

College of Liberal Arts and Sciences, Committee on Curricula and Courses, Approved Minutes of December 11th, 2012 meeting

Chair: Robert G. Michel (CHEM).

Members present: Rory McGloin (COMM), Davita Silfen Glasberg (CLAS), Robert Henning (PSYC), Albert Fairbanks (ENGL), Richard Rockwell (SOC), Boris Sinkovic (PHYS), Richard Langlois (ECON), Matt Singer (POLA), Robert G. Michel (CHEM), Micki McElya (HIST), Emily Myers (SLHS), Lionel Shapiro (PHIL), Katrina Higgins (CLAS), Jon Gajewski (LING), Robert Wyss (JOUR), Rick Vitale (STAT), Eldridge Adams (EEB), David Knecht (MCB), Shannon Weaver (HDFS)

Visitors: Rich Hiskes (HRTS), George Rawitscher (Physics), Yung Choi (Math), Eduardo Urios-Aparisi (LCL)

Preliminaries

The Chair called the meeting to order at 3:33 p.m.

Matthew Singer was appointed secretary *pro tem*.

The Minutes of the meeting of November 13, 2012 were approved unanimously by voice vote.

Proposals for reconsideration

2012-101 New course SPAN 3XXX Spanish for the Green Industry - postponed

The instructor for this course, Eduardo Urios-Aparisi, was on hand to answer questions that arose at the last meeting, primarily concerning prerequisites.

New Proposals submitted for consideration

2012-105 Add course HIST 1600

2012-106 Change title-LAMS 1190 1190W

2012-107 LAMS 1190-Cross-list with HIST 1600

Approved Catalog Copy:

LAMS 1190. Introduction to Latin America and the Caribbean

Three credits. (Also offered as HIST 1600)

Multidisciplinary exploration of the historical development of such aspects of Latin America and the Caribbean as colonization and nation formation; geography and the

environment; immigration and migration; race, ethnicity, and gender in society, politics, economy, and culture. CA 1. CA 4-INT.

LAMS 1190W. Introduction to Latin America and the Caribbean

Three credits. Prerequisite: ENGL 1010 or 1011 or 2011 or 3800

HIST 1600. Introduction to Latin America and the Caribbean

Three credits. (Also offered as LAMS 1190)

Multidisciplinary exploration of the historical development of such aspects of Latin America and the Caribbean as colonization and nation formation; geography and the environment; immigration and migration; race, ethnicity, and gender in society, politics, economy, and culture. CA 1. CA 4-INT.

2012-108 Change HRTS minor

Approved Catalog Copy:

Human Rights

This minor provides interdisciplinary instruction in theoretical, comparative, and historical perspectives on human rights through classroom courses, and valuable practical experience in the human rights field through a supervised internship. Fifteen credits at the 2000-level or above are required; at least six credits from Group A (Core Courses); no more than six credits from Group B (Electives); and three credits from Group C (Internship). No more than six credits taken in any one department may be applied to this minor.

Group A. Core Courses.

[HRTS 3149](#), [HRTS/ENGL 3631](#); [HRTS/POLS 3042](#); [POLS/HRTS 3212](#), [3428](#); [HIST/HRTS 3201](#), [3202](#); [SOC/HRTS 3831](#), [3837](#)

Group B. Electives.

[AFAM 3224](#); [AFAM/HIST/HRTS 3563](#); [AFAM/HRTS/SOCI 3505](#), [3825](#); [ANTH 3026](#); [ANTH/WGSS 3350](#); [ANTH/HRTS 3028](#), [3153W](#); [AASI 3215](#); [AASI/HIST 3531](#); [AASI 3221/HRTS 3571/SOCI 3221](#); [AASI 3222/HRTS 3573/SOCI 3222](#); [DRAM/HRTS 3139](#); [ECON 2126](#), [ECON 2127](#), [2198](#), [3473](#); [ENGL 3629](#); [ENGL/HRTS 3619](#), [3631](#); [HIST/HRTS 3207](#); [HIST/WGSS 3562](#); [HIST 3570](#), [3995](#); [HIST 3575/HRTS 3221/ PRLS 3221](#); [HRTS 3293](#), [3295](#), [3298](#), [3299](#); [HRTS/POLS 3418](#), [3430](#), [3807](#); [HRTS/SOCI 3421](#), [3429](#), [3801](#); [HRTS/WGSS 2263](#); [PHIL 2215](#), [3218](#), [3220](#); <http://www.catalog.uconn.edu/phil.htm> - [3220PHIL/HRTS 2170W](#), [3219](#); [SOCI 3503](#)

Group C. Internship: HRTS 4291

The minor is offered by the [College of Liberal Arts and Sciences](#). For more information, contact Richard Hiskes in the Political Science department.

PLAN OF STUDY: Human Rights Minor (Revised 11/2012)

Name of Student: _____

The Human Rights Minor:

Fifteen (15) credits at the 2000 or 3000 level are required. Students take six credits from Core Courses (Group A); six credits from Electives (Group B); and three credits of Internship (Group C). More than six credits may not be taken in one department.

Cross-listed courses appear under both the primary department and HRTS, but they may only count once toward the minor requirement.

Group A – Core Courses (6 credits):

HIST: 3201, 3202

POLS: 3042, 3212

HRTS: 3042, 3201, 3202, 3212

SOC/HRTS 3831; 3837

POLS/HRTS 3428

HRTS 3231

ENG/HRTS 3631

Group B – Electives (6 credits):

ANTH: 3026, 3028, 3153W, 3350

ECON: 2126, 2127, 2198, 3473

ENGL: 3619, 3629, 3631

HIST: 3207, 3531, 3562, 3563, 3570, 3575, 3770

HRTS: **2170W**, 3028, 3042, 3153W, 3207, 3219, 3220, 3221, 3263, 3293, 3295, 3298, 3299, 3418, 3421, 3429, 3505, 3563, 3571, 3573, 3619, 3631, 3801, 3807, 3825, 3831

PHIL: 2215, 2245, 3218, 3219, **3220, 2170W**

POLS: 3418, 3807

PRLS: 3221

SOCI: 3221, 3222, 3421, 3429, 3503, 3505, 3701, 3801, 3825

WS: 3263

DRAM 4135/HRTS 3135

SOC/HRTS 3835

POLS/HRTS 3430

Group C – Internship (3 credits): **HRTS:** 4291

NOTE: Completion of a minor requires that a student earn a C (2.0) or better in each of the required courses for that minor. A maximum of 3 credits towards the minor may be transfer credits of courses equivalent to University of Connecticut courses. Substitutions are not possible for required courses in a minor.

Consult your advisor while completing this plan. **An approved final plan of study must be filed with the registrar during the first four weeks of classes of the semester in which a student expects to graduate.**

SID#: _____

Expected date of graduation: _____

This plan is for the requirements of the _____ catalogue.

Student Signature _____ Date

I approve the above program for the Minor in Human Rights.

(signed) _____

Richard P. Hiskes, Professor, _____ Date

Dept. of Political Science

Director of Human Rights Minor

A. In information near the top of the form:

NOTE: Completion of a minor requires that a student earn a C (2.0) or better in each of the required courses for that minor. A maximum of 3 credits towards the minor may be transfer credits of courses equivalent to University of Connecticut courses. Substitutions are not possible for required courses in a minor.

B. In information at the bottom of the form:

Name of Student: _____

I approve the above program for the (B.A. or B.S.) Minor in (insert name)

(signed) _____ Dept. of (insert name)

Minor Advisor

2012-109 Change MATH major description

The Physics and math representatives asked that kudos be given to Marianne Buck for her shepherding of these programs in the catalog stages. The Committee concurred.

Approved Catalog Copy:**Mathematics**

The Mathematics Department offers programs of study in Mathematics, Applied Mathematical Sciences, Actuarial Science (in cooperation with the [School of Business](#)), Mathematical Statistics (in cooperation with the [Department of Statistics](#)), and **Mathematics-Physics** (in cooperation with the [Department of Physics](#)). [MATH 2010Q](#), [2011Q](#), [2194W](#), [2720W](#), [2784](#), [2794W](#), and [3670W](#) and [STAT 3484](#) and [3494W](#) may not be counted in any of the major groups listed below.

The Department offers both a Bachelor of Science and a Bachelor of Arts degree in Mathematics, Applied Mathematical Sciences, Mathematics-Statistics, and Mathematics-Actuarial Science **and a Bachelor of Science in Mathematics-Physics**. The Bachelor of Science program provides in-depth training in Mathematics as preparation for graduate study or for participation in scientific and engineering teams in government, industry, or research laboratories. The Bachelor of Arts degree is designed to provide training in contemporary mathematics without the depth and concentrated specialization required for the Bachelor of Science program. To satisfy the writing in the major and information literacy competencies in the Bachelor of Arts in Mathematics, the Bachelor of Science in Mathematics, the Bachelor of Arts in Applied Mathematical Sciences, and the Bachelor of Science in Applied Mathematical Sciences, all students must pass one of the following courses: [MATH 2194W](#), [2720W](#), [2794W](#), or [3796W](#)

Bachelor of Science in Mathematics: The requirements for the B.S. in Mathematics are:

- (1) either (i) [MATH 2110Q](#) (or [2130Q](#)), [2210Q](#), [2410Q](#), (or [2420Q](#)), [2710](#) (or [2141Q-2142Q](#)) or (ii) [MATH 2141Q](#), [2142Q](#), [MATH 2143Q](#), [2144Q](#);
- (2) [MATH 3150](#) (or [4110](#)), [3151](#), [3230](#) (or [4210](#));
- (3) At least 6 additional credits from any of the following courses: [MATH 2360Q](#), [3146](#), [3160](#), [3170](#), [3210](#), [3231](#), [3240](#), [3250](#), [3260](#), [3270](#), [3330](#) (or [4310](#)), [3370](#), [3410](#), [3430](#), [3435](#), [3510](#), [3511](#), [3710](#), [4735](#), and approved sections of [3094](#) and [3795](#);
- (4) At least 3 additional credits from any of the following courses: [MATH 3210](#), [3231](#), [3240](#), [3250](#), [3330](#) (or [4310](#)), and [3370](#). In addition, at least 12 credits at the 2000-level or above in approved related areas are required.

Bachelor of Arts in Mathematics: The requirements for the B.A. in Mathematics are 27 credits of 2000-level or above course work in Mathematics and 12 credits of course work in approved related areas. The required courses are:

- (1) either (i) [MATH 2110Q](#) (or [2130Q](#)), [2210Q](#), [2410Q](#) (or [2420Q](#)), [2710](#) (or [2141Q-2142Q](#)) or (ii) [MATH 2141Q](#), [2142Q](#), [2143Q](#), [2144Q](#);
- (2) [MATH 3150](#) (or [4110](#)), [3230](#) (or [4210](#));
- (3) At least 3 additional credits from any of the following courses: [MATH 3151](#), [3210](#), [3231](#), [3240](#), [3250](#), [3330](#) (or [4310](#)), and [3370](#). The remaining courses may come from any 2000-level or above Mathematics courses.

Applied Mathematical Sciences

Bachelor of Science in Applied Mathematical Sciences: The requirements for the B.S. in Applied Mathematical Sciences are

- (1) either (i) [MATH 2110Q](#) (or [2130Q](#)), [2210Q](#), [2410Q](#) (or [2420Q](#)), [2710](#) (or [2141Q-2142Q](#)) or (ii) [MATH 2141Q](#), [2142Q](#), [2143Q](#), [2144Q](#);
- (2) [MATH 3150](#) (or [4110](#)), [3410](#), [3510](#), and [3511](#);
- (3) Two courses selected from [MATH 3146](#), [3151](#), [3160](#), [3170](#), [3270](#), [3430](#), [3435](#), [3710](#), and approved sections of [3094](#) and [3795](#);
- (4) At least 3 additional credits from [MATH 2360Q](#), [3160](#), [3210](#) (or [4210](#)), [3230](#), [3231](#), [3240](#), [3250](#), [3260](#), [3330](#) (or [4310](#)), [4735](#), and approved sections of [3094](#) and [3795](#). In addition, at least 12 credits at the 2000-level or above in approved related areas are required

Bachelor of Arts in Applied Mathematical Sciences: The requirements for the B.A. in Applied Mathematical Sciences are 27 credits of 2000-level or above course work in Mathematics and 12 credits of course work in approved related areas. The required courses for the degree are [MATH 2110Q](#) (or [2130Q](#) or [2143Q](#)), [2210Q](#) (or [2143Q-2144Q](#)), [2410Q](#) (or [2420Q](#) or [2144Q](#)), [3510](#), [3410](#), and [3511](#). The remainder of the 27 credits of

Mathematics must be chosen from [MATH 2710](#), [3146](#), [3150](#) (or [4110](#)), [3160](#), [3170](#), [3210](#) (or [4210](#)), [3250](#), [3270](#), [3430](#), [3435](#), and [3710](#)

Mathematics/Statistics

Bachelor of Science or Arts in Mathematics-Statistics: The requirements for the B.S. or B.A. in Mathematics-Statistics degree are 36 credits at the 2000-level or above in Mathematics and Statistics (in addition to [MATH 2110Q](#) or [2130Q](#)), with at least 12 credits in each department. The required courses for the Mathematics-Statistics major are [MATH 2210Q](#) or [3210](#) or ([2143Q](#) and [2144Q](#)); [2410Q](#) (or [2144Q](#)); and [STAT 3375Q](#) and [3445](#). To satisfy the writing in the Major and Information Literacy competencies, all students must pass one of the following courses: [MATH 2194W](#), [2720W](#), [2794W](#), [3796W](#), or [STAT 3494W](#).

Mathematics/Actuarial Science

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 2000-level or above in Mathematics, Statistics, Business, and related areas (in addition to [MATH 2110Q](#) or [2130Q](#) or [2143Q](#)). The required courses are [MATH 2210Q](#) (or [2144Q](#)), [2620](#), [3160](#), [3630](#) - [3631](#); [STAT 3375Q-3445](#), either [MATH 363 2](#) or [3634](#); and either [MATH 2610](#), [FNCE 3221](#) or [4325](#). Students should include [ECON 1201](#) and [1202](#), a Computer Science course, and [ACCT 2001](#) and [2101](#) in their program of study as early as possible. To satisfy the writing in the Major and Information Literacy competencies, all students must pass one of the following courses: [MATH 2194W](#), [2720W](#), [2794W](#), [3670W](#), or [3796W](#).

Admission to the 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 3.2 or higher or a grade point average of 3.2 or higher in mathematics. The student must also satisfy one of the following:

1. completed [MATH 1121Q](#), [1126Q](#), or [1131Q](#) 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 [1131Q](#); 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 3.2 or higher.

Mathematics-Physics

Bachelor of Science in Mathematics-Physics:

The B.S. degree in Mathematics-Physics may be completed by following either track A, which has a physics emphasis, or track B, which has a mathematics emphasis. Students in track A should choose an advisor from the Physics Department, and those in Track B should choose an advisor from the Mathematics Department. In either track the writing in the major and information literacy competencies are met using [PHYS 2501W](#).

The required courses for the Mathematics-Physics Major Track A (Physics Emphasis) are:

- (1) either: i) [MATH 2110Q](#) (or [2130Q](#) or [2143Q](#)) and [2210Q](#) and [2410Q](#) (or [2420Q](#)) or: ii) [MATH 2141Q](#) and [2142Q](#) and [2143Q](#) and [2144Q](#).
- (2) All of: [MATH 3146](#), [3410](#), [3510](#) and [PHYS 2300](#), [2501W](#), [3101](#), [3201](#), [3202](#), [3300](#), [3401](#).
- (3) Any nine credits from: [PHYS 2200](#), [2400](#), [2502](#), [3102](#), [3103](#), [3104](#), [3150](#), [3989](#), [4093](#), [4094](#), [4095](#), [4096](#), [4098](#), [4099](#), [3402](#), [4100](#), [4130](#), [4140](#), [4150](#), [4210](#), [4300](#), [4350](#), [4900](#).

The required courses for the Mathematics-Physics Major Track B (Mathematics Emphasis) are:

- (1) either: i) [MATH 2110Q](#) (or [2130Q](#) or [2143Q](#)) and [2210Q](#) and [2410Q](#) (or [2420Q](#)) and [2710](#) (or [2141Q](#) and [2142Q](#)) and [3146](#), or: ii) [MATH 2141Q](#) and [2142Q](#) and [2143Q](#) and [2144Q](#) and [3146](#)
- (2) All of: [PHYS 2300](#), [2501W](#), [3101](#), [3201](#), [3202](#), [3401](#).
- (3) Any 3 credits from: [Phys 2200](#), [2400](#), [2502](#), [3102](#), [3103](#), [3104](#), [3150](#), [3300](#), [3989](#), [4093](#), [4094](#), [4095](#), [4096](#), [4098](#), [4099](#), [3402](#), [4100](#), [4130](#), [4140](#), [4150](#), [4210](#), [4300](#), [4350](#), [4900](#).
- (4) Any 4 courses from [MATH 3150](#) (or [4110](#)), [3151](#), [3160](#), [3210](#), [3230](#) (or [4210](#)), [3330](#) (or [4310](#)), [3370](#), [3410](#).

A minor in Mathematics is described in the [Minors](#) section.

2012-110 Change PHYS major description

Approved Catalog Copy:

Physics

Physics, a fundamental and quantitative science, involves the study of matter and energy, and interactions between them. The subject is generally divided into mechanics, electricity and magnetism, statistical and thermal physics, and quantum physics. These form the foundation for present-day research areas, which include astrophysics, atomic, molecular and optical physics, condensed matter physics, nuclear physics, and the physics of particles and fields. In addition to a knowledge of physics, students gain a rigorous training in logical thinking and quantitative problem solving. An education in physics can also provide an entry into many other fields such as biophysics, geophysics, medical physics, and engineering, as well as into less technical fields such as secondary education, technical sales, and science writing. Many students have also found that physics is an excellent preparation for the study of medicine, dentistry, or law.

The preferred introductory sequence for a major in physics, common to all physics degree programs, consists of [PHYS 1600Q](#), [1601Q](#), and [1602Q](#). There are two options for the Bachelor of Science degree in physics: (1) the general option for students seeking to further their physics studies in graduate school and/or a career in research, and (2) the applied option, for students seeking graduate study in another field, medicine or dentistry, or a technical career in industry. The Bachelor of Arts degree in physics is ideal for pre-medical, pre-dental, or pre-veterinary students, students seeking double majors, or students seeking a middle or high school teaching career. There is a Bachelor of Science in Engineering Physics offered jointly with the School of Engineering with possible emphases on Electrical Engineering, Mechanical Engineering, or Materials Science and Engineering. **There is also a Bachelor of Science in Mathematics-Physics that is offered jointly with the Department of Mathematics.**

Students satisfy the information literacy competency exit requirements in the Physics Major, by passing [PHYS 2300](#) and [2501W](#), both required courses for the Physics major. The University's computer technology and writing competency requirements are achieved by passing [PHYS 2501W](#). These requirements apply to both the Physics B.S. and the B.A. degrees. Courses that further enhance competencies are [PHYS 2200](#) for computer technology, and [PHYS 4096W](#) for writing skills.

Bachelor of Science, General Option:

A total of 48 credits from 2000-level or above courses in physics, other sciences, mathematics, or engineering are required. Among these, 36 credits must be physics courses. The 36 credits of physics must include [PHYS 2300](#), [2501W](#)<http://www.catalog.uconn.edu/phys.htm> - [2300](#), [3101](#), [3201](#), [3202](#), [3300](#), and [3401](#), and at least three credits of an advanced laboratory ([PHYS 2502](#), [3150](#), or [4900](#)). It is strongly recommended that students going on to graduate school in physics take [PHYS 3402](#). All students are strongly encouraged to participate in an undergraduate research project. An experimental research project ([PHYS 4099](#)) may count towards the advanced laboratory requirement. No more than two credits from [PHYS 4094](#), and no more than six credits from [PHYS 4099](#) may be counted towards this degree option. The general option for the Bachelor of Science degree requires a minimum of 12 credits from 2000-level or above related courses in mathematics, other sciences, or engineering.

Bachelor of Science, Applied Option:

A total of 48 credits from 2000-level or above courses in physics, other sciences, mathematics, or engineering are required. Among these, 30 credits must be physics courses. The 30 credits must include [PHYS 2300](#), [2501W](#), [3101](#), [3201](#), and [3300](#), plus a minimum of nine credits from the following eight courses: [PHYS 2502](#), [3150](#), [4140](#), [4150](#), [4210](#), [4350](#), [4900](#), and 5621, with at least three of the nine credits being from an advanced laboratory ([PHYS 2502](#), [3150](#), or [4900](#)). These eight courses involve the application of knowledge from multiple basic subjects, i.e., from mechanics, electricity and magnetism, statistical and thermal physics, and quantum mechanics. ([PHYS 3101](#)<http://www.catalog.uconn.edu/phys.htm> - [2300](#) and [3201](#) together may replace [PHYS 3103](#).) All students are strongly encouraged to participate in an undergraduate research project. An experimental research project ([PHYS 4099](#)) may count towards the advanced laboratory requirement. The applied option for the Bachelor of Science degree requires a minimum of 12 credits from 2000-level or above related courses in mathematics, other sciences, or engineering. To complete the 48 total required credits for the applied option, the remaining six credits may come from 2000-level or above courses in physics, other sciences, mathematics, or engineering. No more than two credits from [PHYS 4094](#), and no more than six credits from [PHYS 4099](#), may be counted towards this degree option.

Bachelor of Arts:

A total of 36 credits from 2000-level or above courses in physics, other sciences, mathematics, or engineering are required. Among these, 24 credits must be physics courses which must include [PHYS 2300](#),

<http://www.catalog.uconn.edu/phys.htm> - 2300, 3103 or both 3101 and 3201, 3104 or 3300 along with 12 credits of elective physics courses. No more than two credits from PHYS 4094, and no more than six credits from [PHYS 4099](#), may be counted towards this degree. The Bachelor of Arts degree requires a minimum of 12 credits from 2000-level or above related courses in mathematics, other sciences, or engineering.

*[PHYS 3103](#) and [3104](#) will be offered only in the Summer starting in 2010.

Engineering Physics

Bachelor of Science in Engineering Physics:

Offered jointly by the School of Engineering and the Department of Physics in the College of Liberal Arts and Sciences, Engineering Physics majors can concentrate in either (1) Electrical, (2) Materials Science and Engineering or (3) Mechanical. To complete the degree, students must satisfy the course requirements of the College or School granting the degree.

The major requires 128 credits of course work.

Engineering Physics majors are required to complete the following:

[CHEM 1128Q](#) or [1148Q](#)

[PHYS 2300](#), [2501W](#), [3101](#), [3201](#), [3202](#), and [3401](#)

[MATH 2110Q](#), [2410Q](#), and [3410](#)

Electrical Engineering - [ECE 2001W](#), [3101](#), [3111](#), [3201](#), [4111](#), [4211](#), [4901](#), and [4902](#); [CSE 2300W](#); [MATH 2210Q](#); [PHYS 3300](#); [STAT 3345Q](#), Elective courses (4 credits).

Mechanical Engineering - [ME 2233](#), [2234](#), [3220](#), [3227](#), [3242](#), [3250](#), [3253](#), [4972](#) and [4973W](#); [CE 2110](#), [3110](#); [STAT 3345Q](#); ME Elective Courses (6 credits); PHYS Elective courses (6 credits).

Materials Science and Engineering - [MSE 2001](#), [2002](#), [2053](#), [3001](#), [3002](#), [3003](#), [3004](#), [3055](#) and [3056](#), [4003W](#), [4901](#) and [4902W](#); [CHEG 3156](#); [PHYS 4150](#) and [4210](#); MSE Elective Courses (6 credits); Physics Elective Courses (3 credits).

Students in the Bachelor of Science in Engineering Physics are required to pass [ENGR 1000](#) in addition to [PHYS 2300](#) in order to satisfy the information literacy competency requirement; they are required to pass [CSE 1100](#) or the equivalent, in addition to [PHYS 2501W](#), in order to satisfy the computer technology competency requirement; and [PHYS 2501W](#) will suffice to satisfy the writing in the major requirement.

The options for the electives courses are specified in the *Engineering Physics Guide to Course Selection*.

Mathematics-Physics

Bachelor of Science in Mathematics-Physics

The B.S. degree in Mathematics-Physics may be completed by following either track A, which has a physics emphasis, or track B, which has a mathematics emphasis. The students in track A should choose an advisor from the Physics Department, and those in Track B should choose an advisor from the Mathematics Department. The number of credits for 2000 level courses or above in the track A is 30 in Physics and 19 in Mathematics, and for track B these numbers are 21 credits in Physics and 28 in Mathematics. In either track the writing in the major and information literacy competencies are met using [PHYS 2501W](#).

In addition to the general education requirements of the University and College, the required courses for the Mathematics-Physics Major Track A (Physics Emphasis) are:

(1) either: i) [MATH 2110Q](#) (or [2130Q](#) or [2143Q](#)) and [2210Q](#) and [2410Q](#) (or [2420Q](#)) or: ii) [MATH 2141Q](#) and [2142Q](#) and [2143Q](#) and [2144Q](#).

(2) All of: [MATH 3146](#), [3410](#), [3510](#) and [PHYS 2300](#), [2501W](#), [3101](#), [3201](#), [3202](#), [3300](#), [3401](#).

(3) Any nine credits from: [PHYS 2200](#), [2400](#), [2502](#), [3102](#), [3103](#), [3104](#), [3150](#), [3989](#), [4093](#), [4094](#), [4095](#), [4096](#), [4098](#), [4099](#), [3402](#), [4100](#), [4130](#), [4140](#), [4150](#), [4210](#), [4300](#), [4350](#), [4900](#).

The required courses for the Mathematics-Physics Major Track B (Mathematics Emphasis) are:

(1) either: i) [MATH 2110Q](#) (or [2130Q](#) or [2143Q](#)) and [2210Q](#) and [2410Q](#) (or [2420Q](#)) and [2710](#) (or [2141Q](#) and [2142Q](#)) and [3146](#), or: ii) [MATH 2141Q](#) and [2142Q](#) and [2143Q](#) and [2144Q](#) and [3146](#)

(2) All of: [PHYS 2300](#), [2501W](#), [3101](#), [3201](#), [3202](#), [3401](#).

(3) Any 3 credits from: [Phys 2200](#), [2400](#), [2502](#), [3102](#), [3103](#), [3104](#), [3150](#), [3300](#), [3989](#), [4093](#), [4094](#), [4095](#), [4096](#), [4098](#), [4099](#), [3402](#), [4100](#), [4130](#), [4140](#), [4150](#), [4210](#), [4300](#), [4350](#), [4900](#).

(4) Any 4 courses from [MATH 3150](#) (or [4110](#)), [3151](#), [3160](#), [3210](#), [3230](#) (or [4210](#)), [3330](#) (or [4310](#)), [3370](#), [3410](#).

A minor in Physics is described in the [Minors](#) section.

2012-111 Drop POLS: 5415, 5435, 5440, 5445, 5450

Approved by the committee

Old Catalog Copy:

POLS 5415. Administrative Ethics

(POLS 320) 3 credits. Seminar. Examination of models and standards of ethics in public administration, decision-making techniques and tools, and analyses of selected, contemporary dilemmas confronting public administration and public policy.

POLS 5435. Proseminar in Public Policy

(POLS 346) 3 credits. Seminar.

Major works in U.S. public policy, with comparative illustrations of general principles.

POLS 5440. Proseminar in Public Administration

(POLS 360) 3 credits. Seminar.

Theory and structure of administration and the public service.

POLS 5445. Public Budgeting

(POLS 373) 3 credits. Seminar.

An examination of the development and structure of the public financial sectors; the principles and roles of operating and capital budgets in public organizations; and introduction to the relationships between funding mechanisms and public policy.

POLS 5450. Politics of Organization and Bureaucracy

(POLS 375) 3 credits. Seminar.

2012-112 Change SLHS 4254 prerequisite and credits

Approved Catalog Copy:

SLHS 4254. Introduction to Language Disorders in Children

(Formerly offered as CDIS 4253) Three credits. Prerequisite: SLHS 2204; open to juniors or higher

Development, measurement, and function of language in children. Emphasis on child language disorders and their causes. Introduction to assessment and management strategies in settings including public schools and private clinics.

2012-113 Change HRTS/WGSS 2263 description

Approved Catalog Copy:

WGSS 2263. Women and Violence

(Formerly offered as WS 3263/263.) (Also offered as HRTS 2263.) Three credits. Prerequisite: Open to sophomores or higher. Recommended preparation: Any 1000-level WGSS course.

Discussion of violence against women in the US and globally, including close examination of various forms of interpersonal and structural violence as well as the social, political and personal meanings of violence.

HRTS 2263. Women and Violence

(263) (Formerly offered as HRTS 3263.) (Also offered as [WGSS 2263](#).) Three credits.
Prerequisite: Open to sophomores or higher. Recommended preparation: Any 1000-level WGSS course.

Discussion of violence against women in the US and globally, including close examination of various forms of interpersonal and structural violence as well as the social, political and personal meanings of violence.

2012-114 Drop HRTS 3245 Approved

Catalog Copy:

3245. Human Rights Internship and Portfolio

(245) (Formerly offered as INTD 245.) Three credits. Prerequisite: Consent of Director of Human Rights Minor.

Internship with a human rights-related agency, organization, or group, and preparation of a portfolio synthesizing the internship experiences with Human Rights Minor course work.

Old Business

Individualized Major requirements (IMJR)

There was general support for the new IMJR honors thesis requirements described in the agenda. Appreciation was expressed for IMJR's pattern of communication with the committee over the past year.

New Business

General Education Requirements

The relationship between the GEOC content area (CA) requirements and the CLAS "areas A-E" requirements was discussed at length. The chair was requested to look at CLAS C&C committee's forms to determine those that should include an option for faculty to identify a College area requirement. Katrina Higgins volunteered to identify which A-E courses have been formally submitted for approval into area requirements at CLAS C&C. No decision was taken on whether or not a subcommittee is necessary at this juncture to address the relationship between GEOC and college areas requirements.

Study Abroad

Ongoing accreditation questions were discussed for referral to the CLAS C&C sub-committee on Study Abroad. This arose from a "credit conversion chart" that was generated by the Study Abroad office. This chart will be circulated to the sub-committee.

Meeting adjourned at 5:37 until 3:30 PM January 15th or February 5th 2013, depending on the agenda, ROWE 130

Respectfully submitted by Matthew Singer [POLS]