

College of Liberal Arts and Sciences, Committee on Curricula and Courses, Agenda December 11th, 2012

Selection of the Secretary *pro tem*
Minutes of the meeting of November 13th

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New Proposals submitted for consideration

2012-105 Add course HIST 1600

1. Date: **November 9, 2012**
2. Department requesting this course: **HIST**
3. Semester and year in which course will be first offered: **Fall 2013**

Final catalog Listing (see Note A):

1600. Introduction to Latin America and the Caribbean

Either semester. Three credits.

A multidisciplinary course exploring 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 and CA 4-INT.

Items included in catalog Listing:

Obligatory Items

1. Standard abbreviation for Department or Program (see Note O): **HIST**
2. Course Number (see Note B): **1600**
Have you checked with the Registrar that this number is available for use? Yes ___ No
3. Course Title: **Introduction to Latin America and the Caribbean**
4. Semester offered (see Note C): **both**
5. Number of Credits (see Note D): **three**
6. Course description (second paragraph of catalog entry -- see Note K):

Multidisciplinary course exploring the historical development of Latin America and the Caribbean; Examines colonization and nation formation, geography and the environment, immigration and migration, race, ethnicity, and gender in society, politics, economy, and culture.

Optional Items

7. Number of Class Periods, if not standard (see Note E): **NA**
8. Prerequisites, if applicable (see Note F): **NA**
9. Recommended Preparation, if applicable (see Note G): **NA**
10. Consent of Instructor, if applicable (see Note T) **NA**
11. Exclusions, if applicable (see Note H): **NA**
12. Repetition for credit, if applicable (see Note I): **May be repeated for credit**
13. Instructor(s) names if they will appear in catalog copy (see Note J): **Staff**
14. Open to Sophomores (see Note U): **yes**
15. Skill Codes "W", "Q", or "C" (see Note T): **NA**
16. S/U grading (see Note W): **NA**

Justification

1. Reasons for adding this course: (see Note L) **Unlike its introductory offerings in U.S. and European history, the history department currently does not have a 1000-level introductory course in Latin American and Caribbean history. Students require a basic survey course to prepare them for success in upper level Latin American and Caribbean history courses offered in the department.**
2. Academic Merit (see Note L): **This course provides an introduction to the history and culture of the peoples of Latin America and the Caribbean from an interdisciplinary perspective. Students will gain not only a historical understanding of the diverse nation-states that entered the global economy at the beginning of the nineteenth century, but moreover, a basis for making sound observations and judgments about the contemporary political, economic, social, and cultural realities affecting Latin America and the Caribbean today. A multidisciplinary course exploring 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.**
3. Overlapping Courses (see Note M): **NA**
4. Number of Students Expected: **70+**
5. Number and Size of Section: **1, 70+**
6. Effects on Other Departments (see Note N): **LAMS** (consulted)
7. Effects on Regional Campuses: **Course could be offered at regional campuses**
8. Staffing (see Note P): **Jason Chang (HIST), Anne Eller (HIST), Mark Healey (HIST), Melina Pappademos (HIST/AFAM), Blanca Silvestrini (HIST), Luis Van Isschot (HIST, HRI), Anne Gebelein (LAMS), Mark Overmyer-Velázquez (LAMS, HIST)**
9. Dates approved by (see Note Q):
Department Curriculum Committee: 11/27/12
Department Faculty: 12/1/12
10. Name, Phone Number, and e-mail address of principal contact person: **Micki McElya, 6-2085, micki.mcelya@uconn.edu**

2012-106 Change title-LAMS 1190W

1. Date: November 9, 2012
2. Department: **LAMS**
3. Nature of Proposed Change:
Title change and change of one of the content criteria areas.

4. Current Catalog Copy:

1190W. Perspectives on Latin America (190W) Prerequisite: ENGL 1010 or 1011 or 2011 or 3800. CA 2. CA 4-INT.

5. Proposed Catalog Copy:

1190W. Introduction to Latin America and the Caribbean

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

A multidisciplinary course exploring 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.

6. Effective Date : Fall 2013

Justification

1. Reasons for changing this course:
We wish to change the course title to match the title change of LAMS 1190. Additionally we seek to change one of the Content Criteria from CA 2 to CA1. LAMS 1190W introduces students to and engages them in all of the five elements of the CA 1, Arts and Humanities Criteria. Although the CA 2 category was relevant in the past, the course is no longer taught with a CA 2 Criteria focus.
2. Effect on Department's Curriculum: **None**
3. Other Departments Consulted (see Note N): **HIST**
4. Effects on Other Departments: **HIST**
5. Effects on Regional Campuses: Course could be offered at regional campuses
6. Staffing: Anne Gebelein (LAMS), Mark Overmyer-Velázquez (LAMS, HIST), Jason Chang (HIST), Anne Eller (HIST), Mark Healey (HIST), Melina Pappademos (HIST/AFAM), Blanca Silvestrini (HIST)
7. Dates approved by (see Note Q):
Department Curriculum Committee: November 7, 2012
Department Faculty: November 7, 2012
8. Name, Phone Number, and e-mail address of principal contact person:
Mark Overmyer-Velázquez, 6-2814, mark.velazquez@uconn.edu

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

1. Date: **November 9, 2012**
2. Department initiating this proposal: **LAMS**

3. Current Catalog Copy/Copies:

**1190. Perspectives on Latin America
(190) Three credits.**

A multidisciplinary course including geography, indigenous peoples, colonization and nation formation; society, politics, economy, and culture of contemporary Latin America and its place in today's world. CA 2. CA 4-INT.

4. Proposed Catalog Copy/Copies:

1190. Introduction to Latin America and the Caribbean

Three credits.

A multidisciplinary course exploring 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.

5. Effective Date (semester, year -- see Note R): **Fall 2013**

Justification

1. Reasons for adding this course if it is a new course: **Not a new course**
2. Reasons for cross listing this course: **The history department is currently developing HIST 1600 Introduction to Latin America and the Caribbean. The existing LAMS 1190 course serves the same purpose of introducing students to general themes and concepts in the study of Latin American and the Caribbean over time.**
3. Does the title or course description clearly indicate that the course is appropriate to list under all headings?

X Yes No

We wish to change the course title to indicate the cross listed nature of the content. Additionally we seek to change one of the Content Criteria from CA 2 to CA1. HIST 1600/LAMS 1190 introduces students to and engages them in all of the five elements of the CA 1, Arts and Humanities Criteria. Although the CA 2 category was relevant in the past, the course is no longer taught with a CA 2 Criteria focus. We will retain the CA 4-INT Criteria.

Proposed title:

HIST 1600/LAMS 1190 Introduction to Latin America and the Caribbean

4. Other Departments Consulted (see Note N): **HIST**
5. Effects on Regional Campuses: **Course could be offered at regional campuses**
6. Staffing: **Anne Gebelein (LAMS), Mark Overmyer-Velázquez (LAMS, HIST), Jason Chang (HIST), Anne Eller (HIST), Mark Healey (HIST), Melina Pappademos (HIST/AFAM), Blanca Silvestrini (HIST)**

Approvals:

All changes in course catalog copy except editorial changes must go through each department's standard process for reviewing new courses.

1. List the name of each department or program which will be involved in the cross-listing. **LAMS, HIST**

2. For each department or program, list the dates of approval by the appropriate departmental or program review process (see Note Q):

LAMS

Department or Program Curriculum Committee: **November 7, 2012**

Department or Program Faculty: **November 7, 2012**

Department or Program Head: **November 7, 2012**

HIST

Department or Program Curriculum Committee: **11/27/12**

Department or Program Faculty: **12/1/12**

Department or Program Head: **12/1/12**

3. Name, Phone Number, and e-mail address of principal contact person: **Mark Overmyer-Velázquez, 6-2814, mark.velazquez@uconn.edu**

2012-108 Change HRTS minor

1. Date: Nov. 15, 2012
2. Department requesting this change: HRTS
3. Title of Minor: Human Rights
4. Nature of Change: Substitution of internship course HRTS 4291 for HRTS 3245, **AND** dropping HRTS 3245 from the Minor

5. Existing catalog Description of the Minor:**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/HRIS 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](#); [SOC 3503](#)

Group C. Internship: HRTS 3245

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

6. Proposed catalog Description of the Minor:**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/HRIS 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](#); [SOC 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.

7. Effective Date (semester, year -- see Note R): Fall, 2013

(Note that changes will be effective immediately unless a specific date is requested.)

Justification

1. Why is a change required?

The new HRTS Major introduced a new internship course and requirement, HRTS 4291, Service Learning/Internship. This course is more rigorous in terms of classroom work as part of the internship, and represents an improvement over the old course used for the Minor (3245).

We prefer to have all HRTS Minors and Majors enroll together under this number both for the reason stated above, and for an unexpected enrollment complication. Students currently HRTS Minors who decide to become HRTS Majors, but have already completed the internship requirement for the Minor under the old number (3245), have difficulty counting that as the internship for the Major, but if required to take the new course would then have 6 credits of internship credit—not necessary for the Major.

2. What is the impact on students? NONE

3. What is the impact on regional campuses? NONE

4. Attach a revised "Minor Plan of Study" form to this proposal (see Note P). This form will be used similarly to the Major Plan of Study to allow students to check off relevant coursework. It should include the following information:

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

5. Dates approved by (see Note Q):

Department Curriculum Committee: Nov. 14, 2012

Department Faculty: Nov. 14, 2012

6. Name, Phone Number, and e-mail address of principal contact person:

Richard P. Hiskes
6-2536; 860 428-5331
Richard.hiskes@uconn.edu

2012-109 Change MATH major description

1. Date: Dec. 9, 2012
2. Department requesting this change: Mathematics and Physics
3. Title of Major: Mathematics Major
4. Nature of Change: to add the Mathematics-Physics major, Bachelor of Science, with two tracks (Mathematics track and Physics track).

5. Old catalog Description of the Major :

Mathematics

The Mathematics Department offers programs of study in Mathematics, Applied Mathematical Sciences, Actuarial Science (in cooperation with the [School of Business](#)), and Mathematical Statistics (in cooperation with the [Department of Statistics](#)).

[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. 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.

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

6. Proposed catalog Description of the Major :

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 the [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. 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: 2) 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.

7. Effective Date (Fall, 2013 -- see [Note R](#)):

(Note that changes will be effective immediately unless a specific date is requested.)

Justification

1. Why is a change required ? to add new Math-Physics major

2. What is the impact on students? none

3. What is the impact on regional campuses? none

5. Dates approved (text of the Math-Phys major) by:

Math Department Curriculum Committee: December 4, 2012

Math Department Faculty: Math Department does not require approval of the full faculty, approval by Math C&C suffices

Phys Department Curriculum Committee: Nov. 30, 2012

Phys Department Faculty: pending (Dec. 10, 2012)

(NOTE: Dates when the Math-Phys major was approved:

Mathematics Department Curriculum Committee: April 29, 2008

Mathematics Department Faculty: May 8, 2008

Physics Department Curriculum Committee: Jan 26, 2006

Physics Department Faculty: May 7, 2009

CLAS C&C Committee: March 16, 2010)

6. contact person: Boris Sinkovic, 860-486-6344, sinkovic@phys.uconn.edu

Alvaro Lozano-Robledo, 860 486 3850, alvaro.lozano-robledo@uconn.edu

2012-110 Change PHYS major description

1. Date: Dec. 9, 2012
2. Department requesting this change: Math and Physics
3. Title of Major: Physics Major
4. Nature of Change: **to add the Mathematics-Physics major, Bachelor of Science, with two tracks (Mathematics track and Physics track).**

5. Old catalog Description of the Major :

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 also 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.

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)<http://www.catalog.uconn.edu/phys.htm> - 2300 and [3201](http://www.catalog.uconn.edu/phys.htm) together may replace [PHYS 3103](http://www.catalog.uconn.edu/phys.htm).) All students are strongly encouraged to participate in an undergraduate research project. An experimental research project ([PHYS 4099](http://www.catalog.uconn.edu/phys.htm)) 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](http://www.catalog.uconn.edu/phys.htm), and no more than six credits from [PHYS 4099](http://www.catalog.uconn.edu/phys.htm), 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), [2501W](http://www.catalog.uconn.edu/phys.htm)<http://www.catalog.uconn.edu/phys.htm> - 2300, [3103](http://www.catalog.uconn.edu/phys.htm) or both [3101](http://www.catalog.uconn.edu/phys.htm) and [3201](http://www.catalog.uconn.edu/phys.htm), [3104](http://www.catalog.uconn.edu/phys.htm) or [3300](http://www.catalog.uconn.edu/phys.htm) along with 12 credits of elective physics courses. No more than two credits from [PHYS 4094](http://www.catalog.uconn.edu/phys.htm), and no more than six credits from [PHYS 4099](http://www.catalog.uconn.edu/phys.htm), 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](http://www.catalog.uconn.edu/phys.htm) and [3104](http://www.catalog.uconn.edu/phys.htm) 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](http://www.catalog.uconn.edu/chem.htm) or [1148Q](http://www.catalog.uconn.edu/chem.htm)

[PHYS 2300](http://www.catalog.uconn.edu/phys.htm), [2501W](http://www.catalog.uconn.edu/phys.htm), [3101](http://www.catalog.uconn.edu/phys.htm), [3201](http://www.catalog.uconn.edu/phys.htm), [3202](http://www.catalog.uconn.edu/phys.htm), and [3401](http://www.catalog.uconn.edu/phys.htm)

[MATH 2110Q](http://www.catalog.uconn.edu/math.htm), [2410Q](http://www.catalog.uconn.edu/math.htm), and [3410](http://www.catalog.uconn.edu/math.htm)

Electrical Engineering - [ECE 2001W](http://www.catalog.uconn.edu/ece.htm), [3101](http://www.catalog.uconn.edu/ece.htm), [3111](http://www.catalog.uconn.edu/ece.htm), [3201](http://www.catalog.uconn.edu/ece.htm), [4111](http://www.catalog.uconn.edu/ece.htm), [4211](http://www.catalog.uconn.edu/ece.htm), [4901](http://www.catalog.uconn.edu/ece.htm), and [4902](http://www.catalog.uconn.edu/ece.htm); [CSE 2300W](http://www.catalog.uconn.edu/cse.htm); [MATH 2210Q](http://www.catalog.uconn.edu/math.htm); [PHYS 3300](http://www.catalog.uconn.edu/phys.htm); [STAT 3345Q](http://www.catalog.uconn.edu/stat.htm), Elective courses (4 credits).

Mechanical Engineering - [ME 2233](http://www.catalog.uconn.edu/me.htm), [2234](http://www.catalog.uconn.edu/me.htm), [3220](http://www.catalog.uconn.edu/me.htm), [3227](http://www.catalog.uconn.edu/me.htm), [3242](http://www.catalog.uconn.edu/me.htm), [3250](http://www.catalog.uconn.edu/me.htm), [3253](http://www.catalog.uconn.edu/me.htm), [4972](http://www.catalog.uconn.edu/me.htm) and [4973W](http://www.catalog.uconn.edu/me.htm); [CE 2110](http://www.catalog.uconn.edu/ce.htm), [3110](http://www.catalog.uconn.edu/ce.htm); [STAT 3345Q](http://www.catalog.uconn.edu/stat.htm); ME Elective Courses (6 credits); PHYS Elective courses (6 credits).

Materials Science and Engineering - [MSE 2001](http://www.catalog.uconn.edu/mse.htm), [2002](http://www.catalog.uconn.edu/mse.htm), [2053](http://www.catalog.uconn.edu/mse.htm), [3001](http://www.catalog.uconn.edu/mse.htm), [3002](http://www.catalog.uconn.edu/mse.htm), [3003](http://www.catalog.uconn.edu/mse.htm), [3004](http://www.catalog.uconn.edu/mse.htm), [3055](http://www.catalog.uconn.edu/mse.htm) and [3056](http://www.catalog.uconn.edu/mse.htm), [4003W](http://www.catalog.uconn.edu/mse.htm), [4901](http://www.catalog.uconn.edu/mse.htm) and [4902W](http://www.catalog.uconn.edu/mse.htm); [CHEG 3156](http://www.catalog.uconn.edu/che.htm); [PHYS 4150](http://www.catalog.uconn.edu/phys.htm) and [4210](http://www.catalog.uconn.edu/phys.htm); 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](http://www.catalog.uconn.edu/engr.htm) in addition to [PHYS 2300](http://www.catalog.uconn.edu/phys.htm) in order to satisfy the information literacy competency requirement; they are required to pass [CSE 1100](http://www.catalog.uconn.edu/cse.htm) or the equivalent, in addition to [PHYS 2501W](http://www.catalog.uconn.edu/phys.htm), in order to satisfy the computer technology competency requirement; and [PHYS 2501W](http://www.catalog.uconn.edu/phys.htm) 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*.

A minor in Physics is described in the [Minors](http://www.catalog.uconn.edu/minors.htm) section.

6. Proposed catalog Description of the Major :

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](#), [2501W](#)<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: 2) [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.

7. Effective Date (Fall, 2013 -- see [Note R](#)):

(Note that changes will be effective immediately unless a specific date is requested.)

Justification

1. Why is a change required ? to add new Math-Physics major
2. What is the impact on students? none
3. What is the impact on regional campuses? none
5. Dates approved (text of the Math-Phys major) by:
 - Math Department Curriculum Committee: Dec. 5, 2012
 - Math Department Faculty: Math Department does not require approval of the full faculty, approval by Math C&C suffices
 - Phys Department Curriculum Committee: Nov. 30, 2012
 - Phys Department Faculty: pending (Dec. 10, 2012)

(NOTE: Dates when the Math-Phys major was approved:

- Mathematics Department Curriculum Committee: April 29, 2008
 - Mathematics Department Faculty: May 8, 2008
 - Physics Department Curriculum Committee: Jan 26, 2006
 - Physics Department Faculty: May 7, 2009
 - CLAS C&C Committee: March 16, 2010)
6. Name, Phone Number, and e-mail address of principal contact person:
 - Boris Sinkovic, 860-486-6344, sinkovic@phys.uconn.edu
 - Alvaro Lozano-Robledo, 860 486 3850, alvaro.lozano-robledo@uconn.edu

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

1. Date: December 6, 2012
2. Department: Political Science
3. 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.

4. Effective Date (semester, year -- see Note R):

(Note that changes will be effective immediately unless a specific date is requested.)

Justification

1. Reasons for dropping this course: These courses are ones that we no longer teach and are not staffed to teach as our department has evolved in recent years. So the department wishes to make a more accurate representation of our grad offerings in the catalog.

2. Other Departments Consulted: None

3. Effects on Other Departments: None-we are already not teaching them and so other departments are not using them to service their students

4. Effects on Regional Campuses: None

5. Dates approved by (see Note Q):

Department Curriculum Committee: 12-5-12

Department Faculty: 12-5-12

6. Name, Phone Number, and e-mail address of principal contact person:

Matthew Singer

486-2615

Matthew.m.singer@uconn.edu

2012-112 Change SLHS 4254 prerequisite and credits

1. Date: November 14, 2012
2. Department: Speech, Language, and Hearing Sciences
3. Nature of Proposed Change: change pre-requisite listed for the course and reduce number of credits from 4 to 3 credits.

4. Current Catalog Copy:

SLHS 4254. Introduction to Language Disorders in Children
(Formerly offered as COMS 253) First Semester. Four credits. CDIS 3202; 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.

5. Proposed Catalog Copy:

SLHS 4254. Introduction to Language Disorders in Children
(Formerly offered as CDIS 4253) First Semester. three credits. 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.

6. Effective Date (semester, year -- see Note R): immediately

Justification

1. Reasons for changing this course: An error was made for the pre-requisite of the course in the form submitted to the Oct. 25, 2011, CC&C meeting. This corrects the pre-requisite listed. The number of credits listed was also in error. It should be 3 for the course and not 4. The course meets 150 minutes (3 times for 50 minutes) per week, which is consistent with a 3 credit course.
2. Effect on Department's Curriculum: none
3. Other Departments Consulted (see Note N): none
4. Effects on Other Departments: NA
5. Effects on Regional Campuses: None. Major is only offered in Storrs.
6. Staffing: Faculty
7. Dates approved by (see Note Q):
Department Curriculum Committee: 2/3/11
Department Faculty: 4/5/11
8. Name, Phone Number, and e-mail address of principal contact person:
Bernard Grela, 6-3394, Bernard.grela@uconn.edu

2012-113 Change WGSS 2263 description

1. Date: November 4, 2012
2. Department: Women's, Gender, and Sexuality Studies
3. Nature of Proposed Change: Change in course description.

4. Current Catalog Copy:**2263 / 263. Women and Violence**

(Formerly offered as WS 3263.) (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 our society, including rape, battering, incest and pornography and the social, political and personal meaning of violence.

5. Proposed Catalog Copy:

(see information in the "add a course" form if you have any questions regarding specific items.)

2263 / 263. Women and Violence

(Formerly offered as WS 3263.) (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.

6. Effective Date (semester, year -- see Note R):

(Note that changes will be effective immediately unless a specific date is requested.)

Justification

1. Reasons for changing this course: Change is needed to broaden the description to include coverage of theories related to this topic, the types of critical reflection taught in the course, and the expanded focus of the Women's, Gender and Sexuality Studies Program. This corresponds with the way that course is currently taught.
2. Effect on Department's Curriculum: None.
3. Other Departments Consulted NA
4. Effects on Other Departments: None.
5. Effects on Regional Campuses: WGSS 2263 is taught at Stamford; Ingrid Semaan was consulted on its effect on her campus and she supported the revision. Since the course is also offered as HRTS, we also sought their approval of the change and they confirmed their approval on Nov. 6, 2012.
6. Staffing: variable
7. Dates approved by (see Note Q):
 - Department Curriculum Committee: November 5, 2012
 - Department Faculty: November 5, 2012
8. Name, Phone Number, and e-mail address of principal contact person:
Barbara Gurr, Barbara.gurr@uconn.edu

2012-114 Drop HRTS 3245 Human Rights Internship and Portfolio

(Docket added for the good of order after the meeting.)

1. Date: 12/12/2012
2. Department: HRTS

3. 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.

4. Effective Date (semester, year -- see Note R): Fall, 2013

(Note that changes will be effective immediately unless a specific date is requested.)

Justification

1. Reasons for dropping this course: This course has been replaced by HRTS 4291, a change already approved for the HRTS Minor.
2. Other Departments Consulted: NONE
3. Effects on Other Departments: NONE
4. Effects on Regional Campuses: NONE
5. Dates approved by (see Note Q):
Department Curriculum Committee: 12/01/2012
Department Faculty: 12/01/2012
6. Name, Phone Number, and e-mail address of principal contact person:

Richard P. Hiskes, 6-2536
Richard.hiskes@uconn.edu

Old Business

Individualized Major requirements (IMJR)

The following requirements are being circulated within IMJR concerning the IMJR honors thesis. Representative Rob Henning brought this to the attention of this Chair.

Following consultation with the Honors Board of Associate Directors and the C&C Committees of CLAS and CANR, the Individualized Major Advisory & Admissions Committee has adopted two changes in the requirements for Honors students writing theses in their individualized majors. These changes will be implemented with students planning to complete theses in the 2013/14 academic year.

First, honors students will be expected to have a second reader for their thesis. Second, they will be expected to make a public presentation of their research. In each case, the particular way that the expectation is met will be a matter for thesis supervisor and student to agree. By instituting these changes, the Individualized Major Advisory & Admissions Committee seeks to extend existing practices that apply to other students to IMJR thesis writers. A second reader puts IMJR thesis writers in the same position as Honors students in other fields who have a thesis supervisor and an Honors advisor in their department who read their thesis. A public presentation asks IMJR thesis writers to present their work just as other IMJR students are expected to do in the Program's capstone course. A more detailed document explaining these changes and the thinking behind them is attached.

We welcome any questions you may have about these new expectations.

Kathryn Strother Ratcliff, Chair, IMJR November 12, 2012

New Business

General Education Requirements

The following comment has been received by the Chair concerning concordance between GEOC and CLAS general education requirements:

There are a number of courses that have been approved as general education courses that CLAS does not include in the list of courses we accept (. In Content Area 1, they are LAND 2210 - Common (Shared) Landscape of the USA: Rights, Responsibilities & Values, FINA 1001 – Earth Tones (Vocal Ensemble), NRE 1235 (Environmental Conservation) and in Content Area 2 – INTD 1500 - Alcohol and Drugs on Drugs: Exploring the College Culture. The Senate bylaws require that all schools and colleges must accept all approved gen. ed. courses toward the 2 CA1 and CA2 courses required of all University students. We are free to exclude the CA1 courses from the additional requirements we have for that content area, but as things stand student who take these courses don't have them listed in the CLAS portion of their degree advisement report¹.

Katrina Higgins November 7th, 2012²

Adjournment until 3:30 PM January 15th or February 5th 2013, depending on the agenda, ROWE 130

¹ CLAS Bachelor's Degree requirements (p53 12/13 catalog, areas A-E).

² The CLAS C&C Chair also attended a meeting with Senate C&C and GEOC chairs on this same topic, Nov. 29th, 2012.