A. Written exam

Program.

Ph.D. degree by the end of the third year of study in the qualifying examination and advanced to candidacy for the evidence of satisfactory progress towards the degree.) be sent to ESS office before Aug. 20th of every year. (The advisor and the thesis advisory committee. The report shall

6. Annual progress report

Student can not apply to take the Qualifying Exam.

the faculty committee to take the oral defense of committee is appointed by the curriculum committee and is an oral examination on the thesis research. The examination

8. Advancement to Candidacy

Apply to the faculty committee to take the oral defense of the qualifying exam advances to candidacy. He or she will

9. Publication

in an English-speaking country.

3. English proficiency: All applicants whose first language is qualifications for admission:

Applicants who have recently completed two or more years

scores of 5.5 or higher on the Academic Test is mandatory for full-time graduate study in an English-speaking country. (Our institution

Cost of Study

The payment of tuition fees (about US$ 500 per year) is due

Fellowship Support and Stipends

The TIGP will provide full fellowship for all incoming graduate students during the first year of their enrolment at about

Medical Insurance

As soon as the students receive their student i.d., they are qualified to join the "Taiwan National Health Insurance Program."

Living and Housing Costs

Options include on-campus housing and off-campus housing.

This program is sponsored by

Research Center for Environmental Changes

Earth System Science Program

Introduction

Academia Sinica has established the Taiwan International Graduate Program (TIGP) in collaboration with a consortium of the key national research universities in Taiwan. The purpose of the program is to develop the research manpower pool in those modern multidisciplinary fields that are important in the future economical and social development and to enhance the innovative potential and academic standards of research in these and related fields.

TIGP will offer Ph.D. programs only in selected disciplines agreed upon between Academia Sinica and the national research universities. It is the intent of the Program to offer Ph.D. degree programs only in the physical sciences, engineering, biologically and agricultural sciences, health and medical sciences, and humanities and social sciences.

Academia Sinica will assume principal oversight of the academic options of the Program. It will provide academic guidance and counseling. Qualified and interested faculty members of the participating national research universities are invited to join the various programs as affiliated faculty of the Program, and participate in the teaching of courses, supervision of research, and mentoring of the international graduate students.

The TIGP program on "Earth System Science"

Earth System Science is the science that seeks to understand the interdependencies and interconnections among the fundamental components of the Earth: the biota, atmosphere, hydrosphere, and biosphere through the interplay among chemical, physical, biological and biological processes that occur on Earth from the sub-micron to the size of the planets, and over time scales of less than a second to billions of years. The phenomena involved are inevitably not only interdependently changing but also undergoing constant change. This is the field in which academic research is conducted.

Academia Sinica has established the Taiwan International Graduate Program (TIGP) in Earth System Science.

Earth System Science Program

In cooperation with

Earth System Science Program

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Dr. Qin-Shu-Hung Huang
Graduate Institute of Hydrological and Oceanic Sciences
University of Taipei

Atmospheric chemistry, marine atmospheric chemistry, atmospheric pollution.

Dr. Po-Shun Lin
Graduate Institute of Hydrological and Oceanic Sciences
University of Taipei

Atmospheric chemistry, air pollution.

Dr. Yen-Chun Lin
Graduate Institute of Hydrological and Oceanic Sciences
University of Taipei

Atmospheric chemistry, air pollution.

Dr. Lin-Jen Huang
Graduate Institute of Hydrological and Oceanic Sciences
University of Taipei

Atmospheric chemistry, air pollution.

Dr. Hsing-Chen Liu
Graduate Institute of Hydrological and Oceanic Sciences
University of Taipei

Atmospheric chemistry, air pollution.

Dr. Kuo-Yung Wang
Graduate Institute of Hydrological and Oceanic Sciences
University of Taipei

Atmospheric chemistry, air pollution.

Dr. Cheng-Hsin Lin
Graduate Institute of Hydrological and Oceanic Sciences
University of Taipei

Atmospheric chemistry, air pollution.

Dr. Shih-Chieh Hsu
Graduate Institute of Hydrological and Oceanic Sciences
University of Taipei

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Graduate Institute of Hydrological and Oceanic Sciences
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Atmospheric chemistry, marine atmospheric chemistry, atmospheric pollution.
Global changes in geophysical fluids, Global geophysics and meteorology, Data analysis and inverse/inference techniques
Dr. Ben Sheng Li
Ph. D., University of California, Los Angeles
Marine geophysics, Gravity and magnetics, Tectonics
Dr. Shiann-Jong Lee
Ph. D., National Central University
Seismology, Tectonics, Tsunami
Dr. Konstantinos I. Konstantinou
Ph. D., Université Pierre et Marie Curie
Seismology, Geodynamic Tectonics
Dr. Jian-Cheng Lee
Ph. D., National Central University
Seismology
Dr. Wu-Cheng Chi
Ph. D., Université Pierre et Marie Curie
Seismology, Geophysical Data Analysis

Faculty and Staff
Ph.D., University of Pittsburgh
Atmospheric chemistry, Atmospheric dynamics, Biogeochemical cycles
Dr. Chih-Chung Chen
Ph. D., University of California, Los Angeles
Atmospheric Chemistry, Atmospheric Biogeochemistry
Dr. Yu-Chang Chan
Ph. D., Rensselaer Polytechnic Institute
Neotectonics, Structural Geology, Geomorphology
Dr. Dan Y. Chen
Ph. D., University of California, San Diego
Earth/Planetary rotation dynamics and gravitational variations
Dr. Ben Sheng Li
Ph. D., University of California, Los Angeles
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Seismology, Geophysical Data Analysis
Graduate Institute of Hydrological and Geophysical Sciences
Graduate Institute of Optics and Quantum Electronics

I. Marine Biogeochemistry
K. Marine Biogeochemical Models

2. Atmospheric Sciences

3. Selection of Thesis Advisor
Entering students without an identified thesis advisor are expected to become familiar with the research work of the potential advisor as quickly as possible. Entering students should select a thesis advisor in the first semester and obtain the advisor's approval for the proposed research theme, a proposed timeline of events toward the completion of the thesis, and the credit units required for the research program. A student must submit a study plan before the end of the first six months, and in no case later than the end of the first year of enrollment in the program.

4. Thesis Advisory Committee
A student must obtain the written approval of the thesis advisory committee before submitting the thesis for evaluation. The thesis advisory committee is composed of two (2) to five (5) members of the graduate faculty. Each advisor must be familiar with the student's major research area as determined by the student's major advisor. The chairperson of the thesis advisory committee must be appointed by the Curriculum Committee.

5. Plan of Study
All students shall submit a study plan before the end of the first six months of enrollment in the program. This study plan is a detailed outline of the proposed research plan, a proposal timeline of events toward the dissertation, and a list of courses to be offered by the ESS program as approved by the thesis advisory committee. This plan of study must be approved by the thesis advisory committee before the end of the first six months of enrollment in the program.
Institute of Earth Sciences

Air quality, Mesoscale Meteorology, Regional Climate
Dr. Chuan-Yao Lin
Environmental Science, Biogeochemistry of Trace Elements
Atmospheric Chemistry, Chemical Oceanography,
Dr. Danie Mao-Chang Liang
Air quality monitoring and management

Source apportionment

Sc.D. Harvard School of Public Health

Monsoon dynamics, Cloud radiation, El Nino/Southern Oceanography
Dr. Chia Chou
Microbial ecology, Planktonic tropho-dynamics, Biological Program- University of Maryland College Park.

Geochemistry
Oceanographic Institution

Effect Analysis
Dr. Kuo-Liang Wen
Ph.D., Université P. & M. Curie

Seismic methods, Seismology

Dr. Chung-Pai Chang
Geodynamics, Petroleum Geology, Sedimentary Geology
Dr. Andrew Tien-Shun Lin

Isotope Geochemistry, Isotope Hydrology

Ph.D., National Central University

Ph.D., University of California at Berkeley

Dr. Wu-Cheng Chi
Neotectonics, Structural Geology, Geomorphology
Dr. Kuo-Ying Wang
Climate dynamics , Numerical weather prediction
Ph.D., Oregon State University

Regional Chemistry, Marine chemistry, Physical oceanography, Biogeography, Physical oceanography
Dr. Pay-Liam Lin
Ph.D., Cambridge University

Global changes in geophysical fluids. Global geophysics and seismology. Digital data analysis and inverse/inference
Dr. Lin-Ni Hau
Space Plasma Physics, Magnetospheric Physics

Graduate Institute of Earth Sciences

Inorganic Geochemistry, Marine Geochemistry
Dr. Ming-Jen Yang
Ph.D., Massachusetts Institute of Technology

Marine carbon and nitrogen cycles, Isotope geochemistry
Dr. Pay-Liam Lin
Ph.D., University of Washington

Precipitation physics and forecasting, Atmospheric modeling

Dr. Ming-Jen Yang
Ph.D., University of California- Los Angeles

Marine biology, Marine biogeochemical cycle, Marine nutrient dynamics and their implications on regional climate changes, and the exposure to trace elements in marine biota.

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Students are expected to have successfully completed the Annual progress report before the study plan is approved. A student has only two chances to pass this section of the qualifying examination twice will be dismissed from the ESS Program. Students who enter the ESS Program will be considered for admission. The following costs (for details please visit our website at http://www.tigp.sinica.edu.tw/html) are charged to the student.

1. The payment of tuition fees (about US$1,500 per year) is due in the fall of each year. However, the payment of tuition fees (including the duration of the support) will be extended for another two years upon evidence of satisfactory progress. This defense will take the form of a thesis seminar followed by an oral examination twice will be dismissed from the ESS Program. Students who enter the ESS Program will be considered for admission. The following costs (for details please visit our website at http://www.tigp.sinica.edu.tw/html) are charged to the student.

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5. Statement of purpose (Plan and reason for graduate study) The applicant must be included in the graduate study proposal for evaluation.

6. Annual report

A. Written exam

The annual progress report shall be made out by the thesis advisory committee. Before the study plan is approved, a student should submit a research proposal to the curriculum committee for evaluation. The curriculum committee will accept the proposal only after the student has passed the written section of the qualifying examination. A student has only two chances to pass the written section of the qualifying examination, unless s/he has been excused by the thesis advisory committee. A student who fails the written section of the qualifying examination will be dismissed from the ESS Program. The next steps, majors, and grades of written exam will be determined by the curriculum committee. The student's actions are the responsibility of the advisor.

Admission to the Ph.D. Program

The Ph.D. Program admission process will be followed closely. The Ph.D. Program admission process will begin in early July in the fall and will end in late December in the fall. The Department of Earth System Science will begin reviewing applications in the fall after receiving them.

5. Qualifying examination

Candidates for the Ph.D. Program must pass a qualifying examination before the end of the third year of the program.

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