTION PASSED CANR CC 12-13-58

C. The Department of Allied Health Sciences proposes the following:

1. REVISE: Program and Graduation requirements for Medical Laboratory Sciences Major.

a) Add: DGS 4234 (Dx. Molecular Technologies) passed with a grade of C or better. Effective Fall 2013.

b) Add: DGS 4235 (Lab. Molecular Diagnostics) passed with a grade of C or better Effective Fall 2013

c) Drop: MLSC 3361 (Molecular Techniques for Med Lab Sciences) as a program and graduation requirement. Effective Fall 2013

Current Catalog copy: (pg. 34 of 13-14 draft catalog)

Supplemental Academic Standards

c. The Medical Laboratory Sciences Major GPA includes all courses offered with the following departmental designations: AH and MLSC. Students receiving a grade less than a "C" in two or more courses with the departmental designations of AH or MLSC in any given semester are subject to dismissal from the Program and in some cases the Department of Allied Health Sciences.

Revised catalog copy:

Supplemental Academic Standards

c. The Medical Laboratory Sciences Major GPA includes all courses offered with the following departmental designations: AH, DGS and MLSC. Students receiving a grade less than a "C" in two or more courses with the departmental designations of AH, DGS or MLSC in any given semester are subject to dismissal from the Program and in some cases the Department of Allied Health Sciences.

Current Catalog copy: (pg. 37 of 13-14 draft catalog)

Professional Courses - AH 2001, 3121, 4241, 4244; MLSC 3130, 3132, 3301, 3333, 3361, 3365, 4094W, 4301, 4302, 4311, 4312, 4321, 4322, 4341, 4342, 4351, 4352, 4366, 4371, 4372

Revised catalog copy

Professional Courses - AH 2001, 3121, 4241, 4244; DGS 4234, 4235; MLSC 3130, 3132, 3301, 3333, 3365, 4094W, 4301, 4302, 4311, 4312, 4321, 4322, 4341, 4342, 4351, 4352, 4366, 4371, 4372

d) Drop the science elective as a pre-requisite to admission and as a graduation requirement. Effective Fall 2013.

Current catalog copy:

Mathematics and Science Courses - CHEM 1124Q and 1125Q or CHEM 1127Q and 1128Q; CHEM 2241 *or* CHEM 2443 and 2444; BIOL 1107; Science Option*; MATH 1040Q or 1060Q or 1125Q or above; STAT 1000Q or 1100Q; MCB 2000; 2400 *or* 2410; PVS 4300 or PNB 2264 and 2265 or 2274 and 2275.

*Subjects Areas that may be used to satisfy the science option (Others may be substituted with substitution/exemption approval) ANSC; BIOL (except 1102); CHEM; MCB; PVS (except 4300); PHYS; PNB (except 2264 and 2265 or 2274 and 2275 if used to fulfill the PVS 4300 requirement)

Revised catalog copy:

Mathematics and Science Courses - CHEM 1124Q and 1125Q or CHEM 1127Q and 1128Q; CHEM 2241 *or* CHEM 2443 and 2444; BIOL 1107; MATH 1040Q or 1060Q or 1125Q or above; STAT 1000Q or 1100Q; MCB 2000; 2400 *or* 2410; PVS 4300 or PNB 2264 and 2265 or 2274 and 2275.

MOTION PASSED CANR CC 12-13-59

REVISED MOTION PASSED CANR CC 12-13-59R1 (3-1-13 meeting)

2. ADD: AH 2330: Italy's Mediterranean Food and Our Health as a CA-4INT course. Effective Summer 2013.

NOTE: (The proposed catalog description is somewhat confusing. It was suggested to use the text of the course description from the syllabus as modified here:

A basic summary of the Italian Mediterranean diet: definitions, culture, history, food patterns, nutrient composition, health benefits and consequences. The most important foods of Italy (olive oil, fruits and vegetables, dairy, wine, etc.) will be the focus of the course: from production/manufacturing, to composition and consumption, and potential health consequences, with an

emphasis on the cultural difference in the food consumed by Italians and Americans and how these relate to health differences between the two countries.

MOTION TABLED CANR CC 12-13-60 (See Electronic Vote Minutes of Dec 29 for final description)

3. REVISE: AH 3099: Independent Study for Undergraduates. Change title to Independent Study in Allied Health and add the current restrictions to the description. Effective Fall 2013.

Current Catalog Copy:

3099. Independent Study for Undergraduates

(299) Credits and hours by arrangement, not to exceed four. Prerequisite: Open only with consent of instructor. May be repeated for credit. Individualized study in a specialized area in the field of allied health.

Revised Catalog Copy:

3099. Independent Study in Allied Health

(299) Credits and hours by arrangement, not to exceed four. Prerequisite: Open only with consent of instructor, advisor and department head. May be repeated for credit. Students may only count a maximum combined credit total of 6 credits toward the Allied Health major of Foreign Study, Independent Study and Internship credits. Individualized study in a specialized area in the field of allied health.

MOTION PASSED CANR CC 12013-61

4. REVISE: DGS 4234: Diagnostic Molecular Technologies Drop MCB 2413 and add MCB 2400 as a prerequisite for MLSC majors and change enrollment restriction to include MLSC students. Effective Fall 2013.

Current Catalog Copy:

4234. Diagnostic Molecular Technologies

(234) Three credits. Prerequisite: MCB 2410 or 2413; and AH 3121 or MCB 4211 which may be taken concurrently; open only to students enrolled in the Diagnostic Genetic Sciences Program; others with instructor consent.

DNA and RNA diagnostic technologies used in clinical settings; clinical applications in prenatal diagnosis; cancer management, transplantation, paternity testing, forensic medicine and microbiology.

4234W. Diagnostic Molecular Technologies

(234W) Prerequisite: MCB 2410 or 2413; and AH 3121 or MCB 4211 which may be taken concurrently; ENGL 1010 or 1011 or 2011 or 3800; open only to students enrolled in the Diagnostic Genetic Sciences Program.

Revised Catalog copy

4234. Diagnostic Molecular Technologies

(234) Three credits. Prerequisite: MCB 2400 or 2410 (DGS majors must take MCB 2410); and AH 3121 or MCB 4211 which may be taken concurrently; open only to students enrolled in the Diagnostic Genetic Sciences and Medical Laboratory Sciences Programs; others with instructor consent.

DNA and RNA diagnostic technologies used in clinical settings; clinical applications in prenatal diagnosis; cancer management, transplantation, paternity testing, forensic medicine and microbiology.

4234W. Diagnostic Molecular Technologies

(234W) Prerequisite: MCB 2400 or 2410 (DGS majors must take MCB 2410); and AH 3121 or MCB 4211 which may be taken concurrently; ENGL 1010 or 1011 or 2011 or 3800; open only to students enrolled in the Diagnostic Genetic Sciences Program; others with instructor consent.

MOTION PASSED CANR CC 12-13-62

5. Revise: DGS 4235: Laboratory in Molecular Diagnostics Change enrollment restriction to include MLSC students and add DGS 4236 as a prerequisite. Effective Fall 2013.

Current 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 Catalog Copy:

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 and Medical Laboratory Sciences Programs; others with instructor consent.

DNA isolation, blotting techniques, fluorescent in situ hybridization, polymerase chain reaction and Genprobe assay. A fee of \$50 is charged for this course.

REVISED MOTION PASSED CANR CC 12-13-63R1 (3-1-13 meeting)

6. Revise: DGS admission requirements to include MCB 2410 or MCB 2610. Effective Fall 2013.

MOTION PASSED CANR CC 12-13-64

7. Revise: DGS program requirements Drop BIOL option as a program and graduation requirement and remove MCB 2210 from the list. Effective Fall 2013.

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; MATH 1040Q or 1060Q or 1125Q or above; MCB 2000, 2410*, 2610*; STAT 1000Q or 1100Q.

* At least one of these courses must be completed prior to starting the program.

REVISED MOTION PASSED CANR CC 12-13-65R1 (3-1-13 meeting)

V. Report from Academic Programs: Check the electronic catalog copy to be sure all revisions have been made

VI. Other Business: None

VII. The meeting was adjourned at 3:53 pm. The next meeting will be on Friday, January 28 if needed or on regularly scheduled 1st Friday of the Month, February 1, 2013