

6 November 2005

**College of Liberal Arts and Sciences**

**Committee on Curricula and Courses**

**Minutes of the Meeting of 25 October 2005**

**Approved 8 November 2005**

Chair John Manning called the meeting to order in Room 162 of the Thomas Dodd Research Center at 3:35 PM.

**Present:** Bloomfield, Paul (Philosophy); Buck, Ross (Communications Sciences); Gajewski, Jon (Linguistics); Gallo, Robert (PNB); Gross, David (for Leibowitz, MATH); Hennig, Rob (PSYCH); Hiskes, Anne (Associate Dean); Linnekin, Jocelyn (ANTH); McComiskey, Marita (WS); Michel, Bob (CHEM); Noll, Ken (MCB); Pressman, Jeremy (POLS); Rawitscher, George (PHYS); Shoemaker, Nancy (HIST); Turley, Hans (ENGL); Vias, Alex (GEOGR); Worcester, Wayne (JOUR)

**Visitors:** Bridgeman, Jim (Math); Capshaw Smith, Katharine (English); Lillo-Martin, Diane (LING)

**Preliminaries**

Hans Turley was appointed secretary for this meeting

Minutes of 18 October 2005 were approved with minor changes

**Chair's report:** course renumbering is fast upon us. Suggested that all programs have renumbering done no later than March break. Committee agreed that uniform college renumbering policy be agreed by the December meeting; the chair will circulate an interim reminder of department heads

**Re: Anthropology proposals 153-185 update:** some were submitted without revision, but too late for this meeting's agenda. Other uncertainties remain, upon which the chair has solicited comment from the department head and deanery. Much discussion ensued about resources and staffing for the 30 courses.

The **international studies proposals** (3) were sent back 10/18, and await further comment from the originators.

Anthropology Special Topics 298, for which approval was given by the chair awaiting the instructor's CV, was subsequently withdrawn, to be offered as a 295.

**Old Business**

a) **BS Degree** and b) **2005-126 Change Minor: Biomedical Engineering** (postponed 11 October): movement on both fronts reported. Further discussion on BS Degree below..

**2005-135. 2005-135. Add HIST 2xxW/LAMS2xxW. History of Migration in *Las Américas***

(NOTE: postponed 11 October; approved as revised.)

Final catalog listing:

HIST 2xx/LAMS2xx. History of Migration in *Las Américas*

Either semester. Three credits. Open to sophomores or higher. Recommended Preparation: LAMS 190, ANTH 227, HIST 280, HIST 282, or HIST 278/PRLS 220. Spanish useful, but not required. Consent of Instructor. *Gabany-Guerrero, Overmyer-Velázquez*

Applies broad chronological and spatial analyses of origins of migration in the Americas to the experiences of people of Latin American origin in Connecticut. Addresses a range of topics from the initial settlement of the Americas to 21st century migrations.

**New Business: Departmental Course Proposals**

**2005-186. 2005-186. Proposal to Change MCB 241W Research Literature in Molecular and Cell Biology. Approved.**

Final catalog listing:

MCB241W Research Literature in Molecular and Cell Biology.

Second semester. Three credits. Open only with consent of instructor. Prerequisite: ENGL 105 or 110 or 111 or 250. Recommended preparation: One 200 level course in MCB. With change in content, may be repeated for credit. Staff

Discussion of current research in molecular and cell biology.

**2005-187. 2005-187. Proposal to Add PNB 28X Molecular Physiology of the Heart. Approved.**

Final catalog listing:

PNB 28X. Molecular Physiology of the Heart

First semester. Three credits. Prerequisite: PNB 274-275 and (MCB 203 or 204). Recommended preparation MCB 210. *Proenza*

Introduction to the molecular basis of cardiac physiology. Electrical excitation and conduction, excitation-contraction coupling, contractile proteins, regulation, pathophysiology. Focus on modern molecular methods and topics of current scientific investigation.

**2005-188. 2005-188. Proposal to Change the Geography Major. Approved with editorial changes. (2005-199, GEOG 234 below, considered in the same discussion).**

Final Catalog Listing:

Geography is a multidimensional discipline that analyzes the interactions between people and their environments. Our geographers teach courses and engage in research on a wide range of relevant and timely topics such as urban sprawl, the nature and impact of migration, globalization of the economy and international trade, the spatial prevalence of disease, regional development, global climatic change, environmental degradation and restoration, watershed and landscape change, and the analysis and display of spatial data using geographic information systems (GIS) technology.

For students whose goals are the bachelor's degree, coursework in geography enables graduates to find employment in the private and public sectors while providing both the regional and global perspective required of informed citizens. Our students have gone on to work as urban and regional planners, marketing specialists, environmental program managers, geographic information systems specialists, location analysts, and transportation planners. Students with a BA degree in geography are also prepared to move on to graduate school to pursue MA and Ph.D degrees which enables them to teach at the college level or to secure higher ranking positions in the public and private sectors.

Requirements for the Major. The geography major requires 24 credits in 200-level geography courses and 12 credits of related course work in other departments. Majors complete a basic core of 3 courses: GEOG 200, GEOG 205, and one methods course (choice of GEOG 232, GEOG 240, GEOG 242Q, GEOG 246), and 15 additional credits, including at least one "W" course in geography numbered 280 or higher in consultation with their departmental advisor.

The writing in the major requirement for Geography can be met by passing any of the following geography courses: GEOG 280W, 286W, 287W, or 288W.

The information literacy requirement in Geography can be met by passing any of the following geography courses GEOG 280W, 286W, 287W, or 288W.

The computer technology exit requirement in Geography can be met by passing one of the following courses: GEOG 232, GEOG 240, GEOG 242Q, GEOG 246.

A minor in Geographic Information Science is described in the Minors section.

**2005-189. 2005-189. Change the Actuarial Science Major (MATH). Approved with editorial change.**

Final catalog listing:

Bachelor of Science or Arts in Mathematics-Actuarial Science: The requirements for the B.S. or B.A. degree in Mathematics-Actuarial Science are 36 credits at the 200 level in Mathematics, Statistics, Business, and related areas (in addition to MATH 210 or 230 or 245). The required courses are MATH 227 (or 246), 231, 276, 285, 287-288, STAT 230-231, and FNCE 221 or 225. Students should include ECON 111 and 112, a Computer Science course, and ACCT 131 and 200 in their program of study as early as possible.

Admittance to the University of Connecticut's Actuarial Science program will be available only to students who meet the following two requirements. First, the student must have a total grade point average of 2.75 or higher or a grade point average of 3.0 or higher in mathematics. Second, the student must satisfy one of the following:

1. successfully completed Math 113 or 115 with a grade of at least B;
2. successfully completed an honors calculus course with a grade of at least C;
3. received AP credit for Math 115; or
4. received a passing score on one or more of the actuarial examinations.

Students not satisfying one or more of the requirements may be admitted into the program by the Mathematics Department Actuarial Committee.

To remain as an Actuarial Science major, the student is expected to maintain a total grade point average of 2.75 or higher.

**2005-190. Change MATH 283, 285, 287-288, 289 (Actuarial Science). Approved with changes.**

Final Catalog Copy:

Math 283: Probability Problems. Either semester. One credit.

Prerequisite: MATH 210, 230 or 245; and Math 231.

Preparation through problem solving for the probability actuarial examination, which tests a student's knowledge of the fundamental probability tools for quantitatively assessing risk. Recommended prior knowledge: a thorough command of probability, as well as basic concepts in insurance and risk management.

Math 285: Financial Mathematics I. First semester. Three credits.

Prerequisite: MATH 116, 136 or 244.

Fundamental concepts of financial mathematics, with applications in calculating present and accumulated values for various streams of cash flows as a basis for future use in: reserving, valuation, pricing, duration calculation, asset/liability management, investment income, capital budgeting and valuing contingent cash flows.

Math 287: Actuarial Mathematics I. First semester. Four credits.

Prerequisite: MATH 231 or STAT 230; and MATH 285

Provides the theoretical basis of actuarial models and the application of those models to insurance and other financial risks. The concept of "model" in an actuarial context, how and why models are used, their advantages and their limitations. Extracting important results from models for the purpose of making business decisions, and approaches to determining these results.

Math 288: Actuarial Mathematics II. Second semester. Four credits.

Prerequisite: MATH 287

A continuation of Actuarial Mathematics I. This course, along with Math 287, helps students prepare for the actuarial examination on models for quantifying risk.

Math 289: Financial Mathematics II. Second semester. Three credits.

Prerequisite: MATH 285 and ACCT 131

Theory and practice of corporate finance. The course satisfies the finance and investment learning objectives established by the Society of Actuaries in order to qualify for Validation by Educational Experience for Corporate Finance.

**2005-191. 2005-191. Add Math 236, 238, 276, 280, 284 (Actuarial Science). Approved with changes.**

Final catalog copy:

Math 236: Introduction to Actuarial Science

Three credits. Both semesters. Prerequisite: Consent of instructor

An introduction to actuarial science, covering many of the topics in the first Foundations of Actuarial Practice module, Role of the Actuary, of the Society of Actuaries. Topics include: what an actuary is and does; external forces that influence actuarial work; and the framework and processes actuaries use to perform actuarial work using Microsoft Excel.

MATH 238: Actuarial Statistics

Three credits. First semester. Prerequisite: MATH 231 and STAT 230

Regression and time series applied to actuarial science. The course covers the learning objectives established by the Society of Actuaries for Validation by Educational Experience in Applied Statistics.

MATH 276: Actuarial Models

Three credits. First semester. Prerequisite: MATH 231 or STAT 220 or 230; and Math 285

Introduction to the design of computerized simulations for analyzing and interpreting actuarial and financial problems. This course, together with Math 392 and Math 393, helps the student prepare for the actuarial examination on the construction and evaluation of risk models.

MATH 280: Financial Mathematics Problems

One credit. Both semesters. Prerequisite: MATH 285.

Preparation for the financial mathematics actuarial examination, which tests a student's knowledge of the theory of interest and financial economics at an introductory level.

MATH 284: Advanced Financial Mathematics

Three credits. First semester. Prerequisite: MATH 276 and 289.

Advanced topics in financial mathematics such as single period, multi-period and continuous time financial models; Black-Scholes formula; interest rate models; and immunization theory.

**2005-192. Change MCB Major [to reflect change of MCB 225]. Approved.**

Final catalog copy:

## Molecular and Cell Biology Major

This B.S. program is suitable for students with interests in biology at the cellular and subcellular level, including the areas of biochemistry, cell biology, developmental biology, molecular genetics, and microbiology, and their applications in biotechnology and medical science. Many opportunities for independent research projects in these areas are open for undergraduates.

The following 100's level courses are required: BIOL 107; CHEM 127, 128; or 124, 125, 126; MATH 115, 116 or 112, 113, 114; and PHYS 131, 132 or 121, 122, 123.

Courses required for the major: at least 24 credits in MCB courses including:

Group 1: At least 3 of the following core courses: MCB 200 (Note: MCB 213 may be substituted for MCB 200), 204, 210, 229

Group 2: CHEM 243 and 244

Group 3: Laboratory requirement: At least 3 laboratory courses chosen from the following list:

MCB 203, 204, 213, 214, 215, 225W, 226W, 229, 233, 235, 240W, 299 Independent Study (may be repeated, but only 3 credits may count toward the 24 credits of required MCB courses)

For breadth of study in biology, it is recommended that students take PNB 250 and EEB 244 or 245. Majors must complete at least 24 credits in MCB courses at the 200 level or above.

Where appropriate, a course may fulfill more than one requirement; e.g., MCB 204 and 229 count towards the Group 1 requirement as well as the Group 3 Laboratory requirement. BIOL 295 may be used to count toward the 24 credits of required MCB courses.

To satisfy the MCB writing in the major and information literacy competency requirements, all students must take one of the following courses: MCB 225W, 226W, 240W, 241W, 292W; EEB 244W or 245W; or any 200-level W course approved for this major.

A minor in Molecular and Cell Biology is described in the *Minors* section.

### **2005-193. 2005-193. Add LING 150. Introduction to Sociolinguistics of the Deaf Community Approved with changes.**

Final catalog listing:

LING 150. Introduction to Sociolinguistics of the Deaf Community

Either semester. Three credits.

Sociolinguistics, demographics of the Deaf community; study of Deaf subgroups with different sociological, linguistic and cultural backgrounds; sociolinguistic integration of community members with the larger population in their cultural/ethnic community. Knowledge of American Sign Language not required.

**2005-194 and 2005-195 (considered together). Proposal to change LING 321. Syntax 1 and LING 322. Syntax II. Approved.**

Final catalog listing:

LING 321. Syntax I

3 credits. Seminar. Open to graduate students in Linguistics, others with permission. Transformational analysis within a Chomskyan framework; deep structure, surface structure, universal conditions on the form and application of transformational rules.

LING 322. Syntax II

5 credits. Seminar. Prerequisite: LING 321.

Transformational analysis within a Chomskyan framework; deep structure, surface structure, universal conditions on the form and application of transformational rules.

**2005-196. 2005-196. Change the MATH Major. Approved.**

Final catalog copy (excerpt: expansion of prohibitions list):

MATH 200, 201W, 202W, 242W, 247Q, 248Q, and 291W may not be counted in any of the major groups listed below.

**2005-197. 2005-197. Add ENGL 1XX-W Literature and the Creative Process. Approved with editorial**

**changes.**

Final catalog listing:

ENGL 1XX-W Literature and the Creative Process. Either semester. Three credits. Prerequisite: ENGL 110 or 111.

Examination of the creative process by studying literary texts at various stages of their development.



**2005-198. 2005-198. Add POLS 3XX. POLS 3xx. International Security. Approved with editorial changes.**

Pending catalog copy:

POLS 3xx. International Security Three credits. Seminar.

Political and military issues as they intersect at the international level, such as war, terrorism, alliances, and intervention.

**2005-199. Change GEOG 234. The Geography of Economic Development. Approved.**

Final catalog listing:

GEOG 234. The Geography of Economic Development. Second semester. Recommended preparation: GEOG 160 or GEOG 165 or GEOG 200.

Analysis of processes and patterns of economic organization and spatial change at the international, national and intra-national scales. Examines development from both linear (neo-classical) and structuralist (political economy) perspectives, and emphasizes relationships between advanced and developing economies within the context of the global economy.

**4. Old Business.** BS Degree changes. Comment by Michel and others on present state of discussion among departments. Negotiations continue. The C&C Committee has to date not ruled that a compromise be mandated.

Respectfully submitted,

Hans Turley