



Alexandria University

Department of
Environmental
Studies



Academic Programs Guide



INSTITUTE OF GRADUATE STUDIES AND RESEARCH

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Preface

The environmental studies degree program's curriculum provides an integrated foundation of a broad array of scientific disciplines encompassing biological, chemical, physical, health, technological and socioeconomic aspects. The environmental studies department draws its expertise from a range of disciplines that are committed to involving enrolled students fully in the multidisciplinary nature of environmental problems and their solutions.

The department programs are designed to broaden perspectives, enrich awareness, deepen understanding, establish disciplined habits of thought, prepare for meaningful careers and thus develop students who are informed, responsible and productive citizens.

Academic Programs: List of Majors

Program	Type of degree	Career opportunities
Energy Conservation	Diploma	Most energy conservation diploma graduates can be employed by governmental or private factories, power stations, higher education institutions, utilities, charities, energy partnerships/agencies or environmental affairs department.
Environmental Management	Diploma	Career opportunities exist in managerial and policy positions in government, consulting firms and research, and in the private sector as environmental management system managers, auditors and policy analysts.
Remote Sensing and Geographic Information Systems	Diploma	GIS and remote sensing diploma graduates are introduced to several employment sectors and other areas dealing with spatial analysis applications, topographic surveying, geospatial database development, cartographic imaging and project planning / management.
Environmental Studies	Diploma	Environmental studies diploma qualifies environmental professional graduates that can participate in Governmental positions and Private-sector consulting firms and industry to help understand the environmental problems.
Environmental Studies	M.Sc.	Graduates of the environmental studies M.Sc. program will gain the knowledge, intellectual tools, and learning experiences to engage in an increasingly diverse set of career options. They will gain hands-on experience relevant to careers in government agencies, non-government organizations, industry, and academic fields.
Green innovation and Entrepreneurship	M.Sc.	A graduate of the green innovation and entrepreneurship master program are well equipped to work in the public or private sector, as well as, developing a career starting and/or managing a small business. The program also prepares students looking to undertake a research or consultancy role, or those looking to develop a career in academia.
Environmental Studies	Ph.D.	An environmental studies Ph.D. degree prepares graduates for a host of professions, for graduate work in environmental studies or the environmental sciences, or for a lifetime of environmentally aware citizenship.

Program Admission Requirements

Program	Admission requirements
Diploma program	<ul style="list-style-type: none">• The candidate should hold a B.Sc. or License degree from one of the Egyptian Universities with at least a general grade of "fair" or "C" granted by a faculty or an institute accredited by The Supreme Council of Universities in Egypt.
M.Sc. Program	<ul style="list-style-type: none">• The candidate should hold a B.Sc. or License degree from one of the Egyptian Universities with at least a general grade of "Good" or C⁺ or any equivalent degree granted by a faculty or an institute accredited by The Supreme Council of Universities in Egypt.• A candidate holding a B.Sc. or License degree with grade of "Fair" can be enrolled for M.Sc. degree in the institute departments provided that the candidate obtains the academic diploma with a grade of at least C⁺ or pass additional supplementary courses with a grade of at least C⁺.
Ph.D. program	<ul style="list-style-type: none">• The candidate should hold a M.Sc. degree in the field of specialization from an Egyptian university, or any equal scientific degree granted by a faculty or an institute accredited by The Supreme Council of Universities in Egypt.• A candidate holding a M.Sc. degree in one of the fields outside those specified can be enrolled for Ph.D. degree in the institute departments provided that the candidate successfully passes additional supplementary courses approved by the department board.

Academic Program Descriptions

Remote Sensing and Geographic Information Systems Diploma

The RS and GIS diploma program aims to provide students with comprehensive background of the principles, applications, trends, and pertinent issues of geographical information systems and sciences, including remote sensing (RS) and to gain knowledge on the applications of environmental remote sensing and GIS which can directly enhance service delivery on land use management, ground water management/prospects, agriculture, forestry, food and water security, disaster management, etc.

Graduate attributes

Graduates of the RS and GIS diploma program will possess qualities, skills and understandings that enables them to:

- Describe the physical basis of remote sensing; these include spectral, temporal, spatial and resolution properties; the spectrum and its radiation and reflectance properties; and image properties.
- Appraise the application of photogram metric methods to topographic mapping, engineering projects and information gathering for geographic information systems.
- Develop ethical behavior during laboratory assignments and projects.
- Think and work in a synergistic approach, whereby documents of different sources are combined.
- Enhance self-study abilities.

Academic Program Descriptions (*continued*)

Energy Conservation Diploma

The aims of this program are, firstly, to develop awareness and skills in the area of energy management and conservation and secondly, to enable students to gain a working knowledge of energy conservation and the skills to provide practical recommendations on efficiency opportunities. The diploma helps the students to focus general insights into various aspects of energy conservation measures.

Graduate attributes

Energy conservation diploma program prepares graduates with the capacities to:

- Provide energy efficiency advice and training.
- Promote energy conservation schemes.
- Develop, implement and monitor energy consumption reduction policies and strategies.
- Analyse data and collect information.
- Write plans and professional reports.
- Undertake energy surveys/site inspections.
- Keep up to date with changes in legislation and initiatives, including EU energy performance directives.
- Promote energy conservation awareness via events such as presentations, workshops and conservation projects.

Academic Program Descriptions (*continued*)

Environmental Management Diploma

The program aims to produce graduates with the capability to constructively engage with the complex environmental concerns that confront contemporary societies. It emphasizes the integration of theory and practice and provides an interdisciplinary grounding in sustainability, environmental management, impact assessment and policy. On completion of the program, the graduate will have a good understanding of the key approaches in environmental management, sustainability and decision-making, and well developed problem solving skills. The diploma of Environmental Management is an introduction to engaging students with contemporary environmental concerns from practical and theoretical perspectives.

Graduate attributes

The program provides graduates with comprehension and skills that enables them to:

- Apply the knowledge and foundations of sustainable development in professional practice.
- Identify the environmental problems in relation to the international regulatory frameworks for climate change & environmental management.
- Show professional skills in applying the appropriate environmental technological means.
- Communicate and work effectively in teams through the professional system.
- Use the available resources efficiently.
- Show the awareness of his role in community sustainable development and natural resource management.
- Reflect the commitment to act with integrity and credibility.
- Gain new knowledge and trends and continually enhance professional skills by self-learning to improve the understanding of the new trends in environmental management issues.

Academic Program Descriptions (*continued*)

Environmental Studies Diploma

The Diploma of Environmental Studies offers a multidisciplinary opportunity to understand the biological, physical, chemical, technological, economical principles governing the environment and the social and cultural aspects that influence human behaviour towards the environment. Students will gain a basic knowledge of the environment through courses with interdisciplinary context. The diploma will equip students with the critical and analytical skills to think through the many complex factors that influence our understanding of the environment.

Graduate attributes

Graduates of the environmental studies diploma will possess qualities, skills and understanding that enables them to:

- Apply the knowledge of the integrated environmental sciences and their related disciplines in his/her professional career.
- Identify the environmental problems and suggest suitable solutions.
- Show professional skills in applying the appropriate environmental technological means.
- Communicate and work effectively in teams through the professional system.
- Demonstrate decision-making capabilities in the light of available information.
- Use the available resources efficiently.
- Show the awareness of his role in community development and preservation of the environment.
- Reflect the commitment to act with integrity and credibility.
- Gain new knowledge and continually enhance professionally skills by self-learning to improve the understanding of the new trends in environmental issues.

Academic Program Descriptions (*continued*)

M.Sc. Program of Environmental Studies

The M.Sc. program of Environmental Studies aims to:

- Provide a large comprehensive background of knowledge, understanding and skills with a multidisciplinary context in the field of environmental studies and related disciplines.
- Enhance research necessary to develop approaches that help preserve, conserve, protect or enhance the environment for future generations.
- Link the industrial sector to the professionally qualified academic environmental scientists to help understand the complex environmental problems facing this sector and to find integrative solutions or mitigation measures to these problems.

Graduate attributes

M.Sc. program prepares high caliber graduates that are capable to:

- Build comprehensive background knowledge and understanding of a broad spectrum of environmental sciences and their related disciplines.
- Apply the knowledge of environmental sciences, their related disciplines, applications and tools to manage/solve environmental problems.
- Consider the detrimental effects of human and non-human activities on the environment and propose sustainable solutions to environmental problems.
- Utilize analytical methods in scientific research and enhance available information to improve the comprehension and manipulation of environmental issues and concerns.
- Posses multidisciplinary and flexible professional skills to take decision related to environmental problems.
- Disseminate the environmental knowledge and experience through effective interaction to enhance the performance of the profession.
- Develop skills of writing and presenting dissertations, research assignments, professional reports and/or academic papers.
- Use general ICT tools effectively.
- Hold professional values that maintain individuality, positive thinking, self-confidence and ethicality.

Academic Program Descriptions (*continued*)

M.Sc. Program in Green Innovation and Entrepreneurship

The program provides students with an opportunity to gain a recognized competence through an institutional framework integrating capabilities and expertise in the cooperating department.

The green innovation and entrepreneurship master program aims at:

- Providing opportunities for students to develop critical awareness of current issues in the field of innovation and entrepreneurship.
- Providing students with opportunities for blended learning using appropriate information and communication technologies.
- Providing students with both multidisciplinary and integrated perspectives that can be employed in the analysis of professional problems in the context of innovation and entrepreneurship.
- Providing an opportunity for students to identify and analyse and analyse the context of the application of their learning.
- Facilitating personal, academic and professional development through a coherent program.

Graduate attributes

M.Sc. program prepares high caliber graduates that are capable to:

- Demonstrate deep discipline knowledge in the context of innovation and entrepreneurship in the wider range of sustainable development.
- Be able to apply theoretical knowledge that will lead to development of new ideas, methods, techniques, practices, products and services in a variety of contexts.
- Exhibit critical thinking and problem solving capacities steeped in research methods and based on empirical evidence and the scientific approach to knowledge development.
- Demonstrate capacity to manage problems and scientific issues from a multidisciplinary perspective.
- Critically analyze, synthesize, interpret and present complex scientific information in the context of innovation and entrepreneurship.

- **Collect, record and analyze data using state of the art techniques and equipment.**
- **Manage his/her own learning and development, including time management and research skills.**
- **Communicate proficiently, in oral, written, presentation and information searching skills.**
- **Be assertive and articulate, be able to negotiate responsibly and persuade others effectively.**
- **Identify and work towards targets for personal, academic and career development.**
- **Display professional responsibility, as well as, ethical, societal and community concerns.**
- **Be capable of self-reflection and a willingness to engage in self-appraisal.**

Ph.D. program of Environmental Studies

The Environmental Studies Ph.D. program engages within an extremely diverse array of environmental disciplines encompassing health, biological, physical, technological and socioeconomic aspects of environmental issues and concerns.

The program aims at:

- Cultivating and enhancing a multidisciplinary research culture that is critical for finding solutions to, or elucidating the root causes of, today's pressing environmental challenges,
- Enhancing the professional skills of the graduate towards the ability to think critically, creatively, and holistically about environmental issues as an active leading researcher or highly-specialized professional in academic, public, private or non profit organizations.

Graduate attributes

The Ph.D. program articulates graduates who are rigorous scholars having the abilities to:

- Agglomerate integrative knowledge from multiple disciplines to address scientific and/or real environmental problems.
- Disclose a thorough understanding of the local, scientific and legal aspects that shape environmental issues.
- Develop conversance with the breadth of environmental problems and possible solutions.
- Hold capacity to think critically, creatively, and holistically about environmental issues.
- Conceive, develop and conduct original research leading to useful applications in environmental sciences.
- Clarify critical gaps in scientific knowledge that impede the resolution of environmental problems and plan and execute original research that will lead to solutions of such problems.
- Show versatility in the topic of research integrity and apply in their work the ethical norms of behavior associated with their field of study.
- Exploit ICT techniques and skills in a manner tailored to the development of their profession.
- Demonstrate a reflective and mature approach to personal development in relation to academic study, professional advancement, and sensitivity to diversity in term of science and technology.

Program Study System

Diploma Programs

1. Remote Sensing and Geographic Information Systems Diploma Program

The following table lists the courses of remote sensing and geographic information system diploma program:

Course code	Course title	Credit hours
Compulsory courses		
2001601	Remote Sensing	3
2001602	Applications of Remote Sensing and Geographic information Systems	3
2001603	Environmental applications of Geographic information systems	3
Optional courses		
2001604	Applications of remote sensing and geographic information systems in the environment	3
2001605	Environmental systems and physical environment	3
2001606	Satellite image processing and analysis	3
2001607	Environmental risk assessment	3
2001608	Early warning systems and disaster risk reduction	3
2001609	Project	6

For completion of the program, a total of 21 credit hours* are required:

- 15 credit hours for the courses (9 credit hours compulsory courses + 6 credit hours optional courses)
- 6 credit hours for the diploma project (2001609)

* a maximum of 16 credit hours is allowed in the fall or spring semesters whereas a maximum of 9 credit hours is allowed in the summer semester.

The enrolled candidate is offered the degree when;

1. Passing 15CH of the courses with a CGPA of at least C⁺.
2. Successfully preparing and orally presenting the project in front of a committee assigned by the board of scientific department.

Program Study System (*continued*)

2. Energy Conservation Diploma Program

The following table lists the courses of energy conservation diploma program:

Course code	Course title	Credit hours
Compulsory courses		
2001631	Energy resources- heat insulation and heat transfer	3
2001632	Energy conservation technology	3
2001633	Energy utilization technology and science of combustion	3
Optional courses		
2001621	Media and environmental awareness	3
2001629	Applied statistics (1)	3
2001634	Operations research and energy modeling	3
2001635	Energy management and economics	3
2001636	Energy measurement instrumentation	3
2001609	Project	6

For completion of the program, a total of 21 credit hours* are required:

- 15 credit hours for the courses (9 credit hours compulsory courses+ 6 credit hours optional courses)
- 6 credit hours for the diploma project (2001637)

* a maximum of 16 credit hours is allowed in the fall or spring semesters whereas a maximum of 9 credit hours is allowed in the summer semester.

The enrolled candidate is offered the degree when;

1. Passing 15CH of the courses with a CGPA of at least C⁺.
2. Successfully preparing and orally presenting the project in front of a committee assigned by the board of scientific department.

Program Study System (*continued*)

3. Environmental management diploma program

The following table lists the courses of environmental management diploma program:

Course code	Course title	Credit hours
Compulsory courses		
2001616	Environmental management systems	3
2001617	Basics of environmental management	3
2001618	Environmental impact assessment of projects	3
Optional courses		
2001619	Environmental Systems	3
2001620	Environmental Regulations , laws and Policy	3
2001621	Media and Environmental Awareness	3
2001622	Environmental Education	3
2001623	Environmental Economics	3
2001624	Economic assessment of Environmental Projects (1)	3
2001625	Energy Management and Economics	3
2001609	Project	6

For completion of the program, a total of 21 credit hours* are required:

- 15 credit hours for the courses (9 credit hours compulsory courses + 6 credit hours optional courses)
- 6 credit hours for the diploma project (2001626)

* a maximum of 16 credit hours is allowed in the fall or spring semesters whereas a maximum of 9 credit hours is allowed in the summer semester.

The enrolled candidate is offered the degree when;

1. Passing 15 credit hours of the courses with a CGPA of at least C⁺.
2. Successfully preparing and orally presenting the project in front of a committee assigned by the board of scientific department.

Program Study System (*continued*)

4. Environmental studies diploma program

The following table lists the courses of environmental studies diploma program:

Course code	Course title	Credit hours
Compulsory courses		
2001604	Environmental Applications of Geographic Information Systems and Remote Sensing	3
2001616	Environmental management Systems	3
2001620	Environmental Regulations , Laws and Policy	3
Optional courses		
2001619	Environmental Systems	3
2001621	Media and environmental awareness	3
2001622	Environmental Education	3
2001627	Operations Research and Environmental Modeling	3
2001628	Basics of environmental management and economics	3
2001629	Applied statistics (1)	3
2001609	Project	6

For completion of the program, a total of 24 credit hours* are required:

- 18 credit hours for the courses (9 credit hours compulsory courses + 9 credit hours optional courses)
- 6 credit hours for the diploma project (2001630)

* a maximum of 16 credit hours is allowed in the fall or spring semesters whereas a maximum of 9 credit hours is allowed in the summer semester.

The enrolled candidate is offered the degree when;

1. Passing 18CH of the courses with a CGPA of at least C⁺.
2. Successfully preparing and orally presenting the project in front of a committee assigned by the board of scientific department.

Program Study System (*continued*)

Environmental Studies M.Sc. Program

The following table lists the courses of environmental studies M.Sc. program:

Course code	Course title	Credit hours
Compulsory courses		
2001701	Environmental systems and physical environment	3
2001702	Principles of applied ecology	3
2001703	Environmental laws, policy, management and economics	3
2001704	Natural resources	3
2001705	Advanced applied ecology	3
2001706	Environmental management and economics	3
2001707	Introduction to environmental toxicology	3
2001708	Environmental biochemistry	3
2001709	Environmental measurements	3
2001710	Biological health hazards	3
2001711	Technology of urban environment	3
Optional courses		
2001712	Effect of pollution on plants and animals	3
2001713	Methods of environmental measurements	3
2001714	Environmental impact assessment and auditing	3
2001715	Geographic information systems (3)	3
2001716	Remote sensing (3)	3
2001717	Air pollution	3
2001718	Geological and geochemical studies	3
2001719	Atomic radiations (effects and protection)	3
2001720	Operations research and environmental modeling (2)	3
2001721	Applied statistics (2)	3
2001722	Pesticides, environment and human health	3
2001723	Bio-treatment of wastes	3
2001724	Applied microbiology	3
2001725	Environmental biotechnology	3
2001726	Natural protectorates	3
2001727	Biomass and energy	3
2001728	Advanced environmental economics	3
2001729	Economics of natural resources	3
2001730	Environmental economic assessment	3
2001731	Economic tools for environmental management	3
2001732	Economic assessment of environmental projects (2)	3
2001733	Environment and trade liberalization	3
2001734	Environmental awareness	3
2001735	Family and environmental health	3

For completion of the program, a total of 32 credit hours* are required:

- **24 credit hours for the courses (9 credit hours compulsory courses + 15 credit hours optional courses)**
- **8 research credit hours for the thesis.**

* a maximum of 16 credit hours is allowed in the fall or spring semesters whereas a maximum of 9 credit hours is allowed in the summer semester.

The enrolled candidate is offered the degree when;

- 1. Passing the 24CH of the courses with a CGPA of at least C⁺.**
- 2. Passing an exam of English language proficiency from a granted center that is approved by the University.**
- 3. Successfully preparing and defending the thesis dissertation.**

Program Study System (*continued*)

Green Innovation and Entrepreneurship Master program

The following table lists the courses of Green Innovation and Entrepreneurship M.Sc. program:

Green Technologies Track

Course code	Course title	Credit hours
Compulsory courses		
2001751	Sustainable development, climate change and energy	3
2001752	Life cycle assessment	3
2001753	Innovation, management and entrepreneurship	3
2001754	Energy conservation	3
Optional courses		
2001755	Innovation, sectorial applications	3
2001713	Renewable energy resources	3
2001723	Biological treatment of waste	3
2001717	Air pollution	3
2001704	Natural resources	3
2001714	Environmental impact assessment for projects	3
2001703	The environmental laws and policies and management and economics	3
2001713	Environmental measurement and methodology	3
2001732	Economic assessment of environmental project	3
2001756	Technical writing for academic/research purposes	3
2001757	Establishing a new business	3
	Thesis	

Green innovation management and entrepreneurship track

Course code	Course title	Credit hours
Compulsory courses		
2001751	Sustainable development, climate change and energy	3
2001752	Life cycle assessment	3
2001753	Innovation, management and entrepreneurship	3
2001754	Energy conservation	3
Optional courses		
2001755	Innovation, sectorial applications	3
2001758	Financial management	3
2001759	Intellectual property (IP)	3
2001760	Managing the growing business	3
2001761	Project management	3
2001762	Sustainability, risk and corporate responsibility	3
2001757	Establishing a new business	3
2001703	The environmental laws and policies and management and economics	3
2001732	Economic assessment of environmental project	3
2001756	Technical writing for academic/research purposes	3
	Thesis	

Sustainable Cities Track

Course code	Course title	Credit hours
Compulsory courses		
2001751	Sustainable development, climate change and energy	3
2001752	Life cycle assessment	3
2001753	Innovation, management and entrepreneurship	3
2001761	Project management	3
Optional courses		
2001716	Introductory Remote Sensing	3
2001763	Risk Assessment	3
2001715	Geographic information system	3
2001764	Environmental design buildings	3
2001765	Sustainable urban design	3
2001766	Sustainable architecture	3
2001767	Water and environment in landscape	3
2001768	Energy measurement devices	3
2001769	Development of urban environment	3
2001703	The environmental laws and policies and management and economics	3
2001732	Economic assessment of environmental project	3
2001756	Technical writing for academic/research purposes	3
	Thesis	3

Sustainable Communities Track

Course code	Course title	Credit hours
Compulsory courses		
2001751	Sustainable development, climate change and energy	3
2001752	Life cycle assessment	3
2001753	Innovation, management and entrepreneurship	3
2001770	Business economics	3
Optional courses		
2001771	Community development	3
2001772	Social policy	3
2001773	Science of industrial society	3
2001704	Community based natural resource management	3
2001774	Cultural sustainability	3
2001775	Environment, culture and community	3
2001703	The environmental laws and policies and management and economics	3
2001756	Technical writing for academic/research purposes	3
	Thesis	3

For completion of the program, a total of 32 credit hours* are required:

- 24 credit hours for the courses (9 credit hours compulsory courses + 15 credit hours optional courses)
- 8 research credit hours for the thesis.

* a maximum of 16 credit hours is allowed in the fall or spring semesters whereas a maximum of 9 credit hours is allowed in the summer semester.

The enrolled candidate is offered the degree when;

4. Passing the 24CH of the courses with a CGPA of at least C⁺.
5. Passing an exam of English language proficiency from a granted center that is approved by the University.

Successfully preparing and defending the thesis dissertation.

Program Study System (*continued*)

Environmental Studies Ph.D. program

The following table lists the courses of environmental studies Ph.D. program:

Course code	Course title	Credit hours
Optional courses		
2001800	Environmental sciences and policies	3
2001801	Ecotoxicology	3
2001802	Environmental physics	3
2001803	Environmental systems optimization	3
2001804	Toxicology	3
2001805	Occupational health and environmental safety	3
2001806	Health and safety management	3
2001807	Food toxicology	3
2001808	Protein chemistry	3
2001809	Enzymes	3
2001810	Physiology of environmental stress	3
2001811	Recent trends in solid waste management	3
2001812	Environmental disasters management	3
2001813	Microbiology of stressed environments	3
2001814	Genetic control of microorganisms	3
2001815	Solid waste handling and management	3
2001816	Advanced air pollution	3
2001817	Advanced digital image processing and remote sensing	3
2001818	Climatic changes – regional effects and adaptation	3
2001819	Early warning systems and crisis reduction	3
2001820	Environmental risk assessment	3
2001821	Marine pollution (monitoring and control)	3
2001822	Integrated coastal zone management	3
2001823	Soil pollution (modeling and control)	3
2001824	Marine pollution monitoring and control	3
2001825	Environmental geology	3
2001826	Environmental oceanography	3
2001827	Data mining	3
2001828	Recovery processes of hazardous wastes	3
2001829	Industrial pollution control	3
2001830	Oxidants, antioxidants and free radicals	3
2001831	Geographic information systems and environmental applications	3
2001832	Economic assessment of environmental projects (3)	3
2001833	Natural protectorates	3
2001834	Environmental chemistry	3
2001835	Genetic toxicology	3
2001836	Elective course	3
2001837	Food and environmental toxins	3
2001838	Endocrine disruptors, reproductive toxicity and embryonic development	3

2001839	Standard methods for water analysis	3
2001840	Water treatment technology	3
2001841	Recent methods in industrial waste water treatment	3
2001842	Fresh water resources in Egypt	3

For completion of the program, a total of 42 credit hours* are required:

- **18 credit hours for the courses (all are optional courses)**
- **24 research credit hours for the thesis**

* a maximum of 16 credit hours is allowed in the fall or spring semesters whereas a maximum of 9 credit hours is allowed in the summer semester.

The enrolled candidate is offered the degree when;

- 1. Passing the 18CH of the courses with a CGPA of at least C⁺.**
- 2. Passing the comprehensive exam.**
- 3. Successfully preparing and defending the thesis dissertation.**

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