

Certificate Programs

Certificates

Certificate Programs are structured combinations of courses with a common base of interest from one or more disciplines into an area of concentration.

Successful completion of a Certificate Program is entered on the student's transcript and records. Two types of certificates are awarded:

Academic Certificate

Awarded by an academic unit to a student at the time of awarding a bachelor's degree; or upon completion of the appropriate coursework to a student who already has a bachelor's degree.

An academic certificate shall not be awarded to a student who does not possess either a bachelor's degree or does not complete a bachelor's degree program. An academic certificate, to the greatest extent possible, is to be interdisciplinary in nature.

Professional Certificate

Awarded by an academic unit to an individual who completes the appropriate coursework in the area of concentration. The professional certificate does not need to be interdisciplinary or associated with a degree program. For details and course requirements, refer to the appropriate certificate director or academic department.

Academic Certificates in:

- Actuarial Studies
- Agroecology
- Biodiversity Conservation and Management
- Coastal and Marine Affairs
- Comparative Immunology
- Environmental Studies
- Exile Studies
- Film Studies
- Forensic Science
- Law, Ethics and Society
- Linguistics Studies
- Post-baccalaureate Undergraduate Premedical
- Professional and Public Writing
- Queer Studies
- Women's and Gender Studies

Certificate Program in Actuarial Studies

Coordinating Committee

Hassan Zahedi, Director, Statistics
Julian Edward, Mathematics
Steve Hudson, Mathematics

The Certificate in Actuarial Studies is designed to provide a focus for those students who are interested in pursuing a career in the actuarial sciences. The primary emphasis of the Certificate program is on the mathematical and statistical background that forms the foundation of the work in this area.

This certificate program is open to degree seeking students only. The program is most obviously suitable for those students who are majoring in Mathematics or Statistics. It would also be valuable for those who wish eventually to enter the actuarial field, but choose to major

in an allied discipline, such as Business or Computer Science. In addition, it allows access to those students who are currently working in this area and wish to develop or upgrade their skills.

Upon completion of the following requirements, a student may apply for the Certificate in Actuarial Studies. The Certificate will be awarded at the time of awarding a Bachelor's degree, or upon completion of this work if the student already has a Bachelor's degree.

Statistics and Mathematics Required Courses: (20)

a) MAC 2311	Calculus I	4
b) MAC 2312	Calculus II	4
c) MAC 2313	Calculus III	4
d) MAS 3105	Linear Algebra	3
e) MAT 3930	Special Topics- Mathematics	1
f) STA 4321	Mathematical Statistics I	3
g) STA 3930	Special Topics-Statistics	1

Four options from the following list: (12)

a) STA 4322	Mathematical Statistics II	3
b) MAD 3401	Numerical Analysis	3
	or	
MAD 5405	Numerical Methods	3
c) STA 4603	Mathematical Techniques of Operations Research	3
	or	
MAP 5236	Operations Research	3
d) STA 4234	Introduction to Regression Analysis	3
	or	
STA 5236	Regression Analysis	3
e) ECO 2013	Principles of Macro-Economics	3
f) ECO 2023	Principles of Micro-Economics	3
g) ECO 4237	Money, Interest, and Capital	3
h) ACG 2021	Accounting for Decisions	3
i) ACG 3024	Introduction to Accounting for Managers and Investors	3
j) FIN 3403	Financial Management	3
k) COP 2210	Introduction to Programming	3
	or	
COP 3337	Intermediate Programming	3

An overall average of 'B' (3.0 GPA) or better in the 32 semester-hours of coursework listed above, with a grade of 'C' or better in each course. A minimum of 12 of these semester-hours must be earned in courses taken at the University.

Agroecology Certificate Program

Kateel Shetty, Director, Earth and Environment
Mahadev Bhat, Earth and Environment
Krish Jayachandran, Earth and Environment
Amir Khoddamzadeh, Earth and Environment
Suzanne Koptur, Biological Sciences
Gail Hollander, Politics and International Relations
Adriana Campa, Dietetics and Nutrition

This interdisciplinary program is aimed at providing students with an opportunity to learn problems and issues that emerge from the interface between agriculture, natural ecosystems and urban areas. Students will gain an appreciation of how traditional agricultural production systems will influence the quality of natural ecosystems and human environment, and also what ecological and developmental pressure that agriculture comes under from

the human system. The program will emphasize natural and economic services that are provided by large agricultural areas interspersed between urban and natural areas. Students will learn structural changes that are necessary within agriculture in order to make it ecologically sustainable and community supported. The program includes farm- and field-level experiential learning through internships, field demonstrations and minor experiments. This certificate program is open to degree-seeking students only.

Requirements

Prescribed Courses and Other Requirements:

The Agroecology Certificate Program requires successful completion of the following four categories of course work, with a total of 17-18 credit hours:

1. Agroecology core requirement:

EVR 4274	Sustainable Agriculture – GL	3
EVR 4272	Agroecology – GL	3

2. Agricultural internship or problem analysis: Take any one of the following:

ACG 4941	Agriculture Internship	2
ISC 4940	Research Internship in Earth And Environment	2
BSC 4914	Student Research Lab	2
BSC 3949	Cooperative Education in Biology	2
BSC 4915L	Honors Research	2

As part of the above courses, student must complete a farm-, field-or lab-based internship that may involve working on farms, carrying out agro-ecological field observations, carrying out agricultural science lab experiments, conducting geo-spatial modeling, or conducting agriculture-related socio-economic analysis. Student will produce a report based on the internship experience. Students also will have the option of doing internship or conducting agroecology science experiments at USDA's Agricultural Research Service, Miami or other research or education institutions.

3. General agricultural/environmental science and social studies electives:

Take any three

HOR 3012	Introduction to Horticulture	3
EVR 4592	Soils and Ecosystems	3
EVR 3723	Natural Resources Valuation and Economics	3
AEB 4131	Farm Economics and Management	3
AGR 4240	Modern Crop Production	3
EVR 3010	Energy Flow in Natural and Man-made Systems	3
EVR 3013	Ecology of South Florida	3
GIS 3043	Introduction to GIS	3
EVR 4869L	Environmental Problem Solving	2
EVR 4026	Biotic Resources	3
EVR 4211	Water Resources	3
EVR 4310	Energy Resources	3
EVR 4321	Sustainable Resource Development	3
EVR 4323	Restoration Ecology	3
EVR 4401	Conservation Biology	3
EVR 4352	U.S. Environmental Policy	3
EVR 4415	Population and Environment	3
ECP 3302	Environmental Economics	3
ECP 4314	Natural Resource Economics	3
GEO 3510	Earth Resources – GL	3

GEO 4476	Political Ecology	3
GEO 4354	Geography/Global Food System – GL	3
GLY 3039	Environmental Geology	3
ENY 1004	General Entomology	3
ENY 4060	Advanced Entomology	3
IPM 4020	Integrated Pest Management	3
MCB 3020	General Microbiology	3
MCB 3020L	General Microbiology Lab	2
MCB 4603	Microbial Ecology	3
MCB 4653	Food Microbiology	3
PCB 2061	Introductory Genetics	3
PCB 4301	Freshwater Ecology	3
MCB 2000	Introductory Microbiology – GL	3
BOT 3014	Plant Life Histories	3
BOT 3154	Local Flora	3
BOT 3663	Tropical Botany	3
BOT 3810	Economic Botany	3
BOT 4503	Plant Physiology	3
BSC 4422	Biotechnology: Applications in Industry, Agriculture and Medicines	3
INR 3043	Population and Society	3
INR 4054	World Resources, World Order	3

The Certificate Committee will consider other courses toward the elective requirement on a case-by-case basis. Up to two courses taken at Miami Dade College or other colleges in the relevant areas of agricultural sciences, horticulture, ecology, and environmental sciences will count toward the general agricultural/environmental science and social studies elective requirement.

Biodiversity Conservation and Management Certificate Program

Joel Heinen, *Director, Earth and Environment*

The Undergraduate Certificate in Biodiversity Conservation and Management draws on areas of strength within the Department of Earth and Environment and the Department of Biological Sciences (College of Arts, Sciences and Education) to provide students with specialized knowledge about managing and conserving the earth's biological resources. It is designed for students who seek careers in agencies that manage and conserve biological resources, for people in the private sector who seek specialized knowledge in this area, for educators seeking advanced training, or for others interested in the topic. The certificate is managed by the Department of Earth and Environment and the Biodiversity and Conservation Certificate Committee. This certificate program is open to degree-seeking students only.

Admission Requirements

Students should have completed a minimum of 2 courses in general biology and one course in ecology as a prerequisite to the program.

Program Requirements

Students are required to take 18 credit hours of course work outlined below. Other related courses may be approved subject to consideration by the program director and committee on a case by case basis.

1. Foundational

EVR 4401	Conservation Biology	3	OCE 3014	Oceanography – <i>GL</i>	3
2. Biological Conservation Sciences 9 credits total			OCE 3014L	Oceanography Lab	1
<i>Take three courses from this list:</i>			OCP 3002	Physical Oceanography	3
BOT 4401	Plant Conservation Biology	3	Core Policy and Law Courses: (at least 3 credits)		
EVR 4323	Restoration Ecology	3	EVR 4356	Coastal and Marine Environmental Policy	3
EVR 4272	Agroecology – <i>GL</i>	3	HFT 3692	Ocean and Coastal Law for the Hospitality Industry	3
OCB 4070	Coastal Marine Conservation	3	INR 4412	International Law of the Sea	3
EVR 4374	Ecology and Management of Invasive Species	3	Other Primary Courses: (at least 3 credits)		
EVR 4592	Soils and Ecosystems	3	ANT 4305	Coastal Cultures	3
PCB 4452	Introduction to Wetland Ecology and Management	3	ART 3843	Land Art/Earth Art and Coastal Environment	3
<i>*Additional upper division courses in organismal biology in the Department of Biological Science can be counted for this certificate on a case-by-case basis. See catalogue for recent offerings.</i>			ENC 3363	Writing About the Environment	3
3. Integrated Biological Resources Management 6 credits total			LIT 4606	Literature of the Sea	3
<i>Take two courses from this list:</i>			HFT 4708	Coastal and Marine Tourism	3
EVR 4274	Sustainable Agriculture – <i>GL</i>	3	OCB 3264	Biology of Coral Reefs	3
EVR 4026	Ecology of Biotic Resources	3	OCB 4303	Biology of Marine Mammals	3
EVR 4411	Human Organizations and Ecosystem Management	3	OCB 4070	Coastal Marine Conservation	3
PCB 4467C	Marine Protected Areas – <i>GL</i>	4	Electives: (from 0 to 6 credits)		
BOT 3810	Economic Botany	3	EVR 1001	Introduction to Environmental Science – <i>GL</i>	3

Coastal and Marine Affairs Certificate Program

Ricardo Gonzalez, *Director, Global and Sociocultural Studies*

Coordinating Committee

John Berry, *Chemistry and Biochemistry*

Richard Brinn, *Biological Sciences*

Young Rae Choi, *Global and Sociocultural Studies*

Michael Heithaus, *Biological Sciences*

Diann Newman, *Hospitality Management*

Neptune Srimal, *Earth & Environment*

The purpose of the certificate in Coastal and Marine Affairs is to provide students with a broad multidisciplinary approach to the subject that includes courses not only from the sciences, but also the social sciences, humanities, arts, and the professional schools. In addition to the courses listed below, new courses are being added to support this theme as the Biscayne Bay Campus develops a new coastal environmental focus. Students should consult with the certificate director to identify new courses which may also be used to satisfy these requirements. This certificate program is open to degree-seeking students only.

Course Requirements

The certificate requires a total of 18 credit hours, from the following list:

Core Science courses: (at least 3 credits)

OCB 2003	Introductory Marine Biology – <i>GL</i>	3
OCB 2003L	Introductory Marine Biology Lab	1
OCB 3043	Marine Biology and Oceanography	3
OCB 3043L	Marine Biology and Oceanography Lab	1
OCE 2001	Introduction to Oceanography	3

EVR 1001L	Introduction to Environmental Science Lab	3
EVR 1017	Global Environment and Society – <i>GL</i>	1
EVR 3013	Ecology of South Florida	3
EVR 3013L	Ecology of South Florida Lab	1
GEA 2000	World Regional Geography – <i>GL</i>	3
GLY 1010	Physical Geology	3
GLY 1010L	Physical Geology Lab	1
HFT 3701	Sustainable Tourism Practices – <i>GL</i>	3
HFT 3770	Cruise Line Operations and Management	3
JOU 3314	Environmental Journalism	3
PHI 3640	Environmental Ethics – <i>GL</i>	3

No more than 9 credits total in biology, chemistry, and earth sciences may be used to satisfy the certificate requirements.

Courses that are not on this list may be substituted with permission of the certificate director.

Comparative Immunology Certificate Program

Charles H. Bigger, *Director, Biological Sciences*

Coordinating Committee

Sylvia Smith, *Biological Sciences*

This academic certificate provides students with in-depth training in the interdisciplinary research field of Comparative Immunology. In general, Comparative Immunology is the study of the immune responses and defenses of animals other than humans. Research areas include studies in domesticated animal health, the use of animal models for human biomedical research, and the hunt for natural products of biomedical interest. Additionally, in recent years, there has been an increasing interest and concern raised about wild life (terrestrial and aquatic) health and diseases. This field also includes the integration of immunology, endocrinology, and neuroscience.

Requirements

Prerequisite Courses

BSC 2010	General Biology I	3
BSC 2010L	General Biology Lab I	1
BSC 2011	General Biology II	3
BSC 2011L	General Biology Lab II	1
CHM 1045	General Chemistry I	3
CHM 1045L	General Chemistry I Lab	1
CHM 1046	General Chemistry II	3
CHM 1046L	General Chemistry II Lab	1
Total credits required: 20 semester hours		

Required Courses

PCB 4233	Immunology	3
PCB 4233L	Immunology Lab	1
PCB 5238	Marine Comparative Immunology Workshop	1
PCB 6236	Comparative Immunology	3
MLS 5515	Advanced Diagnostic Immunology	3
MLS 5937	Current Topics in Comparative Immunology	3

(students enroll for three semesters)

Choice of one: 3 credits required

PCB 6237	Immunogenetics
PCB 5754	Comparative Pathology
MLS 6180	Immunopathology

Three credits in a Comparative Immunology Lab in one of the following courses:

MLS 4905/6905	Independent Study
MLS 4910/6910	Directed Independent Research
BSC 4914/6916	Student Research Laboratory

Environmental Studies Certificate Program

Mahadev Bhat, *Director, Earth and Environment*

Coordinating Committee

Kevin Hill, *Politics and International Relations*

Suzanne Koptur, *Biology*

Rod Neumann, *Politics and International Relations*

Patricia Houle, *Earth and Environment*

The Certificate Program in Environmental Studies is designed to provide degree-seeking students in various majors with the unique perspective of interdisciplinary ecological education to both enrich and expand the breadth of their primary training. The Certificate seeks to provide participants with an analytic basis for understanding the milieu of local and global environmental problems and processes.

The program requires no prerequisite and is complementary to majors in all disciplines and schools at the University. A grade of "C" or better is required for all courses.

Requirements

The curriculum for the Environmental Studies Certificate consists of six courses (18-20 credits).

I. Two Environmental Science Courses:

EVR 3011	Environmental Resources and Pollution
or	

GEO 3510	Earth Resources
EVR 3013/L	Ecology of South Florida <u>and Lab</u>
Students with science backgrounds should take instead two environmental science courses from the following:	
EVR 4026	Biotic Resources
EVR 4211/L	Water Resources <u>and Lab</u>
EVR 4310	Energy Resources

II. Two additional Environmental Social Sciences courses from the following:

ANT 3403	Cultural Ecology
GEO 3421	Cultural Geography
ECP 3302	Environmental Economics
EVR 4415	Population and Environment Issues
EVR 4352	U.S. Environmental Policy
INR 4350	International Environmental Policy
PUP 3206	International Law and the Environment
POS 4035	Environmental Politics
REL 3492	Earth Ethics – GL

III. Two additional Environmental Electives from the following (students should check with the Director of the certificate for additional classes that may be used to satisfy the elective component):

AMH 4930	Environmental History
ANT 3403	Cultural Ecology
ANT 4552	Primate Behavior and Ecology
ANG 5267	Environmental Anthropology
BOT 3014	Plant Life Histories
BOT 3154	Local Flora & Lab
BSC 5825	Wildlife Biology
ECP 3302	Introduction to Environmental Economics
ECP 4314	Natural Resource Economics
ENY 4060	Advanced Entomology & Lab
EVR 3010	Energy Flows in Natural and Man-Made Systems
EVR 3013	Ecology of South Florida & Lab
EVR 4026	Biotic Resources
EVR 4211	Water Resources
EVR 4231	Air Resources
EVR 4310	Energy Resources
EVR 4321	Sustainable Resource Development
EVR 4323	Restoration Ecology
EVR 4351	U.S. Energy Policy
EVR 4352	U.S. Environmental Policy
EVR 4401	Conservation Biology
EVR 4415	Population and Environment Issues
EVR 4905	Independent Study
EVR 4934	Special Topics
EVR 5061	South Florida Ecology
EVR 5065	Ecology of Costa Rican Rainforest
EVR 6067	Tropical Forest Conservation
EVR 6300	Topics in Urban Ecology
EVR 5313	Renewable Energy Sources
EVR 5320	Environmental Resource Management
EVR 5353	International Energy Policy
EVR 5355	Environmental Resource Policy
EVR 6406	U.S. Endangered Species Management
EVR 5907	Research and Independent Study
EVR 5935	Special Topics
EVR 5936	Topics in Environmental Studies
GEO 3510	Earth Resources – GL
GEO 3421	Cultural Geography
GLY 3039	Environmental Geology & Lab

GIS 3043	Introduction to GIS	
HFT 3701	Sustainable Tourism Practices – <i>GL</i>	
INR 3043	Population and Society	
INR 4054	World Resources, World Order	
INR 4350	International Environmental Politics	
LIT 4930	Literature and the Environment	
MCB 4603	Microbial Ecology	
PCB 3043	Ecology & Lab	
PHI 3640	Environmental Ethics – <i>GL</i>	
PUP 3206	International Law and the Environment	
POS 4035	Environmental Politics	
REL 3492	Earth Ethics – <i>GL</i>	
ZOO 4462C	Herpetology	
Total Credit Hours:		18-20

Exile Studies Certificate Program

Asher Z. Milbauer, *Director and Professor, English*

Coordinating Committee

Michael Patrick Gillespie, *Professor, English*

Bruce Harvey, *Interim Director, Center for the Humanities, Associate Professor, English*

Tometro Hopkins, *Associate Professor, Linguistics*

Kenneth Johnson, *Associate Professor, English*

James Sutton, *Professor, English*

The Exile Studies Certificate Program will provide grounds for entry into the field of otherness through the reading of literary texts created by authors from around the world and suggest venues for comprehension of human differences and commonalities. Literature, as one of the most important forms of human activity, synthesizes and particularizes the rich often traumatic experiences of transplantation. It “has often acted as a sort of deep bridge across geographical borders, cultural mentalities, and ideological divides.” Studying the works of transplanted writers through the lenses of scholarly disciplines such as social sciences, arts and humanities, students in the Exile Studies Certificate Program explore the far-reaching universal implications of the phenomenon of exile. This certificate program is open to degree-seeking students only.

The curriculum for the Exile Studies Certificate consists of six courses (18 credits).

Core Requirements

LIT 4224	Exile and Literature: An Interdisciplinary Approach	3
LIT 4253	The Literature of Exile: A Comparative Literary Approach	3
	Independent Studies: Supervised Research in any relevant academic department	3

Elective Breadth Requirements

Literature: (3 credits)

AML 4300	Major American Writers	3
AML 4503	Periods in American Literature	3
AML 4930	Special Topics in American Literature	3
AML 5305	Major American Literary Figures	3
ENG 4121	History of the Film	3
ENG 4132	Studies in the Film	3
ENL 4242	Romanticism II	3
ENL 4303	Major British Writers	3
ENL 4320	Shakespeare: Histories	3

ENL 4341	Milton	3
ENL 4412	Anglo-Jewish Literature: 19 th Century to the Present	3
ENL 4503	Periods in English Literature	3
ENL 4930	Special Topics in English Literature	3
LIT 3170	Topics in Literature and Jewish Culture	3
LIT 3190	Survey of Caribbean Literature	3
LIT 3200	Themes in Literature	3
LIT 3384	Caribbean Women Writers	3
LIT 3673	Migrant Stories: Literature of the Immigration Experience	3
LIT 3674	Literature of the Jewish Immigration Experience	3
LIT 3930	Special Topics	3
LIT 4324	Classical Myth	3
LIT 4351	Major African Writers	3
LIT 4356	Literature of the Cuban Diaspora	3
LIT 4364	Post Totalitarian Literature – <i>GL</i>	3
LIT 4931	Special Topics in Women’s Literature	3
FRW 4123	Travel, Exile, and Cross-Cultural Encounters	3
FRW 4750	Francophone Literature of Africa	3
FRW 4751	Francophone Literature in the Caribbean	3
SPT 4813	The Interpreter and Language	3
ENG 4906	Independent Study	1-20

Social Sciences: (3 credits)

Psychology

DEP 4324	Psychology of Identity Development	3
CLP 2001	Personal Adjustment	3

Politics and International Relations

INR 3043	Population and Society	3
INR 3045	The Global Challenge of Refugees and Migrants	3
INR 4075	International Protection of Human Rights – <i>GL</i>	3
INR 4411	International Humanitarian Law	3
POS 3258	Politics on Film	3
CPO 4726	Ethnicity and Nationality: World Patterns and Problems	3
INR 4054	World Resources and World Order	3
CPO 4053	Political Repression and Human Rights	3
CPO 4057	Political Violence and Revolution – <i>GL</i>	3
POS 4314	American Ethnic Politics	3
CPO 3055	Authoritarians and Democrats	3
CPO 4725	Comparative Genocide	3

Global and Sociocultural Studies

ANT 4473	Culture and Globalization – <i>GL</i>	3
SYD 4237	Immigration and Refugees	3
SYD 4606	World Jewish Communities	3
SYD 4621	Cubans in the U.S.	3
SYD 4700	Racial and Ethnic Relations	3
SYP 4454	Globalization and Society	3
ANT 3610	Language and Culture	3
SYD 3620	Sociology of Miami	3

Religious Studies

REL 3112	Religion and Literature	3
REL 3220	Moses, Priests and Prophets	3
REL 3325	Religions of Classical Mythology	3
REL 3607	Judaism	3
REL 3194	The Holocaust	3
REL 3308	Studies in World Religions – <i>GL</i>	3

REL 3111	Religion in Film – GL	3
REL 3282	Archaeology of Israel	3
REL 3320	Moses, Jesus, Muhammad	3
REL 3344	Tibetan Buddhism	3
REL 3367	Islamic Faith and Society – GL	3
REL 3695	The Golden Age of Sephardic Jewry	3
REL 4224	The Prophets and Israel	3

History

AMH 3331	American Intellectual History I	3
AMH 3332	American Intellectual History II	3
AMH 4930	Topics in U.S. History	3
EUH 3576	The Russian Revolution and the Soviet Union	3
EUH 3611	European Cultural and Intellectual History	3
EUH 4033	Nazism and the Holocaust	3
EUH 4462	History of Modern Germany, 1815-1945	3
HIS 3308	War and Society	3
WOH 3281	Jewish History to 1750	3
WOH 3282	Modern Jewish History	3
WOH 4230	The African Diaspora and the Atlantic Slave Trade	3
WOH 4301	The Modern African Diaspora	3
LAH 4471	Colonial Caribbean in Comparative Perspective	3

Arts/Humanities (3 credits)**Art and Art History**

ARH 4430	Art and Politics	3
ARH 4610	American Art	3
ARH 4470	Contemporary Art – GL	3

Architecture

ARC 3031	Miami in Film	3
ARC 3741	Urban Architecture and the 20 th Century	3
ARC 3797	Hotels: Miami and La Habana at Mid-Century	3
ARC 4030	Film and the Architecture of Modern Life	3
ARC 4752	Architectural History of the Americas	3
ARC 4755	The Architecture of the City	3

Theatre

THE 4110	Theatre History I – GL	3
THE 4111	Theatre History II	3
THE 4314	Classical Dramatic Literature	3
THE 4370	Modern Dramatic Literature	3

Music

MUH 3019	History of Popular Music in the U.S.	3
MUH 3514	Music of the World – GL	3

Linguistics

LIN 4624	Bilingualism and Language Policies	3
LIN 4722	Problems in Language Learning	3
LIN 4710	Language Acquisition	3
LIN 5601	Sociolinguistics	3
LIN 5720	Second Language Acquisition	3
LIN 5825	Pragmatics	3

Graduate Linguistics courses require the permission of the instructor

Humanities

HUM 2512	Art and Society	3
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In addition to the courses listed above, other courses may be applied/accepted with the approval of the Certificate Director.

Film Studies Certificate Program

The Film Studies Certificate Program enables students to obtain an interdisciplinary concentration in film studies. The certificate program will enable students to study this important field in a rigorous systematic fashion. Film is the major art form and communication medium that transmits culture, influences society, and both reflects and shapes human conduct. Furthermore, film links diverse cultures through depiction of national societies and through language exposure. The Certificate in Film Studies will therefore give recognition to a significant medium that generates innovative theoretical, historical, literary and creative methodologies. The certificate will enhance interdisciplinary connections among Modern Languages, English, Sociology, Anthropology, Architecture, Visual Arts, History, Religious Studies and other departments. Students will have a unique opportunity to access new films, film archives, film makers, internships and related benefits. This certificate will complement studies in other fields and enable students to obtain an intellectual background in the theories and methodologies of film culture. Moreover, it will enhance students' visual literacy and competency. This certificate program is open to degree-seeking students only.

This program will require 18 credit-hours (6 courses) from the following certificate course listing, or others approved by the certificate program advisor. These courses should be understood as a partial list; students should consult with the advisor of the certificate program about current course offerings. Students are required to take a minimum of two courses from departments other than English.

Requirements

FIL 3006	Introduction to Film Studies
ENG 4121	History of Film

Twelve (12) elective credits from the following partial list:

ARC 4030	Film and the Architecture of Modern Life	3
ENC 4355	Writing About Film	3
ENG 3138	The Movies	3
ENG 4319	Film Humor and Comedy	3
ENG 4132	Studies in the Film	3
ENG 4134	Women and Film	3
ENG 4135	The Rhetoric of Cinema	3
FIL 4940	Internship in Film Studies	1-12
ENG 6935	Special Topics in College Pedagogy (when film is the topic)	3
CRW 5620	Advanced Screenwriting Workshop	3
AMH 3317	America and the Movies	3
LAH 4734	Latin American History Through Film – GL	3
HUM 4580	Film and the Humanities	3
FIL 5825	Spanish Film	3
FIL 5846	Latin American Film	3
FRE 4391	French Cinema	3
POW 4390	Brazilian Cinema	3
SPW 4391	Contemporary Spanish Cinema	3
SPW 4580	El Dorado in Hispanic Literature and Film	3
SPW 5781	The Representation of Women in Spanish Literature and Film	3

SPW 6495	The Latin American Experience Through Literature and Film	3
REL 3111	Religion in Film – GL	3
SYP 4631	Sociology Through Film	3
ARH 4905	Directed Studies (when offered as film studies)	1-6
ARH 5907	Directed Studies (when offered as film studies)	1-6
FIL 2000	Introduction to Film-Making	3
FIL 3201C	Film Technique I	3
FIL 4204	Film Technique II	3

Forensic Science Certificate Program

Anthony P. DeCaprio, *Director, Chemistry/IFRI*

Coordinating Committee

Jose R. Almirall, *Chemistry/IFRI*

W. Clinton Terry, *Criminal Justice*

Jeffrey D. Wells, *Biological Sciences*

Administered by the International Forensic Research Institute (IFRI) the Certificate in Forensic Science is designed to provide a focus for those students who are interested in pursuing a laboratory career in the forensic sciences. The program is available to FIU B.S. students majoring in chemistry or biology who wish to enter the field of forensic science. The program also allows FIU B.A. students and other persons in the community who have already earned a B.S. or B.A. in chemistry, biology, or a natural science from another institution to work toward and receive a Certificate in Forensic Science. The FIU Certificate in Forensic Science program is accredited by the Forensic Science Education Programs Accreditation Commission (FEPAC) provided that it is accompanied by a B.S. degree in chemistry or biology from FIU.

The field of forensic science is interdisciplinary and requires significant training in the natural sciences. The prerequisites for admission into the Forensic Science Certificate Program are as follows: 1 calculus course, 1 statistics course, 1 general biology course with lab, 2 physics courses with labs, 2 general chemistry courses with labs, 2 organic chemistry courses with labs, 1 analytical chemistry course with lab, and 1 biochemistry course. Upon completion of the prerequisites and the following additional forensic coursework, the student may be awarded the Certificate. The certificate will be awarded at the time of awarding the Bachelor's degree, or upon completion of this work if the student already has a Bachelor's degree. The program consists 19-20 credits as detailed below. This certificate is open to degree- and non-degree seeking students only.

Requirements

Required Courses: (16 credits)

CHS 3501	Survey of Forensic Science	3
CHS 3501L	Survey of Forensic Science Laboratory	1
CHS 4503C	Forensic Science	3
	or	
CHM 5542	Forensic Chemistry	3
CHS 3511C	Forensic Evidence	3
	or	
CHS 5535	Forensic Analysis	3
BSC 4401	Principles of Forensic Biology	3

	or	
BSC 5406	Forensic Biology	3
CHS 4591	Forensic Science Internship	3
	or	
CHS 6946	Graduate Forensic Internship	3

Elective course: (3-4 credits) chosen from the following or others in consultation with the Program Director:

PCB 4524	Molecular Biology	3
PCB 4524L	Molecular Biology Lab	1
PCB 3063	Genetics	3
PCB 3063L	Genetics Lab	1
BOT 1010	Introductory Botany	3
CHM 4130	Instrumental Analysis	3
CHM 4130L	Instrumental Analysis Lab	2
CHS 5539	Forensic Toxicology	3
CHS 5538C	Chemistry and Analysis of Drugs	3
CCJ 2020	Introduction to Criminal Justice	3
CCJ 3651	Drugs and Crime	3
CCJ 4225	The Courts and Forensic Science	3
GLY 3039	Environmental Geology	3
SOP 4842	Legal Psychology	3

Law, Ethics and Society Certificate Program

Kenton Harris, *Director*

Coordinating Committee

Sean Allen-Hermanson, *Philosophy*

Paul Warren, *Philosophy*

This program offers a course of studies in the broad field of normative or value issues. The program seeks to develop a curriculum which will study these issues from a variety of perspectives. From philosophy we offer courses in ethical theory, social and political theory and various applied ethical courses—courses in medical ethics, business ethics, environmental ethics and so on. From political science the student sees how normative issues are considered in law and politics. In this context it is appropriate to have courses dealing with constitutional interpretation of rulings like affirmative action, environmental regulation and the like. From sociology and anthropology the student takes courses dealing with how values are incorporated in our society and how such values compare to other societies around the world. This certificate program is open to degree-seeking students only.

Requirements

Required Courses:

1. The certificate requires six (3 credit) courses from the following lists.
2. Two core (starred) courses are required.
3. Of the six courses, including core courses, at least one course must be taken from each of the following categories—Ethics, Law, & Legal Reasoning, and Society

Law & Legal Reasoning

CJL 3512	The Courts
ECO 4703	International Trade Theory and Policy
EVR 4352	US Environmental Policy

EVR 4356	Coastal and Marine Environmental Policy
INR 3403	International Law
MMC 4200	Mass Media Law and Ethics
PHI 2100	Introduction to Logic
PHM 3400	Philosophy of Law*
PHM 4430	Topics in Philosophy of Law
POS 3283	The Judicial Process
POS 3603	Constitutional Law: Powers*
POS 3604	Constitutional Law: Limit*
POS 3652	Law and the Legal Profession
POT 3054	Modern Political Theory
Ethics	
CPO 4053	Political Repression and Human Rights
INR 4075	International Protection of Human Rights
INR 4091	Ethical Problems in International Relations
PHI 2600	Introduction to Ethics
PHI 3601	Ethics*
PHI 3638	Contemporary Ethical Issues*
PHI 3640	Environmental Ethics
PHI 4633	Biomedical Ethics
PHM 3200	Social and Political Philosophy
PHM 4360	Topics in Political Philosophy
Society	
CPO 4047	Politics of North American Cooperation
CPO 4057	Political Violence and Revolution – GL
CPO 4062	Comparative Judicial Politics
CPO 4394	Race and Politics in the Americas
ECP 3541	Law and Economics
INR 3081	Contemporary International Problems
LAH 3718	History of US-Latin American Relations
PAD 4046	Public Values, Ethics and Morality in a Changing Environment
PHM 4123	Philosophy and Feminism*
PHM 4362	Global Justice*
PHM 4510	Marxism
POT 3302	Political Ideologies
PSY 4842	Legal Psychology
PSY 4930	Advanced Special Topics in Psychology (depending on topic- e.g. Children and the Law, Psychology of Wrongful Convictions*)
SYG 3325	Deviance in Society
SYP 3520	Criminology
SYP 3550	Juvenile Delinquency

Linguistic Studies Certificate Program

Ellen Thompson, *Director and Professor, Linguistics*

Coordinating Committee

Melissa Baralt, *Modern Languages*

Jean-Robert Cadely, *Modern Languages*

Phillip M. Carter, *English*

Tometro Hopkins, *English*

Peter Machonis, *Modern Languages*

Bennett Schwartz, *Psychology*

Mehmet Yavas, *English*

In addition to an M.A. in Linguistics, the Linguistics Program at Florida International University offers a Certificate in Linguistics. The Certificate is designed to meet the needs of those who have a general interest in

linguistics, as well as those for whom work in linguistics would assist in career planning or advancement. Both undergraduate and graduate students are eligible to earn the certificate. This certificate program is open to both degree- and non-degree seeking students.

A student can acquire a Certificate in Linguistic Studies by successfully completing at least six courses in linguistics or linguistics-related courses, totaling eighteen credit hours. Students should consult a certificate advisor in selecting courses.

Requirements

All students must complete one introductory course and one structure course from the courses listed below for a total of six credit hours:

A minimum of one course from each of the following groups:

Introductory Courses

LIN 3010	General Linguistics	3
LIN 3013	General Linguistics	3
LIN 5018	Introduction to Linguistics	3

Structure Courses

LIN 4680	Modern English Grammar	3
FRE 4800	French Morphology	3
SPN 4802	Contrastive Syntax	3
LIN 5501	English Syntax	3

Four additional courses: (12)

In addition to the required courses stated above, all students must complete an additional four courses totaling twelve credits. Any course with an LIN prefix fulfills this requirement with the exception of LIN 3670 - Grammatical Usage. Linguistics courses with FOL, FRE, POR, and SPN prefixes also fulfill this requirement. Permission must be received from the Program Director to take courses with these prefixes. PHI 4221 (Philosophy of Language) and MHF 4302 (Mathematical Logic) also fulfill this requirement.

In addition to the requirements noted above, all of the requirements for obtaining a bachelor's degree from the University must be met, or the student must already possess a bachelor's degree.

With the advice of the Coordinating Committee, the student is encouraged to attain some degree of proficiency in a language other than his or her native language.

A Coordinating Committee representing various fields will advise students and grant the Certificate.

Post-baccalaureate Undergraduate Premedical Certificate

Joseph Lichter, *Director, Office of Pre-Health Professional Advising and Senior Instructor, Chemistry and Biochemistry*

Steering Committee

Michael Brown, *Senior Instructor, Biomedical Engineering*

Milagros Delgado, *Senior Lecturer, Chemistry and Biochemistry*

Kenton Harris, *Lecturer, Philosophy*

Jeffrey Joens, *Professor, Chemistry and Biochemistry*

The certificate consists of a minimum of 15 credits of upper division premedical coursework, as well as up to an additional 35 credits of prerequisite coursework depending on the academic background of the student. It is designed to enable students to take the coursework required for medical school admission, to facilitate success on the MCAT exam, and due to its interdisciplinary nature, enhance understanding of medical issues. This certificate program is open to degree-seeking students only.

Admissions Requirements

Through the FIU Office of Pre-Health Professions Advising, a wide variety of student services and opportunities are available to the students in this program as they are for the traditional FIU premedical students.

Prerequisite(s):

The following courses are required for admissions to medical school and many other health professional schools. They are also prerequisites for course work required by this certificate program. Once enrolled in the Post-baccalaureate Undergraduate Premedical Certificate Program, any of these courses not already completed must be taken at FIU. **A grade of "C" or better is required in all courses ("C-" is not acceptable).**

CHM 1045	General Chemistry I	3
CHM 1045L	General Chemistry Lab I	1
CHM 1046	General Chemistry II	3
CHM 1046L	General Chemistry Lab II	1
BSC 2010	General Biology I	3
BSC 2010L	General Biology I Lab	1
BSC 2011	General Biology II	3
BSC 2011L	General Biology II Lab	1
PHY 2053	Physics without Calculus I	4
	or	
PHY 2048	Physics with Calculus I	4
PHY 2048L	General Physics Lab I	1
PHY 2054	Physics without Calculus II	4
	or	
PHY 2049	Physics with Calculus II	4
PHY 2049L	General Physics Lab II	1
CHM 2210	Organic Chemistry I	4
CHM 2210L	Organic Chemistry Lab I	1
CHM 2211	Organic Chemistry II	3
CHM 2211L	Organic Chemistry Lab II	1

Required Courses (12 credits):

BCH 3033	General Biochemistry	3
	Or	
CHM 4304	Biological Chemistry I	3
PCB 3063	Genetics	3
PCB 4023	Cell Biology	3
	One Physiology Course at the 3000 level or higher with the approval of the Certificate Program Director.	3

Elective Courses (3 credits):

Must complete ONE of the following. A grade of "C" or better is required in all courses ("C-" is not acceptable).

REL 3180	Medical and Bioethics	3
PHI 4633	Biomedical Ethics	3
ANT 3462	Medical Anthropology	3
SYO 3400	Health & Medicine in Society	3

Additional Requirements

To remain in the Post-baccalaureate Undergraduate Premedical Certificate Program students must maintain a **3.0** overall/institutional GPA or higher. To be awarded the Post-baccalaureate Undergraduate Premedical Certificate the student must achieve a minimum overall GPA of **3.0**.

Professional and Public Writing Certificate Program

Kimberly Harrison, *Director of Writing Programs*
Maheba Pedroso, *Certificate Director*

The Undergraduate Certificate in Professional and Public Writing is an 18-hour program open to degree-seeking students only. Firmly grounded in rhetoric, the certificate provides an opportunity for students interested in improving their writing skills in preparation for their professional careers and civic responsibilities. Students will be advised to select courses based upon their professional interests. They might focus the certificate in areas such as technical writing, scientific and environmental writing, or community-based writing.

To receive a Writing Certificate, a student must complete the required 18 credit hours with an average grade of "B" or better. Up to six credit hours of course work may be transferred from other institutions.

Required Hours: 18 hours

Prerequisites: ENC 1101 and 1102 or equivalent. Transfer students who take ENC 2304 and an additional 3000 level ENC class (either ENC 3311 or 3213) to fulfill core curriculum ENC requirements must take an additional fifteen hours above core requirements to earn the certificate.

Students choose 6 courses from the selections below:

Required Course: (3 credits)

ENC 3371	Rhetorical Theory and Practice	3
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Digital Literacy (3 credits)

CGS 2060	Introduction to Microcomputers	3
CGS 2518	Computer Data Analysis	3
COP 3835	Designing Web Pages	3

Writing Electives (12 credits)

ENC 3204	Advanced Business Writing	3
ENC 3213	Professional and Technical Writing	3
ENC 3311	Advanced Writing and Research	3
ENC 3334	Introduction to Writing Studies	3
ENC 3354	Writing as Social Action	3
ENC 3363	Writing about the Environment	3
ENC 3378	Writing Across Borders	3
ENC 3416	Writing & New Media	3
ENC 3491	The Processes of Writing	3
ENC 4241	Scientific Writing	3
ENC 4260	Advanced Professional Writing	3
ENC 4331	Writing, Rhetoric, and Community	3
ENC 4355	Writing about Film	3
ENC 4357	How to Go Public	3
ENC 4373	Alternative Writing and Rhetorics	3
ENC 4405	Queer Rhetorics	3
CRW 4211	Writing Creative Non-Fiction	3
LIN 4680	Modern English Grammar	3
ENC 4930	Special Topics in Composition	3
SPN 3440	Spanish Business	

Composition/Correspondence 3

Note: In addition to the courses listed above, other classes may be accepted at the discretion of the certificate directors.

Queer Studies Certificate Program

Yesim Darici, *Director, Center for Women's and Gender Studies and Professor of Physics*

Justin Grant, *Instructor, Writing and Rhetoric/ Women's and Gender Studies*

The Certificate in Queer Studies will empower students to learn through a rigorous study of the experiences of queer individuals and communities globally from historical, literary, sociological, religious, psychological and anthropological perspectives. Working across disciplinary fields, the program will encourage students to investigate how non-normative or minority sexual identities intersect with other categories of identity, such as race, gender, class, nation, ethnicity, and disability. This certificate program is open to degree-seeking students only.

Requirements: (18 credits)

Core Class: 3 credits

WST 3641 LGBT and Beyond: Non-Normative Sexualities in Global Perspective – GL 3

Electives: Select Five Classes (15 credits)

Advisors within Women's and Gender Studies will aid in directing students to courses supporting LGBT/Queer studies offered by Women's and Gender Studies affiliated faculty. Students can, therefore, choose courses from across a range of disciplines. Possible courses include:

AFA 4372	Race, Gender and Sexuality in Hip Hop – GL	3
AFS 3332	Genders and Sexualities in Sub-Saharan African Contexts	3
ANT 3302	Sex, Gender, & Culture	3
ENC 4930	Special Topics (Queer Rhetorics)	3
ENG 4141/ WST 4334	Queer Cinema	3
ENG 4845	Queer Studies: Literature, Culture and Theory	3
HIS 4315/ WST 4930	Gendered History of the Body	3
LIT 4930	Special Topics (Gender and Sexuality in the European Renaissance)	3
PHM 4020	Love and Sexuality	3
POT 4309	Sex, Power and Politics	3
PRT 4993	LGBTQ Culture in Brazil	3
REL 3171	Sex and Religion	3
REL 4434	Religion and Queer Theory	3
SOP 4774	Female Sexuality	3
SYD 3804	Sociology of Gender	3
SYG 3325	Deviance in Society	3
SYG 4060	Sociology of Sexuality	3
WST 3106	Introduction to Global Diversity	3
WST 3644	Introduction to Transgender Studies	3
WST 4504	Feminist Theory	3
WST 4905	Independent Study	3

or

Independent Study: Supervised research in any relevant field or discipline after approval by the advisor.

Note: In addition to the courses listed above, other classes may be accepted at the discretion of the certificate directors.

Women's and Gender Studies Certificate Program

Yesim Darici, *Director, Center for Women's and Gender Studies and Professor of Physics*

Victoria Burns, *Instructor, Women's and Gender Studies*

Michaela Moura-Koçoğlu, *Instructor, Women's and Gender Studies*

The Women's and Gender Studies Undergraduate Certificate provides an opportunity for students to integrate scholarship about women and gender differences from a variety of disciplines into a coherent program of study. This certificate program is open to degree-seeking students only. The Certificate Program includes a core of required courses central to an understanding of gender issues in a social and historical context. The courses provide a basic grounding in Women's and Gender Studies that should be useful in many majors and in preparation for graduate study and professional training. The core courses are supplemented by a variety of electives to be chosen according to the student's specific interests. Students may enroll in the Certificate Program or take courses as electives. For a list of course offerings, see the section 'Academics' on our website at: <http://cwgs.fiu.edu/>.

The program also offers a Bachelor of Arts in Women's and Gender Studies. For information about the major, refer to the Women's and Gender Studies section in the Arts and Sciences undergraduate major section.

The Center is located in DM 212, Modesto A. Maidique Campus, (305) 348-2408. Students may contact the Center for Women's and Gender Studies at the above location, or by email: wstudies@fiu.edu.

Requirements

A student may acquire the Certificate in Women's and Gender Studies by fulfilling the following requirements:

I. Certificate Core Requirements

(Select 3 courses. May also be used as electives)

AMH 3560	History of Women in the U.S. (or any approved History elective)
CLP 4314*	Psychology of Health and Illness – GL
ECS 3021*	Women Culture and Economic Development – GL
REL 3145*	Women and Religion
POS 4072	Women in Politics
SOP 3742*	Psychology of Women
SOP 4774*	Female Sexuality
SYD 3804*	Sociology of Gender
WST 4252	Race, Gender, Sexuality: Entanglements Across Time and Space
WST 3011	Understanding and Preventing Campus Sexual Assault
WST 3015*	Introduction to Global Gender and Women's Studies – GL
WST 3106	Introduction to Global Diversity – GL

WST 3114/ INR 4931	Sex Trafficking Solutions – GL	HIS 4930** HIS 4935 INR 4085	Special Topics Senior Seminar Women and Men in International Relations
WST 3120 WST 3641*	Global Women's Writing – GL LGBT and Beyond: Non-Normative Sexualities in Global Perspective – GL	LAH 4721 LBS 4154 LBS 4210 LIN 4651 LIT 3384 LIT 4382	History of Women in Latin America – GL Workers and Diversity – GL Women And Work – GL Gender And Language Caribbean Women Writers Women in Post-Communist Eastern Europe
WST 3644 WST 4115	Introduction to Transgender Studies Gender Violence and the Law: Global Perspectives – GL	LIT 4536	Multi-cultural Working Class Women's Literature
WST 4230/ LIT 4931	Women Write Empire	LIT 4930** LIT 4931	Special Topics Special Topics in Women's Literature
WST 4504 WST 4905 WST 4930*	Feminist Theory Independent Study ¹ Special Topics (online availability depends on the topic)	MAN 4102 PHM 4020 PHM 4123 POS 4073 POS 4605 POT 3304 POT 4309 REL 3171 REL 3520 REL 4105 REL 4146 REL 4361 REL 4364	Managing Diversity Love and Sexuality Philosophy and Feminism The Military and the Citizen Gender Justice Feminist Political Theory Sex, Power and Politics Sex and Religion Saints, Witches, and Cathedrals Latino/a Immigration and Religion Feminist Theology and Ethics Women in Islam Interpreting the Quran: Gender and Jihad – GL
WST 4931 WST 4940	Women in Leadership Internship	SOP 4731 SOP 4745 SPC 3711 SYD 3811 SYD 4800 SYD 4820 SYG 4060 SYO 3120 SYP 3456 SYP 4562 WST 4272	Global Psychology Women and Leadership Gender and Communication Feminist Theories in Sociology Theories of Gender & Society Sociology of Men Sexualities & Society Families and Social Change Societies in the World Domestic Violence History of Women and Gender in the Modern Middle East
<i>(Must be approved by the director. Please visit our website for eligibility criteria and application procedures at http://cwgs.fiu.edu/)</i>		WST 4334 WST 4642	Queer Cinema Gender and Sexuality in Islamic Cultures
¹ Off campus, local, national and international options will be considered.			
* These courses are also available online.			
II. Approved Electives² (Select 3 courses)			
² Below are some examples of our approved electives. To see the complete list of electives every semester, please visit our website: http://cwgs.fiu.edu/ .			
AFA 4372	Race, Gender and Sexuality in Hip Hop – GL		
AMH 4561	Early American Women's History		
AMH 4562	Modern American Women's History		
AML 4263**	Contemporary Southern Writers		
AML 4300**	Major American Writers		
AML 4503	Periods in American Literature		
AML 4606**	Studies in 19th-Century African American Literature		
AML 4607**	Studies in 20th-Century African American Literature		
AML 4624	African American Women Writers		
AML 4930**	Special Topics in American Literature		
ANT 3302	Sex, Gender, & Culture		
ANT 3304	Voices of Third World Women		
ANT 4334	Contemporary Latin American Women		
ARC 4227	Gender and Architecture		
ARH 4871	Women and Art		
CCJ 3666	Victimology		
CCJ 4663	Women, Crime and the Criminal Justice System		
CCJ 4694	Human Trafficking		
CLP 4314	Psychology of Health and Illness – GL		
DEP 3305	Psychology of Adolescence		
DEP 4014	Psychology of Parenting and Parenthood		
ENG 4134	Women And Film		
ENL 3261	19th Century British Women Novelists		
ENL 4212	Medieval Women Writers		
ENL 4370	Virginia Woolf and Her Circle		
ECP 3254	Women, Men, and Work in the USA		
EUH 4610	Women and Gender in Europe, 1750-Present		
FIL 4881	Hispanic Culture: Women and Film		
FRW 4583	Women Writers		
HIS 4311	History of Feminist Thought		
		**These courses are subject to approval on a semester by semester basis.	