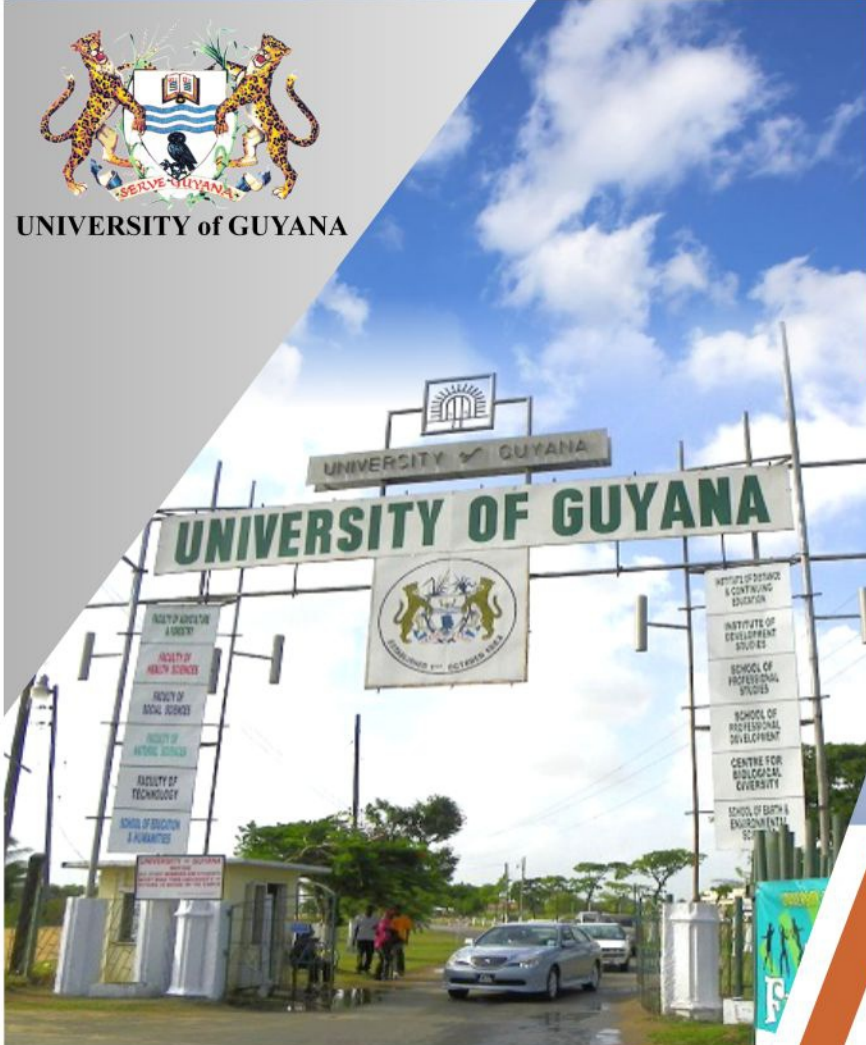




UNIVERSITY of GUYANA



DEPARTMENT OF ENVIRONMENTAL STUDIES (DoES), FACULTY OF EARTH AND ENVIRONMENTAL SCIENCES (FEES), MASTER OF SCIENCE & MASTER PROGRAMMES

TITLE OF PROGRAMMES

The Department of Environmental Studies, Faculty of Earth and Environmental Sciences is offering a Master of Science Degree or a Master Degree in four specialized programmes:

- i. Environmental Management
- ii. Natural Resources Management
- iii. Oil and Gas and Renewable Energy
- iv. Climate Change and Disaster Risk Management

GOALS

The Master of Science and Master degree programmes are both multidisciplinary and interdisciplinary and aims to build capacity amongst national and regional professionals by equipping them with the knowledge, skills, and technical expertise. Graduates will be able to effectively engage in environmental management, foster sustainable resource utilisation, deal with and respond to disasters, design and implement climate change mitigation and adaptation strategies and contribute to the management of Guyana's emerging Oil and Gas and Renewable Energy Sector.

DESCRIPTION OF PROGRAMMES

The Department of Environmental Studies (DoES) is offering the following programmes:

(i) Environmental Management (EM):

This programme seeks to promote the use of environmental safeguards in organisations and will provide skills and knowledge related to the processes or activities that cause environmental degradation and pollution, and the approaches to effect sustainable change. The programme provides exposure to analytical skills and research, current environmental management systems, green technology approaches, sustainable energy pathways, pollution control mechanism, environmental and occupational health.

(ii) Natural Resources Management (NRM):

This programme is designed to promote the sustainable management of natural resources within Guyana and territories which share a similar geophysical and tropical landscape. The aspiring Natural Resource Manager can garner specific skills needed for the management of ecosystems, parks, protected areas, and water, forest, land and coastal resources.

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(iii) Oil and Gas and Renewable Energy (OGRE):

This programme has emerged out of the need to furnish Guyana's Oil and Gas and Renewable Energy Sector with trained personnel possessing industry specific skills to promote the sustainable utilisation of energy resources. The programme offers a unique blend of courses such as Environmental Management of the Offshore Environment, Energy Economics, Renewable Energy Simulation, and Health, Safety and Environmental Management for the Oil and Gas Sector.

(iv) Climate Change and Disaster Risk Management (CCDRM):

This is a specialized programme designed to address Climate Change and Disaster Risk Management issues in Guyana and the wider Caribbean. The programme is multidisciplinary in structure merging the streams of Climate Change with that of Disaster Risk Management. The programme consists of core courses such as an Introduction to Climate Change Science and Modelling, Climate Change Policy and Negotiations, Climate Change Impacts, Mitigation and Adaptation, Community-Based Disaster Risk Management and Disaster Risk Management in the Caribbean.

STRUCTURE OF PROGRAMMES

The respective Master of Science and Master degree programmes consists of a combination of Core and Elective Courses which are to be completed over two (2) years (4 semesters).

To graduate with a Master of Science students are required to complete a total of twelve (12) courses in addition to a *Research Thesis* while the Master students are required to complete fourteen (14) courses inclusive of *Scientific Demonstrations Research and Environmental Leadership* courses.

The *Environmental Management* and *Natural Resources Management* programmes each have eight (8) core courses and four (4) electives while the *Oil and Gas and Renewable Energy* and the *Climate Change and Disaster Risk Management* programmes each consists of eleven (11) core courses one (1) elective course.

Graduation Requirements

- Students who complete their full complement of *Core and Elective Courses* and a *Research Thesis* will graduate with a Master of Science Degree.
- Students who complete their full complement of *Core and Elective Courses inclusive of, the Scientific Demonstration in Research and Environmental Leadership* courses will graduate with a Master Degree.
- A total number of sixty (60) credits is required for graduation for both the Master of Science and Master programmes.

TEACHING METHODS AND APPROACHES

The modules will be presented using hybrid approaches constituting 'in class sessions' and 'online platforms' such as *zoom* and *google classroom*. Modules will be delivered through various teaching strategies, including, lectures, seminars, tutorials, labs, and fieldwork.

All courses will be graded using the *Continuous Assessment Approach*.



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STAFF RESOURCES

The programmes will be delivered by a blend of full-time lecturers drawn from the department and various university faculties supported by part-time lecturers sourced from reputable local and international agencies, regional and international universities as well as the private sector.

PROGRAMME MANAGEMENT

Coordinator, Post Graduate Programmes: The programmes will be overseen by a Coordinator, who is a full-time staff of the DoES.

FINANCING AND COST

The cost per programme is GUY \$2,160,000 or US \$10,500 for Guyanese student while for foreign nationals the cost is GUY \$2,790,000 or US \$13,550.



ENTRY REQUIREMENTS

(A) Master of Science Degree Programmes:

For these programmes the primary entry requirement is an *undergraduate degree* with a minimum GPA of 2.5 in a relevant area of study (that is specified). Additionally, candidates with a *postgraduate diploma* with a minimum GPA of 2.5 in a relevant area of study as well as candidates with an *undergraduate degree* with a GPA of less than 2.5 in a relevant area of study and a minimum of 3 years relevant *post qualification experience* can also gain entry to the Master of Science Degree programmes. A detailed description of these requirements is provided below.

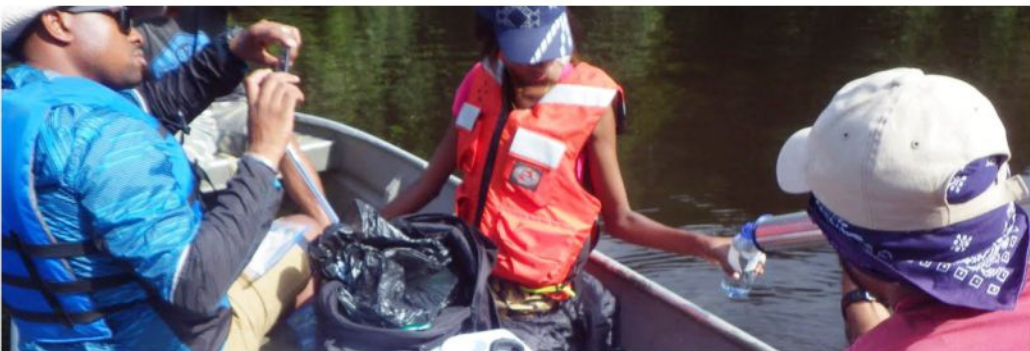
(B) Master Degree Programmes:

For these programmes the primary entry requirement is an *undergraduate degree* with a minimum GPA of 2.0 in a relevant area of study (that is specified). Additionally, candidates with a *postgraduate diploma* in a relevant area of study or a *mature candidate* (over 26 years) engaged in relevant practice for at least 5 years with Diplomas or Certificates can also gain entry to the Master Degree programmes. A detailed description of these requirements is provided below.

CAREER OPPORTUNITIES

Qualifications gleaned from the proposed programmes will generally prepare graduates for managerial and technical appointments within the specified fields. Potential job/career opportunities that may be pursued upon completion of our programmes include:

- *Climate Change Analyst*
- *Disaster Risk Management (DRM) Coordinator*
- *Environmental Monitoring Technician*
- *Environmental Policy Analyst*
- *Health, Safety and Environment (HSE) Manager*
- *Pollution Analyst*
- *Quality Control Analyst*



Commencement Date October, 2021



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APPLICANTS SHOULD POSSESS: Entry Requirement Options for Master of Science Degree Programmes

| Environmental Management | Natural Resources Management | Oil and Gas and Renewable Energy | Climate Change and Disaster Risk Management |
|--|---|---|--|
| Master of Science Degrees | | | |
| <p><i>i.</i> An undergraduate degree with a minimum GPA of 2.5 in a relevant area, including Environmental and Earth Sciences, Natural Sciences, Forestry, Agriculture, Engineering, Architecture, Management, Economics, Law or a related field.</p> <p><i>ii.</i> An undergraduate degree with a GPA of less than 2.5 in a relevant area with a minimum of 3 years relevant post qualification experience.</p> <p><i>iii.</i> A Postgraduate Diploma with a minimum GPA of 2.5 in a relevant <i>field (approved by the Department of Environmental Studies).</i></p> | <p><i>i.</i> An undergraduate degree with a minimum GPA of 2.5 in a relevant area, including Environmental and Earth Sciences, Natural Sciences, Forestry, Agriculture, Engineering, Architecture, Management, Economics, Law, or a related field.</p> <p><i>ii.</i> An undergraduate degree with a GPA of less than 2.5 in a relevant area with a minimum of 3 years relevant post qualification experience.</p> <p><i>iii.</i> A Postgraduate Diploma with a minimum GPA of 2.5 in a relevant <i>field (approved by the Department of Environmental Studies).</i></p> | <p><i>i.</i> An undergraduate degree with a minimum GPA of 2.5 in a relevant area, including Environmental and Earth Sciences, Natural Sciences, Engineering, Economics or a related science or engineering field.</p> <p><i>ii.</i> An undergraduate degree with a GPA of less than 2.5 in a relevant (science or engineering) area with a minimum of 3 years relevant post qualification experience.</p> <p><i>iii.</i> A Postgraduate Diploma with a minimum GPA of 2.5 in a relevant science or engineering field (<i>approved by the Department of Environmental Studies).</i></p> | <p><i>i.</i> An undergraduate degree with a minimum GPA of 2.5 in a relevant area, including Environmental and Earth Sciences, Natural Sciences, Forestry, Agriculture, Engineering, Economics or a related science or engineering field.</p> <p><i>ii.</i> An undergraduate degree with a GPA of less than 2.5 in a relevant (science or engineering) area with a minimum of 3 years relevant post qualification experience.</p> <p><i>iii.</i> A Postgraduate Diploma with a minimum GPA of 2.5 in a relevant science or engineering field (<i>approved by the Department of Environmental Studies).</i></p> |

APPLICANTS SHOULD POSSESS:

Entry Requirement Options for Master Degree Programmes

| Environmental Management | Natural Resources Management | Oil and Gas and Renewable Energy | Climate Change and Disaster Risk Management |
|---|--|--|---|
| Master Degrees | | | |
| <p><i>i.</i> An undergraduate degree in a relevant area, including Environmental and Earth Sciences, Natural Sciences, Forestry, Agriculture, Engineering, Architecture, Management, Economics, Law, or a related field.</p> <p><i>ii.</i> A Postgraduate Diploma in a relevant field (approved by the Department of Environmental Studies).</p> <p><i>iii.</i> A mature student (over 26 years) engaged in relevant practice for at least 5 years with Diplomas or Certificates (approved by the Department of Environmental Studies).</p> <p><i>iv.</i> Any other qualification deemed by the University to be equivalent to the above.</p> | <p><i>i.</i> An undergraduate degree in a relevant area, including Environmental and Earth Sciences, Natural Sciences, Forestry, Agriculture, Engineering, Architecture, Management, Economics, Law or a related field.</p> <p><i>ii.</i> A Postgraduate Diploma in a relevant field (approved by the Department of Environmental Studies).</p> <p><i>iii.</i> A mature student (over 26 years) engaged in relevant practice for at least 5 years with Diplomas or Certificates (approved by the Department of Environmental Studies).</p> <p><i>iv.</i> Any other qualification deemed by the University to be equivalent to the above.</p> | <p><i>i.</i> An undergraduate degree in a relevant area, including Environmental and Earth Sciences, Natural Sciences, Engineering, Economics or a related science or engineering field.</p> <p><i>ii.</i> A Postgraduate Diploma in a relevant science or engineering field (approved by the Department of Environmental Studies).</p> <p><i>iii.</i> A mature student (over 26 years) engaged in relevant practice for at least 5 years with Diplomas or Certificates in relevant science or engineering areas (approved by the Department of Environmental Studies).</p> <p><i>iv.</i> Any other qualification deemed by the University to be equivalent to the above.</p> | <p><i>i.</i> An undergraduate degree in a relevant area, including Environmental and Earth Sciences, Natural Sciences, Forestry, Agriculture, Engineering, Economics or a related science or engineering field.</p> <p><i>ii.</i> A Postgraduate Diploma in a relevant science or engineering field (approved by the Department of Environmental Studies).</p> <p><i>iii.</i> A mature student (over 26 years) engaged in relevant practice for at least 5 years with Diplomas or Certificates in Climate Change or related areas (approved by the Department of Environmental Studies).</p> <p><i>iv.</i> Any other qualification deemed by the University to be equivalent to the above.</p> |