

環境韌性規劃

防災技術發展

Disaster Risk Assessment
under Climate Change

Impact of Climate Change on
Geological Carbon and Water Cycle

Natural Hazard Damage
Assessment and Economic Analysis

Geoinformatics and
Risk Assessment

Reliability Analysis for
Disaster Prevention

Stochastic Modeling and
Hydroclimatic Risk Mapping

Disaster and Society

Disaster Preparedness: Reduction and Recovery

Seminar on Emergency Evacuation

Disaster Management and Resilience

Environmental Change
and Sustainable Development

Modern Geospatial Techniques and
Disaster Prevention Applications

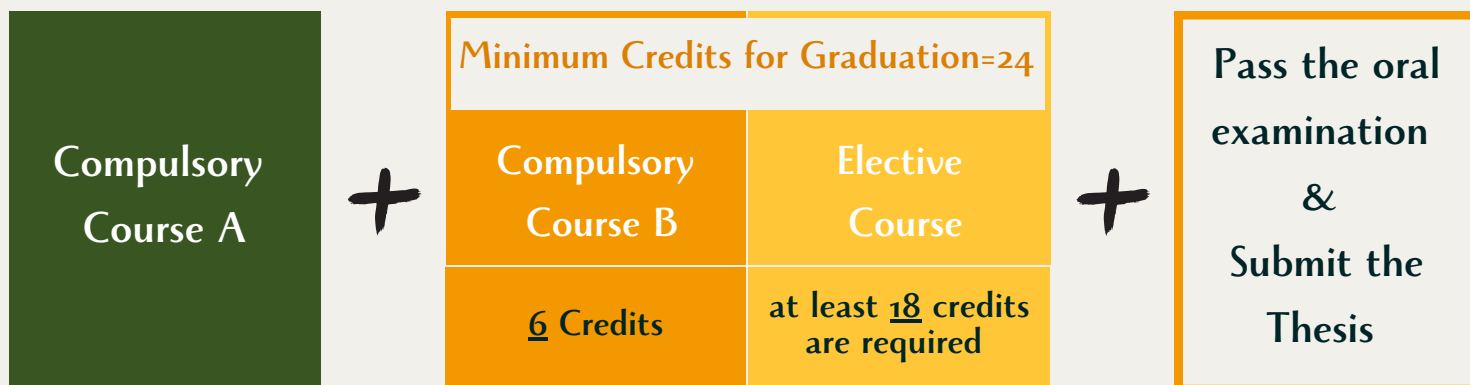
Geohazards Mechanism
and Mitigation

Rainfall-runoff Processes
and Modeling

Emergency Water Supply
and Safety



Curriculum List of MS Program in Disaster Risk Reduction and Resilience (MDR³)



*Note: If you wish to count courses offered by other departments toward your graduation credits, please complete and submit the required [form](#) to the office. Note that the MDR³ program will recognize a maximum of 6 credits from these courses.

Compulsory Course A	Credits	Years	Other
<u>Seminar</u> 專題討論	2	First Year	Credits earned from <i>Seminar and Thesis</i> are not counted in the required credits
<u>Thesis (M. S.)</u> 碩士論文	0	Second Year	

Compulsory Course B	Credits	semester
<u>Impact of Climate Change on Geological Carbon and Water Cycle</u> 氣候變遷對地質探還和水循環的影響	3	Fall semester
<u>Geoinformatics and Risk Assessment</u> 空間資訊與風險評估	3	Spring semester

Elective Course	Credits	semester
<u>Natural Hazard Damage Assessment and Economic Analysis</u> 自然災害損害評估和經濟分析	3	Fall semester
<u>Reliability Analysis for Disaster Prevention</u> 可靠度防災分析	3	Fall semester
<u>Geohazards Mechanism and Mitigation</u> 大地災害機制與防治	3	Fall semester
Green Infrastructure Planning for Climate Change Adaptation 綠基盤調適規劃	3	Fall semester
Basics of Research Design and Case Study 研究設計與個案研究基礎	3	Fall semester
<u>Environmental Planning for Resilience</u> 環境規劃與韌性	3	Spring semester
<u>Modern Geospatial Techniques and Disaster Observations</u> 現代空間資訊技術與災害觀測	3	Spring semester
<u>Hydrologic modeling and application</u> 水文模擬與應用	3	Spring semester
<u>Sustainable Water Supply</u> 永續給水	3	Spring semester