

The University Senate of Michigan Technological University

Proposal 16-11

(Voting Units: Academic)

“Proposal for an Interdisciplinary Graduate Certificate: The International Profile Certificate”

Revised November 30, 2010 – Graduate School Reference: FY10-05

1. General Description

This proposal recommends the establishment of a Graduate Certificate called the International Profile. This non-departmental certificate would be available to all degree-seeking as well as non-degree-seeking students enrolled in the Graduate School at Michigan Technological University.

Title of Certificate: The International Profile Certificate

Catalog Description

The International Profile Certificate recognizes advanced study in any field, but with a substantial international perspective that demonstrates an ability to bridge cultural and language barriers and collaborate effectively.

2. Rationale

Professional work in most fields requires the ability to work with people in a wide variety of cultural and physical environments. Educational programs can include exposure and demonstrated success in working all over the world, and in dealing with all aspects of work on a global basis. The degree offerings of a university should reflect accurately the training of students in international contexts.

Michigan Tech has strong and growing international programs. Important examples of these are the eight Peace Corps Masters International Programs, D80, the ATLANTIS program, SustR and TIES in Mexico, and specific agreements and research programs with other institutions around the world. These programs involve substantial language and cultural training and have changed the focus of their home departments substantially, so that international work is developing even more rapidly than before. International Exchange programs for graduate students, such as EHaz and ExCit have triggered significant international exchanges and multi-university course developments. The development of the Michigan Tech Chapter of Engineers Without Borders, the Aqua Terra Tech Enterprise and other international Senior Design efforts and the D80 Center are grass roots developments that have affected many different graduate programs. We believe that the International Profile is a necessary and appropriate educational opportunity for postgraduate students that will offer them an attractive supplement to their graduate degrees in this era of rapid paced technological change and with a strong need for international bridging. In addition to language and cultural coursework, students will spend one or more semesters abroad doing research, internships and/or coursework.

The International Profile Certificate is designed to:

- (1) encourage students to pursue international research, internship and course opportunities ;
- (2) deepen students' understanding of world cultures and global issues;

(3) develop a world-wide perspective on science, engineering and social issues, such as global change and natural hazards;

(4) encourage a basic proficiency in another language, and

(5) enhance intercultural communication skills.

3. Related Programs

Undergraduate minors such as “Study Abroad Minors” or “International Minors” exist at many universities (see University of Minnesota, Auburn). A 12 credit PhD Minor exists in Global studies at the University of Indiana, and we expect that many such examples are now developing on many campuses. At Michigan Tech graduate minors do not exist, so a certificate seems the best current option.

4. Projected Enrollment

Based on likely faculty participants and current graduate enrollments, we estimate that approximately 20 students may be enrolled at any time. For example, there are currently 80 students enrolled in the Peace Corps Master’s International Programs, 15 in the ATLANTIS program, 3 in SustR, and other students involved individual international research.

5. Scheduling Plans

This graduate certificate program is primarily a regular (daytime) program with an international component of at least one academic term.

6. Curriculum Design

A total of 12 credits are required for the International Profile Certificate for degree seeking students and 15 credits are required for non-degree seeking students. Students must earn a grade of B or higher in each of the courses counting toward the certificate. As an interdisciplinary certificate, a maximum of 6 credits is allowed in courses at the 3000- and 4000- levels.

(A) Foreign Language Requirement. (proficiency for degree seeking students, 3 credits minimum for non-degree seeking students).

(1) For non-degree seeking students, three credits at level III or higher in a foreign language course.

(2) For degree seeking students this requirement may be satisfied by any of the following:

(a) three credits at level III or higher in a foreign language course.

(b) a score on the Michigan Tech language proficiency test which would allow the student to enroll in a level III or higher foreign language course.

(c) a score of 63 or higher on a CLEP foreign language examination.

(d) a rating of Intermediate Mid on the ACTFL test or Language Proficiency Interview, or

(e) a documented score of 3 or above on the Advanced Placement Exam

(f) other evidence of equivalent language proficiency approved by the Certificate’s committee. Appeals of the committee’s decision may be made to the Dean of the Graduate School.

(B) International and Intercultural Awareness (5 credits minimum). Students select a minimum of 5 credits from the following list of courses.

BA4710
CE5993
CE5990, 5991, 5992
EC3100
FW5770
FW5720
GE5001
HU3253
HU3261
HU3262
HU3263
HU3264
HU3502
HU3504
HU3545
HU3850
HU 4271/4281/4291
HU 4272/4282/4292
HU 4273/4283/4293
HU 4626
HU 5050
HU 5116
PSY3070
SS3100
SS3410
SS3610
SS3620
SS3940
SS4210
UN4000

Course descriptions are in Appendix 1.

(C) Required International Experience. Students must take a minimum of 6 credits at a university or research center or undertake supervised coursework or research outside of the United States over at least one complete academic term. No more than three of these credits may be research credits. Credits not taken through Michigan Tech must be coursework credits.

(D) Integrated International Studies (1 credit)

UN 5555 Integrated International Studies Seminar (1 credit)

UN 5555 will be proposed as a new course, but is not yet in the binder process.

7. New Course Description

UN5555 Integrated International Studies Seminar (1 credit, fall, spring). Prerequisite: graduate standing, instructor approval. Instructor approval will generally not be granted unless the student has completed one semester of graduate study in a foreign country. Seminar discusses the cultural differences of implementing research in a foreign country. Case studies and history of universities in other countries are included.

Teaching of the course will be coordinated by the Certificate Director. The course will initially be taught by Drs. Rose and Orr. Letters of support are shown in Appendix 2.

A draft syllabus is shown in Appendix 3.

8. Costs and Additional Resources

No new library resources will be required. No additional computing resources will be required nor will additional computing fees be required beyond those already required for each department. Letters concerning teaching costs for the seminar are shown in Appendix 2. No additional equipment is required. No additional space is required; the seminar can be taught in current university space.

9. Faculty Resumes

Proposing faculty are:

William I Rose, Geological Engineering & Sciences

John Gierke, Geological Engineering & Sciences

Alex Mayer, Civil and Environmental Engineering

Blair Orr, Forestry and Environmental Sciences

Andrew Storer, Forestry and Environmental Sciences

Resumes are attached in Appendix 4.

10. Administration and Policies

The Certificate will be housed in the Graduate School and day to day administration will be handled by the International Profile Certificate Committee. The Committee will be appointed by the Dean of the Graduate School and will consist of the Certificate Director, one member with expertise in foreign languages from the Humanities Department who is a member of the graduate faculty and one at-large member from the graduate faculty. The Certificate Director will be appointed by the Dean of the Graduate School.

Appendix 1.

Course Descriptions

BA 4710 - International Management

Study of managing work in a global context. Assesses impact of culture and the international environment (economic, social, legal, technological) on management, personnel, marketing, accounting, and finance strategies. Examines international business structures from licensing to joint ventures. Develops attitudes and skills leading to increased international effectiveness.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Restrictions: May not be enrolled in one of the following Class(es): Freshman, Sophomore, Junior

Pre-Requisite(s): BA 3700 and EC 3100(C)

CE 5990 - Civil Engineering Graduate Seminar

Detailed study and group discussions of current literature and graduate research projects related to the broad field of civil engineering. Topics will be combined to address the student's area of interest, including construction, environmental, geotechnical, structures, transportation, and water resources. External speakers discuss current related issues.

Credits: 1.0

Lec-Rec-Lab: (0-1-0)

Semesters Offered: Fall, Spring

Restrictions: Must be enrolled in one of the following Level(s): Graduate

CE 5991 - Environmental Engineering Graduate Seminar I

Presentations and discussion of current literature and research related to the broad field of environmental engineering.

Credits: 1.0

Lec-Rec-Lab: (0-1-0)

Semesters Offered: Fall

CE 5992 - Environmental Engineering Graduate Seminar II

Presentations and discussion of current literature and research related to the broad field of environmental engineering.

Credits: 1.0

Lec-Rec-Lab: (0-1-0)

Semesters Offered: Spring

CE 5993 - Field Engineering in the Developing World

Study of applying appropriate and sustainable engineering solutions and technology in the developing world. Concepts of sustainable development are covered. Topics are drawn from several areas of engineering, including water supply/treatment, wastewater treatment, materials, solid waste, construction, and watersheds.

Credits: 2.0

Lec-Rec-Lab: (0-1-2)

Semesters Offered: Spring

Restrictions: Must be enrolled in one of the following Level(s): Graduate

EC 3100 - International Economics

Introduction to international economics, including balance of payments, accounting, foreign exchange markets, international trade theory, barriers to trade, trade and development, regional economic integration, and current U.S. international economic issues.

Credits: 3.0

Lec-Rec-Lab: (3-0-0)

Semesters Offered: Fall, Spring, Summer

Pre-Requisite(s): EC 3001 or (EC 2002 and EC 2003) and UN 2002

FW 5720 - International Forestry Seminar

Seminar for students who have completed FW5730. Synthesizes field work in a theoretical framework. Covers macro aspects of development theory.

Credits: 1.0

Lec-Rec-Lab: (0-1-0)

Semesters Offered: Fall, Spring, Summer

Restrictions: Must be enrolled in one of the following Level(s): Graduate

Pre-Requisite(s): FW 5730

FW 5770 - Rural Community Development Planning and Analysis

Context, analysis, and monitoring of development processes of rural communities in tropical countries.

Credits: 2.0

Lec-Rec-Lab: (2-0-0)

Semesters Offered: Spring

Restrictions: May not be enrolled in one of the following Class(es): Freshman, Sophomore, Junior

GE 5001 - Intercultural Natural Hazards Communication in Latin America

Perception of risk and hazards in Latin American cultures. Available technology for mitigation and its practicality and perception. Working effectively with hazard agencies. How to measure mitigation effectiveness. Indigenous and European over prints in Latin American life.

Credits: 2.0

Lec-Rec-Lab: (0-2-0)

Semesters Offered: Fall

Restrictions: May not be enrolled in one of the following Class(es): Freshman, Sophomore

HU 3261 - Communicating Across Cultures

Comparative study of interpersonal communication across cultures by both foreign and American students, with emphasis on cultural patterns, attitudes, values, and nonverbal behaviors. Instructor selects cultures for study from Third World, Western, or non-Western regions.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Restrictions: May not be enrolled in one of the following Class(es): Freshman

Pre-Requisite(s): UN 1002 or UN 1003

HU 3262 - Topics in Francophone Cultures

An introduction to Francophone cultures (in English) in a comparative perspective. Includes a survey of French history and its influence on modern-day French and Francophone societies through movies, media, and recent technologies, and a critical examination of cross-cultural differences between French and American cultures.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Restrictions: May not be enrolled in one of the following Class(es): Freshman

Pre-Requisite(s): UN 1002 or UN 1003

HU 3263 - Topics in German-Speaking Cultures

An introduction to German-speaking culture (in English) in a comparative perspective. Includes a survey of Central-European history and its influence on modern-day German-speaking societies through movies, media, and recent technologies, and a critical examination of cross-cultural differences between German and North-American cultures.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Restrictions: May not be enrolled in one of the following Class(es): Freshman

Pre-Requisite(s): UN 1002 or UN 1003

HU 3264 - Topics in Spanish-Speaking Cultures

An introduction to Spanish-speaking culture (in English) in a comparative historical perspective. Includes a survey and a critical cross-cultural examination of Latin-American culture and Spanish-speaking societies (European, Caribbean, and North, Central and South American) through literature, music, film, art and other media. Spanish-speaking cultures and North American society.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: Spring

Restrictions: May not be enrolled in one of the following Class(es): Freshman

Pre-Requisite(s): UN 1002 or UN 1003

HU 3502 - World Mythologies

Survey of the major mythological systems of the world with particular attention to those areas of commonality among various civilizations. Films may provide contextual background.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: Spring - Offered alternate years beginning with the 2001-2002 academic year

Pre-Requisite(s): UN 1002 or UN 1003

HU 3504 - Studies in the Novel

Examination of the novel in world literature with special attention to the historical, cultural, and personal contexts within which the author is writing. Film versions may be examined.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Pre-Requisite(s): UN 1002 or UN 1003

HU 3545 - Literature Across Borders

Study of literary genres, themes, and movements, with emphasis on comparing and contrasting perspectives reflected in literatures from Western and non-Western cultures. Topics may focus on historical, social, aesthetic, and cultural factors as they influence these literatures. Films may be used.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: Fall - Offered alternate years beginning with the 2004-2005 academic year

HU 3850 - Cultural Studies

Examines the way that culture communicates values, feelings, beliefs; structures differential relations of power and possibility; creates difference and hierarchy. Considers the struggles over meaning that open up possibilities for diversity and change.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: Spring

Pre-Requisite(s): UN 1002 or UN 1003

HU 4271 - Modern Language Seminar I-French

Language and power. Critical study of the representation of politics, economics, and social institutions in literature, film, and authentic documents from French, German, and Hispanic language communities. Students read texts in French and English translations. Course offered third year beginning 2009-2010.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Pre-Requisite(s): HU 3274 or HU 3275

HU 4272 - Modern Language Seminar II-French

Individual and society. Critical study of the relationship between the individual and social institutions in literature, film, and authentic documents from French, German, and Hispanic language communities. Students read texts in French and in English translation. Course offered third year beginning 2010-2011.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: Fall, Spring - Offered alternate years beginning with the 2001-2002 academic year

Pre-Requisite(s): HU 3274 or HU 3275

HU 4273 - Modern Language Seminar III-French

Technology in literature and film. Critical study of the representation of modern technology in literature, film, and authentic documents from French, German and Hispanic language communities. Students read texts in French and in English translation. Course offered every third year beginning 2008-2009.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Pre-Requisite(s): HU 3274 or HU 3275

HU 4281 - Modern Language Seminar I-German

Language and power. Critical study of the representation of politics, economies, and social institutions in literature, film, and authentic documents from French, German, and Hispanic language communities. Students read texts in German and in English translation. Course offered every third year beginning 2008-2009.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: Fall, Spring

Pre-Requisite(s): HU 3284 or HU 3285

HU 4282 - Modern Language Seminar II-German

Individual and society. Critical study of the relationship between the individual and social institutions in literature, film, and authentic documents from French, German, and Hispanic language communities. Students read texts in German and in English translation. Course offered every third year beginning 2009-2010.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: Fall, Spring - Offered alternate years beginning with the 2001-2002 academic year

Pre-Requisite(s): HU 3284 or HU 3285

HU 4283 - Modern Language Seminar III-German

Technology in literature and film. Critical study of the relationship between modern technology and literature, film, and authentic documents from French, German, and Hispanic language communities. Students read texts in German and in English translation. Course offered every third year beginning 2010-2011.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: Fall, Spring

Pre-Requisite(s): HU 3284 or HU 3285

HU 4291 - Level IV Modern Language Seminar I-Spanish

Language and power. Critical study of the representation of politics, economies, and social institutions in literature, film, and authentic texts in French, German, and Hispanic language communities. Students read texts in Spanish and English translation.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Pre-Requisite(s): (HU 3294 or HU 3295) and UN 2002

HU 4292 - Level IV Modern Language Seminar II-Spanish

Individual and society. Critical study of the relationship between the individual and social institutions in literature, film, and authentic documents from French, German and Hispanic speaking communities. Students read texts in Spanish and in English translation.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Pre-Requisite(s): HU 3294 or HU 3295

HU 4293 - Level IV Modern Language Seminar III-Spanish

Technology in literature and film. Critical study of the relationship between modern technology and literature, film, and authentic documents from French, German, and Hispanic language communities. Students read texts in Spanish and in English translation.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Pre-Requisite(s): HU 3294 or HU 3295

HU 4626 - International Technical Communication

Focuses on international workplace communication. Introduces theories of globalization. Topics may include localization, contrastive rhetoric, technical translation, and international usability.

Credits: 3.0

Lec-Rec-Lab: (2-1-0)

Semesters Offered: Spring

Restrictions: May not be enrolled in one of the following Class(es): Freshman

HU 5050 - Theories of Interculturality

A comparative, critical examination of cross-language and cross-cultural equivalencies and differences through the study of acculturation, values, traditions, role expectations, perceptions, stereotypes, and gender issues.

Credits: 3.0; Repeatable to a Max of 9

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Restrictions: Must be enrolled in one of the following Level(s): Graduate

HU 5116 - Rhetorics of Difference/Alterity

A critical examination of discourses, theories, and representations of otherness or difference according to race, gender, sexuality, class, age, nationality, ethnic background, and other socio-cultural categories. May include discussion of issues of self-representation within and among groups, the rhetorics of exile or diaspora, colonial and postcolonial constructions of identity.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Restrictions: Must be enrolled in one of the following Level(s): Graduate

PSY 3070 - Cross-Cultural Psychology

Introduces the student to cross cultural psychology and sociocultural theory as it is applied to psychology.

Examines research on cultural specific and universal behaviors. Emphasizes the benefits and challenges of diversity in organizations and diversity skills that promote interpersonal and organizational success.

Credits: 3.0

Lec-Rec-Lab: (0-3-0)

Semesters Offered: On Demand

Pre-Requisite(s): PSY 2000 and (UN 1002 or UN 1003)

SS 3100 - Developing Societies

An overview of the developing world. Asks "What is development?" in ecological, human, and economic terms.

Explores variation among developing societies and elements of internal differentiation, including cultures, regions, classes, and genders. Emphasizes active student exploration of strategies for change, including technology, business, and political transformations.

Credits: 3.0

Lec-Rec-Lab: (3-0-0)

Semesters Offered: Spring - Offered alternate years beginning with the 2000-2001 academic year

Pre-Requisite(s): UN 1002 or UN 1003

SS 3410 - World Resources & Development

Examination of the human geography and resources of various world regions. Emphasizes factors affecting prospects for development, including population dynamics, natural resource endowment, social and cultural systems, and spatial structure of society. Case studies of individual countries supplement general concepts and theories.

Credits: 3.0

Lec-Rec-Lab: (3-0-0)

Semesters Offered: Fall, Summer - Offered alternate years beginning with the 2001-2002 academic year

Pre-Requisite(s): UN 2002

SS 3610 - International Law

Explores the principles, content, and logic of public international law, the law of nations. Students brief cases, prepare longer briefs to defend a side in a moot case, and engage in a moot court.

Credits: 3.0

Lec-Rec-Lab: (3-0-0)

Semesters Offered: Fall, Spring - Offered alternate years beginning with the 2000-2001 academic year

Pre-Requisite(s): UN 2002

SS 3620 - International Environmental Technology Policy

Explores the relationship between markets and government policies in moving national economies and corporations toward "greener" technology choices. Topics may include industrial ecology, regulation, innovation, and pollution prevention. Course employs examples from U.S., Canada, EU, and Japan. When possible, students work on a real-life project for a client.

Credits: 3.0

Lec-Rec-Lab: (3-0-0)

Semesters Offered: Fall, Spring - Offered alternate years beginning with the 2001-2002 academic year

Pre-Requisite(s): UN 2002

SS 3940 - World Affairs

The study of current issues and themes in world affairs and of significant world tension areas. Detailed examination of central issues in selected recent regional or international conflicts or high profile internal problems in selected countries.

Credits: 3.0

Lec-Rec-Lab: (3-0-0)

Semesters Offered: On Demand

Pre-Requisite(s): UN 2002

SS 4210 - Global Change in Culture and Society Since 1400

Explores the increasing interconnectedness of world cultures since 1400. The course examines the social, economic, and political changes that accompanied the rise of world capitalism from multiple theoretical perspectives. Themes include colonialism, agency, resistance, world-systems theory, and globalization.

Credits: 3.0

Lec-Rec-Lab: (3-0-0)

Semesters Offered: Spring - Offered alternate years beginning with the 2007-2008 academic year

Restrictions: May not be enrolled in one of the following Class(es): Freshman

Pre-Requisite(s): UN 1002

UN 4000 - Remote Sensing Seminar

A seminal series that covers topical issues in remote sensing, ecosystem research, and global change. Required for all students with a minor in remote sensing.

Credits: 1.0; Repeatable to a Max of 2

Lec-Rec-Lab: (0-1-0)

Semesters Offered: Fall, Spring

Restrictions: May not be enrolled in one of the following Class(es): Freshman, Sophomore

[Appendix 2.](#)

Letters of Support

[Appendix 3.](#)

Course Syllabus

[Appendix 4.](#)

Faculty Resumes

Introduced to Senate: 16 February 2011

Adopted by Senate with amendments (in red): 2 March 2011

Approved by Administration: 21 March 2011