

CANR Curricula and Courses Committee  
Minutes of the meeting Final Copy  
October 19, 2012

I. The meeting was called to order at 2:05 pm by George Elliott, acting chairman  
Members present were: Marilyn Altobello, Rhonda Brownbill, Sal Frasca, Susan Gregoire, Gary Kazmer & Mark Rudnicki. Pat Jepson was present as representative of Academic Programs.

II. The Minutes of October 5, 2012 were approved as distributed

III. Old Business:

A. AG Biotech Minor – George Elliott contacted Michael Darre, with copies to Gerry Berkowitz and Cindy Tian, plus Cameron Faustman and Susan Gregoire, regarding the scheduling issues faced by students who want to do the minor. No response has been forthcoming.

IV. New Business:

A. The Department of Agricultural and Resource Economics proposed the following:

1. ADD: ARE 5495 Socioeconomic Assessment Tools for Agriculture and Natural Resources (Special Topics Course)

**Description:** A socioeconomic assessment is a way to learn about the social, cultural, economic and political conditions of individuals, groups, communities and organizations. There is no fixed list of topics that are examined in a socioeconomic assessment; however, an assessment is multidisciplinary and commonly identified topics include resource use patterns, stakeholder characteristics, gender issues, stakeholder perceptions, institutions and resource governance, traditional knowledge, community services and facilities, market attributes for extractive uses of resources, market attributes for non-extractive uses of resources, and non-market and non-use values. Socioeconomic assessments vary in the extent they cover these topics, and this will depend on the purpose of the assessment. Socioeconomic assessments can be characterized by two main factors: (1) whether they are participatory or extractive in nature; or (2) whether they are product-oriented or process-oriented.

**Prerequisites:** Consent of Instructor Required. Students are expected to have intermediate microeconomics or equivalent or senior-level environmental and natural resource economics or Masters level microeconomics course or environmental and natural resource economics.

MOTION PASSED CANR CC 12-13-30

B. The Department of Natural Resource and the Environment proposed the following:

1. REVISE: NRE 5575 Natural Resource Applications of GIS

**Current Title and Catalog Copy:**

NRE 5575. Natural Resource Applications of Geographic Information Systems (NRME 377) 3 credits. Lecture.

The principles and applications of computer-assisted spatial data analysis in natural resources management will be covered. Both hypothetical and actual case studies of the use of geographic information systems (GIS) to solve natural resource problems will be discussed. Raster- and vector-oriented, microcomputer-based GIS software will serve as the hands-on tools for students.

**Revised Title and Catalog Copy:**

NRE 5575. Natural Resource Applications of Geographic Information Systems (NRME 377) 4 credits. Two lecture periods, one laboratory, and one discussion. Not open to students who have passed NRE 4575.

The principles and applications of computer-assisted spatial data analysis in natural resources management will be covered. Both hypothetical and actual case studies of the use of geographic information systems (GIS) to solve natural resource problems will be discussed. Raster- and vector-oriented, microcomputer-based GIS software will serve as the hands-on tools for students.

MOTION PASSED CANR CC 12-13-31

C. Allied Health Sciences

1. REVISE: Group B Requirements for AHS major: Independent Study, Internship and Foreign Study credits may only count toward the group B Related Cognate requirement for the Allied Health Sciences major. Effective Fall 2013.

**Current catalog copy:**

The 36-credit major and graduation requirements to the Allied Health Science:

**Group A:** A minimum of 18-21 credits (varies by concentration) in **Major** course work *within* the CANR (course requirements vary by concentration as indicated below).

Students may include a maximum of 6 credits of combined Foreign Study (AH 4093), Independent Study (AH 3099; DIET 3099; DGS 3999; MLSC 4099) and Internship credits (AH 3091) toward the A-3 requirement with advisor and department head approval.

**Revised catalog copy: (remove IS, IN and FS approval for Group A)**

The 36-credit major and graduation requirements to the Allied Health Science:

**Group A:** A minimum of 18-21 credits (varies by concentration) in **Major** course work *within* the CANR. Course requirements vary by concentration as indicated below.

MOTION PASSED CANR CC 12-13-32

2. ADD: AH 3005: Biostatistics for Health Professions. Effective Fall 2013.

Catalog copy:

**3005. Biostatistics for Health Professions**

(Also offered as STAT 3005). Three credits. Prerequisite: A course in pre-calculus or higher; STAT 1000Q or 1100Q or higher. Open to CANR students and Statistics majors, juniors or higher; others with instructor consent. **Not open for credit to students who have passed STAT 4625.**

Introduction to biostatistical techniques, concepts, and reasoning using a broad range of biomedical and public health related scenarios. Specific topics include description of data, statistical hypothesis testing and its application to group comparisons, and tools for modeling different type of data, including categorical, and time-event, data. The course will emphasize the distinction of these methods, their implementation using statistical software, and the interpretation of results applied to health sciences research questions and variables.

MOTION PASSED CANR CC 12-13-33

3. REVISE: Group A-3 option for AHS major, standard plan and all concentrations:  
Add AH 3005: Biostatistics for Health Professions as a group A-3 option.

**Current Catalog copy:**

**Group-A Major Course requirements by concentration:**

**Allied Health Sciences (no concentration) Group A: A-1** AH 2001, 4239 and 4240W; **A-2** and; two of the following: AH 2000, 4242, 4244; **A-3** and; minimum of 8 credits (or three additional courses) from the CANR from the following list of options. Other courses may be used to meet this requirement pending advisor and department head approval.

Courses cannot **also** be used to meet Group A-2 requirement: AH 2000, 3021, 3101, 3121, 3133, 3175, 3203, 3234, 3571, 3574, 4242, 4243, 4244; DIET 3230; DGS 3222, 3226, 4224, 4234, 4246; MLSC 3130; NUSC 2200, 4236, 4250; PVS 3100, 4300

**Allied Health Sciences with Health Promotion Sciences concentration**

**Group A: A-1** AH 2001, 4239 and 4240W; **A-2** AH 3231 and 4242; **A-3** and; minimum of 8 credits (or three additional courses) from the CANR from the following list of options.

Other courses may be used to meet this requirement pending advisor and department head approval. Courses cannot **also** be used to meet Group A-2 requirements: AH 2000, 3101, 3133, 3175, 3203, 3234, 3574, 4243, 4244; DIET 3230; NUSC 2200, 4236, 4250

**Allied Health Sciences with Health Sciences concentration**

**Group A-1:** AH 2001, 4239 and 4240W; **A-2** and; two of the following: AH 2000, 4242, 4244; **A-3** and; minimum of 8 credits (or three additional courses) from the CANR from the following list of options. Other courses may be used to meet this requirement pending advisor and department head approval. Courses cannot **also** be used to meet Group A-2 requirement: AH 3021, 3101, 3121, 3133, 3175; DGS 3222, 3226, 4224, 4234, 4246; MLSC 3130; NUSC 4236, 4250; PVS 3100, 4300

**Allied Health Sciences with Occupational and Environmental Health and Safety**

**concentration: Group A: A-1:** AH 2001 and AH 4221W; **A-2** all of the following: AH 3275, 3570, 3175, and 4241; **A-3:** A minimum of two (minimum of 6 credits) of the following courses: AH 3571, 3573; ANSC 4341, 4246. Other courses may be used to meet this requirement pending advisor and department head approval.

**Revised Catalog copy:**

**Group-A Major Course requirements by concentration:**

**Allied Health Sciences (no concentration)**

**Group A: A-1** AH 2001, 4239 and 4240W; **A-2** and; two of the following: AH 2000, 4242, 4244; **A-3** and; minimum of 8 credits (or three additional courses) from the CANR from

the following list of options. Other courses may be used to meet this requirement pending advisor and department head approval. Courses cannot **also** be used to meet Group A-2 requirement: AH 2000, 3005, 3021, 3101, 3121, 3133, 3175, 3203, 3234, 3571, 3574, 4092, 4242, 4243, 4244; DIET 3230; DGS 3222, 3226, 4224, 4234, 4246; MLSC 3130; NUSC 2200, 4236, 4250; PVS 3100, 4300

**Allied Health Sciences with Health Promotion Sciences concentration**

**Group A: A-1** AH 2001, 4239 and 4240W; **A-2** AH 3231 and 4242; **A-3** and; minimum of 8 credits (or three additional courses) from the CANR from the following list of options. Other courses may be used to meet this requirement pending advisor and department head approval. Courses cannot **also** be used to meet Group A-2 requirements: AH 2000, 3005, 3101, 3133, 3175, 3203, 3234, 3574, 4243, 4244; DIET 3230; NUSC 2200, 4236, 4250

**Allied Health Sciences with Health Sciences concentration**

**Group A-1:** AH 2001, 4239 and 4240W; **A-2** and; two of the following: AH 2000, 4242, 4244; **A-3** and; minimum of 8 credits (or three additional courses) from the CANR from the following list of options. Other courses may be used to meet this requirement pending advisor and department head approval. Courses cannot **also** be used to meet Group A-2 requirement: AH 3021, 3005, 3101, 3121, 3175, 4092; DGS 3222, 3226, 4224, 4234, 4246; MLSC 3130; NUSC 4236, 4250; PVS 3100, 4300

**Allied Health Sciences with Occupational and Environmental Health and Safety**

**concentration: Group A: A-1:** AH 2001 and AH 4221W; **A-2** all of the following: AH 3275, 3570, 3175, and 4241; **A-3:** A minimum of two (minimum of 6 credits) of the following courses: AH 3005, 3571, 3573; ANSC 4341, 4246. Other courses may be used to meet this requirement pending advisor and department head approval.

---

MOTION PASSED CANR CC 12-13-34R1 (2-13-13 E-vote)

REVISED MOTION PASSED CANR CC 12-13-34R2 (3-1-13 Meeting)

4. REVISE: AH 3005: Biostatistics for Health Professions by Crosslisting with STAT 3005. Effective Fall 2013.

MOTION PASSED CANR CC 12-13-35

5. REVISE: the Allied Health Sciences major: Add a concentration in Public Health and Health Promotion. Effective Fall 2013.

**Current Catalog copy:**

The **Health Promotion Sciences** concentration in Allied Health Sciences prepares students interested in working in a setting such as health and social service agencies, worksite health promotion programs, government health agencies, hospital wellness programs, business, industry, and educational settings that emphasize health and wellness. This concentration is also designed for students seeking admission into graduate programs such as the Department of Allied

Health Sciences Master's Program in Health Promotion as well as for those looking to enroll in graduate programs such as Public Health, Gerontology, Health Education, Health Administration, Health Policy and Law, Health Psychology, or the Department of Allied Health Sciences Post-Baccalaureate Certificate in Health Promotion and Health Education.

**Revised Catalog copy: (*change conc. title*)**

The **Public Health and Health Promotion (PHHP)** concentration in Allied Health Sciences prepares students interested in working in a setting such as health and social service agencies, worksite health promotion programs, government health agencies, hospital wellness programs, business, industry, and educational settings that emphasize health and wellness. This concentration is also designed for students seeking admission into graduate programs such as the Department of Allied Health Sciences Master's Program in Health Promotion as well as for those looking to enroll in graduate programs such as Public Health, Gerontology, Health Education, Health Administration, Health Policy and Law, Health Psychology, or the Department of Allied Health Sciences Post-Baccalaureate Certificate in Health Promotion and Health Education.

**Current Catalog copy:**

**Admission – Allied Health Sciences Concentrations** Admission to the Health Sciences, Health Promotion Sciences or Occupational and Environmental Health and Safety concentrations within the Allied Health Sciences major requires a minimum of 45 earned credits, a cumulative GPA of 2.2 or higher, academic good standing, and successful completion of one college level (1000-level or higher) course in each of the following: biology, chemistry, and mathematics as listed below.

**Revised Catalog copy: (*change conc. title*)**

**Admission – Allied Health Sciences Concentrations** Admission to the Health Sciences, **Public Health and Health Promotion** or Occupational and Environmental Health and Safety concentrations within the Allied Health Sciences major requires a minimum of 45 earned credits, a cumulative GPA of 2.2 or higher, academic good standing, and successful completion of one college level (1000-level or higher) course in each of the following: biology, chemistry, and mathematics as listed below.

**New catalog copy:**

**Allied Health Sciences with Public Health and Health Promotion concentration:** AH 1100; BIOL 1107; CHEM 1122 or 1124Q or 1127Q; PHYS 1010Q or CHEM 1125Q or 1128Q; COMS 1000 or 1100; NUSC 1165; PHIL 1000-level; PSYC 1100; PSYC 1101 or 1103; PSYC 2300, 2400; MATH 1040Q or 1060Q or 1125Q or higher; PUBH 1001; 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

**Current Catalog copy:**

**Group B:** A minimum of 15-18 credits in **Related Cognate** course work (varies by concentration) selected based on the student's interest, ability, and that speaks to the student's career goals and interests approved by the advisor and department head. Courses used cannot also be used to meet group A requirements. Courses used to meet the Health Sciences concentration related cognate group B must be from the following subject areas: AH major/Health Sciences concentration Group A-3 courses (not used to meet that requirement) BIOL, CHEM, MCB, PHYS, PNB. Courses used to meet the Occupational and Environmental Health and Safety concentration related cognate group B must be from the following: B-1 Two courses (minimum of 6 credits) consistent with focus (refer to plan of study for options); B-2 9 additional credits at the 2000-level or higher (refer to plan of study for options). Other courses may be used with advisor and department head approval.

**Revised Catalog copy: (add PHHP conc. to Group B requirements; add special courses – follow up from motion #1)**

**Group B:** A minimum of 15-18 credits in **Related Cognate** course work (varies by concentration) selected based on the student's interest, ability, and that speaks to the student's career goals and interests approved by the advisor and department head. Courses used cannot also be used to meet group A requirements. **Students may include a maximum of 6 credits of combined Foreign Study (AH 4093), Independent Study (AH 3099; DIET 3099; DGS 3999; MLSC 4099) and Internship credits (AH 3091) toward the Group B requirement with advisor and department head approval.**

Courses used to meet the Health Sciences concentration related cognate group B must be from the following subject areas: AH major/Health Sciences concentration Group A-3 courses (not used to meet that requirement) BIOL, CHEM, MCB, PHYS, PNB. Other science-based courses may be used to meet this requirement pending advisor and department head approval.

**Courses used to meet the Public Health and Health Promotion concentration related cognate group B must be from the following: B-1 PUBH 3001; B-2 12 additional credits at the 2000-level or higher (refer to plan of study for options). Other courses may be used with advisor and department head approval.**

Courses used to meet the Occupational and Environmental Health and Safety concentration related cognate group B must be from the following: **B-1** Two courses (minimum of 6 credits) consistent with focus (refer to plan of study for options); **B-2** 9 additional credits at the 2000-level or higher (refer to plan of

study for options). Other courses may be used with advisor and department head approval.

**New catalog copy:**

**Group-A Major Course requirements by concentration:**

**Allied Health Sciences with Public Health and Health Promotion concentration**

**Group A: A-1 AH 2001, 4239 and 4240W; A-2 AH 3005, 3175, 3231, and 4244; A-3 and;** minimum of 6 credits (or two additional courses) from the CANR from the following list of options. Other courses may be used to meet this requirement pending advisor and department head approval. Courses cannot **also** be used to meet Group A-2 requirement: **AH 2000, 3021, 3101, 3133, 3203, 3234, 3571, 4242, 4243; DIET 3230; NUSC 2200, 4250**

MOTION PASSED CANR CC 12-13-36

6. REVISE: Allied Health Science Major: DROP the Health Promotion Science Concentration. Effective Fall 2013

MOTION PASSED CANR CC 12-13-37

7. REVISE: Program and Graduation Requirements *for all Allied Health Sciences majors and concentrations*. Add a 1000-level Philosophy course, and COMM 1000 or 1100 Effective Fall 2013

**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 CHEM 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 and Environmental Health and Safety concentration:** AH 1100, ARE 1150 or ECON 1000; BIOL 1107; CHEM 1124Q or 1127Q; CHEM 1125Q or 1128Q; MATH 1060Q or 1125Q or 1131Q or higher; NRE 1000; PHYS 1010Q or PHYS 1201Q or higher; PUBH 1001; 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).

**Revised Catalog copy: (*change section heading; add Phil and Comm courses as required*)**

*NOTE: the change for the new PPHP concentration is listed under motion 5.*

**Required courses by concentration:**

**Allied Health Sciences (no concentration):** AH 1100; BIOL 1107; CHEM 1122 or 1124Q or 1127Q; CHEM 1125Q or CHEM 1128Q or PHYS 1010Q; **COMM 1000 or 1100**; MATH 1040Q or 1060Q or 1125Q or higher; NUSC 1165; **PHIL 1000-level**; PSYC 1100, PSYC 1101 or 1103, PSYC 2300, 2400; 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; BIOL 1107; CHEM 1124Q or 1127Q; CHEM 1125Q or 1128Q; CHEM 2241 and 2242 or 2443, 2444, and 2445; **COMM 1000 or 1100**; MATH 1060Q or 1125Q or higher; **PHIL 1000-level**; PHYS 1201Q and 1202Q or PHYS 1401Q and PHYS 1402Q or PHYS 1501Q and 1502Q; PSYC 1100; 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 and Environmental Health and Safety concentration:** AH 1100; ARE 1150 or ECON 1000; BIOL 1107; CHEM 1124Q or 1127Q; CHEM 1125Q or 1128Q; **COMM 1000 or 1100**; MATH 1060Q or 1125Q or 1131Q or higher; NRE 1000; **PHIL 1000-level**; PHYS 1010Q or PHYS 1201Q or higher; PUBH 1001; 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

MOTION PASSED CANR 12-13-38

8. REVISE: DGS 4224 Cancer Cytogenetic. Change from 2 to 3 credits. Effective Spring 2013

**Current Catalog copy:**

**4224. Cancer Cytogenetics**

(224) Two credits. Prerequisite: DGS 3222; open to students in the Diagnostic Genetic Sciences Program; others who have met the prerequisites.

Genetic basis of cancer, chromosome instability syndromes, processing of tumor samples, chromosomal changes of solid tumors and hematologic malignancies, and nomenclature of acquired changes.

**Revised catalog copy: (*change credits and enrollment*)**

**4224. Cancer Cytogenetics**

(224) **Three** credits. Prerequisite: DGS 3222. **Open to juniors or higher.**

Genetic basis of cancer, chromosome instability syndromes, processing of tumor samples, chromosomal changes of solid tumors and hematologic malignancies, and nomenclature of acquired changes.

MOTION PASSED CANR CC 12-13-39

9. REVISE: DGS 4246 Contemporary Issues in Human Genetics. Delete "MCB 2400, 2410 or another course in genetics approved by the instructor, which may be concurrent," as a prerequisite and update course description. Effective Fall 2013.

**Current Catalog copy:**

**4246. Contemporary Issues in Human Genetics**

(246) Three credits. Prerequisite or corequisite: MCB 2400, 2410 or another course in genetics approved by the instructor; open to juniors or higher.

Historical and contemporary issues relevant to human genetics practice, research, education and ethics.

**Revised catalog copy: (*drop prerequisite and change description*)**

**4246. Contemporary Issues in Human Genetics**

(246) Three credits. Open to juniors or higher.

Historical and contemporary issues relevant to human genetics, including the layperson's understanding of genetic testing and diagnosis; and the ethical, legal, and social issues associated with them.

*Note:* the committee questioned whether removing the prerequisite might have unintended consequences since both MCB 2400 and 2410 require BIOL 1107.

MOTION PASSED CANR CC 12-13-40

D. Plant Science and Landscape Architecture

1. REVISE: Landscape Design Minor: Drop the requirement for HORT 3710 Design of Small Spaces in the Landscape Design Minor. Effective immediately.

**Current Catalog Copy:**

All of the following courses:

HORT 3710 Design of Small Spaces

LAND 2110 Landscape Architecture: Graphics I – Design Drawing

LAND 2210 Landscape Architecture: The Common (Shared) Landscape of the USA: Rights, Responsibilities, and Values

And three from among the following courses:

HORT 3410 Woody Landscape Plants I

HORT 2430 Herbaceous Ornamental Plants

HORT 2750 Landscape Plant Maintenance

LAND 2220 Landscape Architecture: Theory II – Design History

LAND 3230W Landscape Architecture: Theory III – Environmental Planning

TURF 3270 Golf Course Design

**Revised Catalog Copy:**

All of the following courses:

LAND 2110 Landscape Architecture: Graphics I – Design Drawing

LAND 2210 Landscape Architecture: The Common (Shared) Landscape of the USA: Rights, Responsibilities, and Values

And three from among the following courses:

HORT 3410 Woody Landscape Plants I

HORT 2430 Herbaceous Ornamental Plants

HORT 2750 Landscape Plant Maintenance

LAND 2220 Landscape Architecture: Theory II – Design History

LAND 3230W Landscape Architecture: Theory III – Environmental Planning

TURF 3270 Golf Course Design

MOTION PASSED CANR CC 12-13-41

V. Report from Academic Programs:

A. Practices related to Reserve Capacities are under scrutiny by the Registrar. The intent is to provide more transparency for students attempting to register for courses.

B. Further efforts are being made to allow generation of the final approved Plan of Study from the online Academic Requirements report.

C. The recently revised CANR residency requirement will be reflected in the Academic Requirements report.

VI. Other Business:

A. 2014 Academic Materials Fees – Form and Instructions – was handed out.

VII. Adjourn Next meeting on Friday, November 2, 2 pm. York Room in GW (M. Darre will be absent, G. Elliott will chair)