

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
- Environmental Studies
- Exile Studies
- Film Studies
- Forensic Science
- Law, Ethics and Society
- Linguistic Studies
- 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

- | | | |
|-----------|---|---|
| HOS 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 |

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|-----------|--|---|
| GLY 3039 | Environmental Geology | 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 |
| 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
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2. **Biological Conservation Sciences 9 credits total**
 Take three courses from this list:

BOT 4401	Plant Conservation Biology	3
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EVR 4323	Restoration Ecology	3
EVR 4272	Agroecology – <i>GL</i>	3
OCB 4070	Coastal Marine Conservation	3
EVR 4374	Ecology and Management of Invasive Species	3
EVR 4592	Soils and Ecosystems	3
PCB 4452	Introduction to Wetland Ecology and Management	3

**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.*

3. Integrated Biological Resources Management 6 credits total

Take two courses from this list:

EVR 4274	Sustainable Agriculture – <i>GL</i>	3
EVR 4026	Ecology of Biotic Resources	3
EVR 4411	Human Organizations and Ecosystem Management	3
PCB 4467C	Marine Protected Areas – <i>GL</i>	4
BOT 3810	Economic Botany	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 2000	Introductory Marine Biology – <i>GL</i>	3
OCB 2000L	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
OCE 3014	Oceanography – <i>GL</i>	3
OCE 3014L	Oceanography Lab	1
OCP 3002	Physical Oceanography	3

Core Policy and Law Courses: (at least 3 credits)

EVR 4356	Coastal and Marine Environmental Policy	3
HFT 3692	Ocean and Coastal Law for the Hospitality Industry	3
INR 4412	International Law of the Sea	3
Other Primary Courses: (at least 3 credits)		
ANT 4305	Coastal Cultures	3
ART 3843	Land Art/Earth Art and Coastal Environment	3
ENC 3363	Writing About the Environment	3
LIT 4606	Literature of the Sea	3
HFT 4708	Coastal and Marine Tourism	3
OCB 3264	Biology of Coral Reefs	3
OCB 4303	Biology of Marine Mammals	3
OCB 4070	Coastal Marine Conservation	3

Electives: (from 0 to 6 credits)

EVR 1001	Introduction to Environmental Science – <i>GL</i>	3
EVR 1001L	Introduction to Environmental Science Lab	1
EVR 1017	Global Environment and Society – <i>GL</i>	3
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.

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 – GL	
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 – GL	
PUP 3206	International Law and the Environment	
POS 4035	Environmental Politics	
REL 3492	Earth Ethics – GL	
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, *Associate Professor, English*

Tometro Hopkins, *Associate Professor, Linguistics*

Kenneth Johnson, *Associate Professor, English*

James Sutton, *Associate 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	REL 3607	Judaism	3
ENL 4303	Major British Writers	3	REL 3194	The Holocaust	3
ENL 4320	Shakespeare: Histories	3	REL 3308	Studies in World Religions – <i>GL</i>	3
ENL 4341	Milton	3	REL 3111	Religion in Film – <i>GL</i>	3
ENL 4412	Anglo-Jewish Literature: 19 th Century to the Present	3	REL 3282	Archaeology of Israel	3
ENL 4503	Periods in English Literature	3	REL 3320	Moses, Jesus, Muhammad	3
ENL 4930	Special Topics in English Literature	3	REL 3344	Tibetan Buddhism	3
LIT 3170	Topics in Literature and Jewish Culture	3	REL 3367	Islamic Faith and Society – <i>GL</i>	3
LIT 3190	Survey of Caribbean Literature	3	REL 3695	The Golden Age of Sephardic Jewry	3
LIT 3200	Themes in Literature	3	REL 4224	The Prophets and Israel	3
LIT 3384	Caribbean Women Writers	3			
LIT 3673	Migrant Stories: Literature of the Immigration Experience	3	History		
LIT 3674	Literature of the Jewish Immigration Experience	3	AMH 3331	American Intellectual History I	3
LIT 3930	Special Topics	3	AMH 3332	American Intellectual History II	3
LIT 4324	Classical Myth	3	AMH 4930	Topics in U.S. History	3
LIT 4351	Major African Writers	3	EUH 3576	The Russian Revolution and the Soviet Union	3
LIT 4356	Literature of the Cuban Diaspora	3	EUH 3611	European Cultural and Intellectual History	3
LIT 4364	Post Totalitarian Literature – <i>GL</i>	3	EUH 4033	Nazism and the Holocaust	3
LIT 4931	Special Topics in Women's Literature	3	EUH 4462	History of Modern Germany, 1815-1945	3
FRW 4123	Travel, Exile, and Cross-Cultural Encounters	3	HIS 3308	War and Society	3
FRW 4750	Francophone Literature of Africa	3	WOH 3281	Jewish History to 1750	3
FRW 4751	Francophone Literature in the Caribbean	3	WOH 3282	Modern Jewish History	3
SPT 4813	The Interpreter and Language	3	WOH 4230	The African Diaspora and the Atlantic Slave Trade	3
ENG 4906	Independent Study	1-20	WOH 4301	The Modern African Diaspora	3
			LAH 4471	Colonial Caribbean in Comparative Perspective	3
Social Sciences: (3 credits)					
Psychology			Arts/Humanities (3 credits)		
DEP 4324	Psychology of Identity Development	3	Art and Art History		
CLP 2001	Personal Adjustment	3	ARH 4430	Art and Politics	3
			ARH 4610	American Art	3
Politics and International Relations			ARH 4470	Contemporary Art – <i>GL</i>	3
INR 3043	Population and Society	3			
INR 3045	The Global Challenge of Refugees and Migrants	3	Architecture		
INR 4075	International Protection of Human Rights – <i>GL</i>	3	ARC 3031	Miami in Film	3
INR 4411	International Humanitarian Law	3	ARC 3741	Urban Architecture and the 20 th Century	3
POS 3258	Politics on Film	3	ARC 3797	Hotels: Miami and La Habana at Mid-Century	3
CPO 4726	Ethnicity and Nationality: World Patterns and Problems	3	ARC 4030	Film and the Architecture of Modern Life	3
INR 4054	World Resources and World Order	3	ARC 4752	Architectural History of the Americas	3
CPO 4053	Political Repression and Human Rights	3	ARC 4755	The Architecture of the City	3
CPO 4057	Political Violence and Revolution – <i>GL</i>	3			
POS 4314	American Ethnic Politics	3	Theatre		
CPO 3055	Authoritarians and Democrats	3	THE 4110	Theatre History I – <i>GL</i>	3
CPO 4725	Comparative Genocide	3	THE 4111	Theatre History II	3
			THE 4314	Classical Dramatic Literature	3
Global and Sociocultural Studies			THE 4370	Modern Dramatic Literature	3
ANT 4473	Culture and Globalization – <i>GL</i>	3			
SYD 4237	Immigration and Refugees	3	Music		
SYD 4606	World Jewish Communities	3	MUH 3019	History of Popular Music in the U.S.	3
SYD 4621	Cubans in the U.S.	3	MUH 3514	Music of the World – <i>GL</i>	3
SYD 4700	Racial and Ethnic Relations	3			
SYP 4454	Globalization and Society	3	Linguistics		
ANT 3610	Language and Culture – <i>GL</i>	3	LIN 4624	Bilingualism and Language Policies	3
SYD 3620	Sociology of Miami	3	LIN 4722	Problems in Language Learning	3
			LIN 4710	Language Acquisition	3
Religious Studies			LIN 5601	Sociolinguistics	3
REL 3112	Religion and Literature	3	LIN 5720	Second Language Acquisition	3
REL 3220	Moses, Priests and Prophets	3	LIN 5825	Pragmatics	3
REL 3325	Religions of Classical Mythology	3			
			<i>Graduate Linguistics courses require the permission of the instructor</i>		
			Humanities		
			HUM 2512	Art and Society	3

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*

Yaobin Liu, *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 advises students and grants the Certificate.

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*

R. Gabriel Mayora, *Instructor, Women's and Gender Studies/ English*

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/	Gendered History of the Body	3
WST 4930		
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 – GL	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

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

R. Gabriel Mayora, Instructor, Women's and Gender Studies/ English

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

Jessy Abouarab, Visiting Assistant Professor, 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 – GL
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/	Sex Trafficking Solutions – GL
INR 4931	
WST 3120	Global Women's Writing – GL
WST 3641*	LGBT and Beyond: Non-Normative Sexualities in Global Perspective – GL
WST 3644	Introduction to Transgender Studies
WST 3710	Title IX: Sports, Sex and Equality on Campus
WST 4115	Gender Violence and the Law: Global Perspectives – GL
WST 4230/	Women Write Empire
LIT 4931	
WST 4504	Feminist Theory
WST 4905	Independent Study ¹
WST 4930*	Special Topics (online availability)

depends on the topic)
 WST 4931 Women in Leadership
 WST 4940 Internship
(Must be approved by the director. Please visit our website for eligibility criteria and application procedures at <http://cwgs.fiu.edu/>)

¹Off 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
 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
 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
 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 4930** Special Topics
 HIS 4935 Senior Seminar
 INR 4085 Women and Men in International Relations
 LAH 4721 History of Women in Latin America – GL
 LBS 4154 Workers and Diversity – GL
 LBS 4210 Women And Work – GL
 LIT 3384 Caribbean Women Writers
 LIT 4536 Multi-cultural Working Class Women's Literature
 LIT 4930** Special Topics
 LIT 4931 Special Topics in Women's Literature
 MAN 4102 Managing Diversity
 PHM 4020 Love and Sexuality
 PHM 4123 Philosophy and Feminism
 POS 4073 The Military and the Citizen
 POT 4309 Sex, Power and Politics
 REL 3171 Sex and Religion
 REL 4105 Latino/a Immigration and Religion
 REL 4364 Interpreting the Quran: Gender and Jihad – GL

SOP 4731 Global Psychology
 SOP 4745 Women and Leadership
 SPC 3711 Gender and Communication
 SYD 4800 Theories of Gender & Society
 SYG 4060 Sexualities & Society
 SYO 3120 Families and Social Change
 SYP 3456 Societies in the World
 WST 4272 History of Women and Gender in the Modern Middle East
 WST 4334 Queer Cinema
 WST 4642 Gender and Sexuality in Islamic Cultures

**These courses are subject to approval on a semester by semester basis.