UCL IRDR Programme Requirements

All the IRDR postgraduate programmes are modular and consist of a required number of credits. Most modules are 15 credits while independent projects are worth more credits. Note a full-time student must complete all their required credits within one year, whereas a part-time student may split them between their study years.

The number of credits required depends on the type of programme:

- **MRes** 180 credits
- **MSc** 180 credits
- **PGDiploma** 120 credits
- **PGCert** 60 credits

For IRDR students, we guarantee spaces on all compulsory modules and on IRDR modules. Spaces on non-IRDR modules may be limited.

For details about individual modules, please see the UCL module catalogue: [https://www.ucl.ac.uk/module-catalogue](https://www.ucl.ac.uk/module-catalogue)
Risk and Disaster Reduction

MRes Risk and Disaster Reduction
2 core modules + 2 skills modules + MRes Independent Project + 1 optional module

PGCert Risk and Disaster Reduction
4 optional modules
Select any 4 modules from among the core modules, skills modules and optional modules

- **Core Modules (2 x 15 credits each)**
  - IRDR0002 Fundamentals of Emergency and Crisis Planning and Management
  - IRDR0015 Integrating Science into Risk and Disaster Reduction

- **Skills Modules (2 x 15 credits each)**
  - IRDR0004 Data Analysis and Interpretation
  - IRDR0005 Practice and Appraisal of Research

- **Independent Project (1 x 105 credits)**
  - IRDR0014 MRes Risk and Disaster Reduction Project

- **Optional Module (1 x 15 credits each)**
  - IRDR0001 Natural and Anthropogenic Hazards and Vulnerability
  - IRDR0003 Advanced Emergency and Crisis Planning and Management
  - IRDR0006 Conflict, Humanitarianism and Disaster Risk Reduction
  - IRDR0007 Space Weather and Technological Failures
  - IRDR0008 Catastrophe Risk Modelling
  - IRDR0009 Digital Public Health: Epidemics and Emergencies in the era of Big Data
  - IRDR0010 Risk Analysis for Disaster Science
  - IRDR0016 Gender, Disaster and Conflict
  - IRDR0017 Business continuity management and organizational resilience
Part Time Requirements:

- IRDR0005 must be taken in Year 1
- Between 1 and 3 modules from the compulsory IRDR0002, IRDR0004 and IRDR0015, must be taken in Year 1, the remaining 1 or 2 in Year 2
- The optional module can be taken in either year
- It is recommended to take IRDR0004 in year 1 – this should be taken prior to IRDR0007 or IRDR0010 if either of these optional modules are chosen
- It is recommended to take IRDR0002 before IRDR0003 if IRDR0003 is selected as an optional module
- It is recommended to register for the Independent Project in Year 2, even though work can commence for this in the first year.
Risk, Disaster and Resilience

MSc Risk, Disaster and Resilience
4 core modules + 2 skills modules + 2 optional modules + MSc Independent Project

PGDip Risk, Disaster and Resilience
4 core modules + 2 skills modules + 2 optional modules

MSc Risk, Disaster and Resilience – Management Pathway
4 core modules + 2 skills modules + 2 management pathway optional modules + MSc Independent Project

PGDip Risk, Disaster and Resilience – Management Pathway
4 core modules + 2 skills modules + 2 management pathways optional modules

- Core Modules (4 x 15 credits each)
  IRDR0001  Natural and Anthropogenic Hazards and Vulnerability
  IRDR0002  Fundamentals of Emergency and Crisis Planning and Management
  IRDR0003  Advanced Emergency and Crisis Planning and Management
  IRDR0015  Integrating Science into Risk and Disaster Reduction

- Skills Modules (2 x 15 credits each)
  IRDR0004  Data Analysis and Interpretation
  IRDR0005  Practice and Appraisal of Research

- Independent Project (1 x 60 credits)
  IRDR0012  Risk, Disaster and Resilience MSc Independent Project

- Optional Modules (2 x 15 credits each)
  IRDR0006  Conflict, Humanitarianism and Disaster Risk Reduction
  IRDR0007  Space Weather and Technological Failures
  IRDR0008  Catastrophe Risk Modelling
  IRDR0009  Digital Public Health: Epidemics and Emergencies in the era of Big Data
  IRDR0010  Risk Analysis for Disaster Science
IRDR0016 Gender, Disaster and Conflict
IRDR0017 Business continuity management and organizational resilience
DEVP0005 Disaster Risk Reduction in Cities (DPU)
HPSC0093 Science Policy in an Era of Risk and Uncertainty (STEaPP)
SECU0035 Perspectives on Terrorism (Security and Crime Science)

- **Management Pathway Optional Modules (2 x 15 credits each)**
  IRDR0017 Business continuity management and organizational resilience
  MSIN0053 Mastering Entrepreneurship (School of Management)
  MSIN0071 Decision and Risk Analysis (School of Management)
  MSIN0074 Network Analysis (School of Management)
  MSIN0079 Influence and Negotiations (School of Management)
  MSIN0144 Entrepreneurship: Theory and Practice (School of Management)
  MSIN0147 Strategic Project Management (School of Management)

**Part Time Requirements:**
- IRDR0005 must be taken in Year 1
- Between 3 and 5 modules from the compulsory IRDR0001, IRDR0002, IRDR0004, IRDR0005 and IRDR0015 must be taken in Year 1, the remaining 0, 1 or 2 in Year 2
- Between 0 and 2 of the optional modules must be taken in Year 1, with the remaining 0, 1 or 2 in Year 2 (so that over 2 years you take 2 optional modules)
- It is recommended to register for the Independent Project in Year 2
- It is recommended to take IRDR0002 before IRDR0003
Risk and Disaster Science

MSc Risk and Disaster Science
3 core modules + 2 skills modules + 3 optional modules + MSc Independent Project

PGDip Risk and Disaster Science
3 core modules + 2 skills modules + 3 optional modules

MSc Risk and Disaster Science – Space Risks pathway
3 core modules + 2 skills modules + 2/3 space risks optional modules + 0/1 optional module + MSc Independent Project

PGDip Risk and Disaster Science – Space Risks pathway
3 core modules + 2 skills modules + 2/3 space risks optional modules + 0/1 optional module

- **Core Modules (3 x 15 credits each)**
  - IRDR0002  Fundamentals of Emergency and Crisis Planning and Management
  - IRDR0010  Risk Analysis for Disaster Science
  - IRDR0015  Integrating Science into Risk and Disaster Reduction

- **Skills Modules (2 x 15 credits each)**
  - IRDR0004  Data Analysis and Interpretation
  - IRDR0005  Practice and Appraisal of Research

- **Independent Project (1 x 60 credits)**
  - IRDR0012  Risk, Disaster and Resilience MSc Independent Project

- **Optional Modules (3* x 15 credits each, *or 0/1 for space risks pathway)**
  - IRDR0001  Natural and Anthropogenic Hazards and Vulnerability
  - IRDR0003  Advanced Emergency and Crisis Planning and Management
  - IRDR0006  Conflict, Humanitarianism and Disaster Risk Reduction
  - IRDR0007  Space Weather and Technological Failures
  - IRDR0008  Catastrophe Risk Modelling
IRDR0009  Digital Public Health: Epidemics and Emergencies in the era of Big Data
IRDR0016  Gender, Disaster and Conflict
IRDR0017  Business continuity management and organizational resilience
STAT0038  Decision and Risk (Statistics)

- **Space Risks Optional Modules (select 2 or 3 x 15 credits each)**
  - IRDR0007  Space Weather and Technological Failures
  - SPCE0004  Space Instrumentation and Applications
  - SPCE0007  Spacecraft Design – Electronic Subsystems
  - SPCE0008  Mechanical Design of Spacecraft
  - SPCE0015  Space Science, Environment and Satellite Missions
  - SPCE0016  Space Systems Engineering
  - SPCE0017  Space Data Systems and Processing

**Part Time Requirements:**
- IRDR0005 must be taken in Year 1
- Between 2 and 4 modules from the compulsory IRDR0003, IRDR0004, IRDR0010 and IRDR0015, must be taken in Year 1, the remaining 0, 1 or 2 in Year 2
- Between 0 and 3 of the optional modules must be taken in Year 1, with the remaining 0, 1, 2 or 3 in Year 2 (so that over 2 years you take 2 optional modules)
- At least 4 taught modules must be taken in year 1.
- It is recommended to take IRDR0004 in year 1.
- It is recommended to register for the Independent Project in Year 2
- It is recommended to take IRDR0002 before IRDR0003 if you select IRDR0002 as an optional module