

# What is IRE Program?

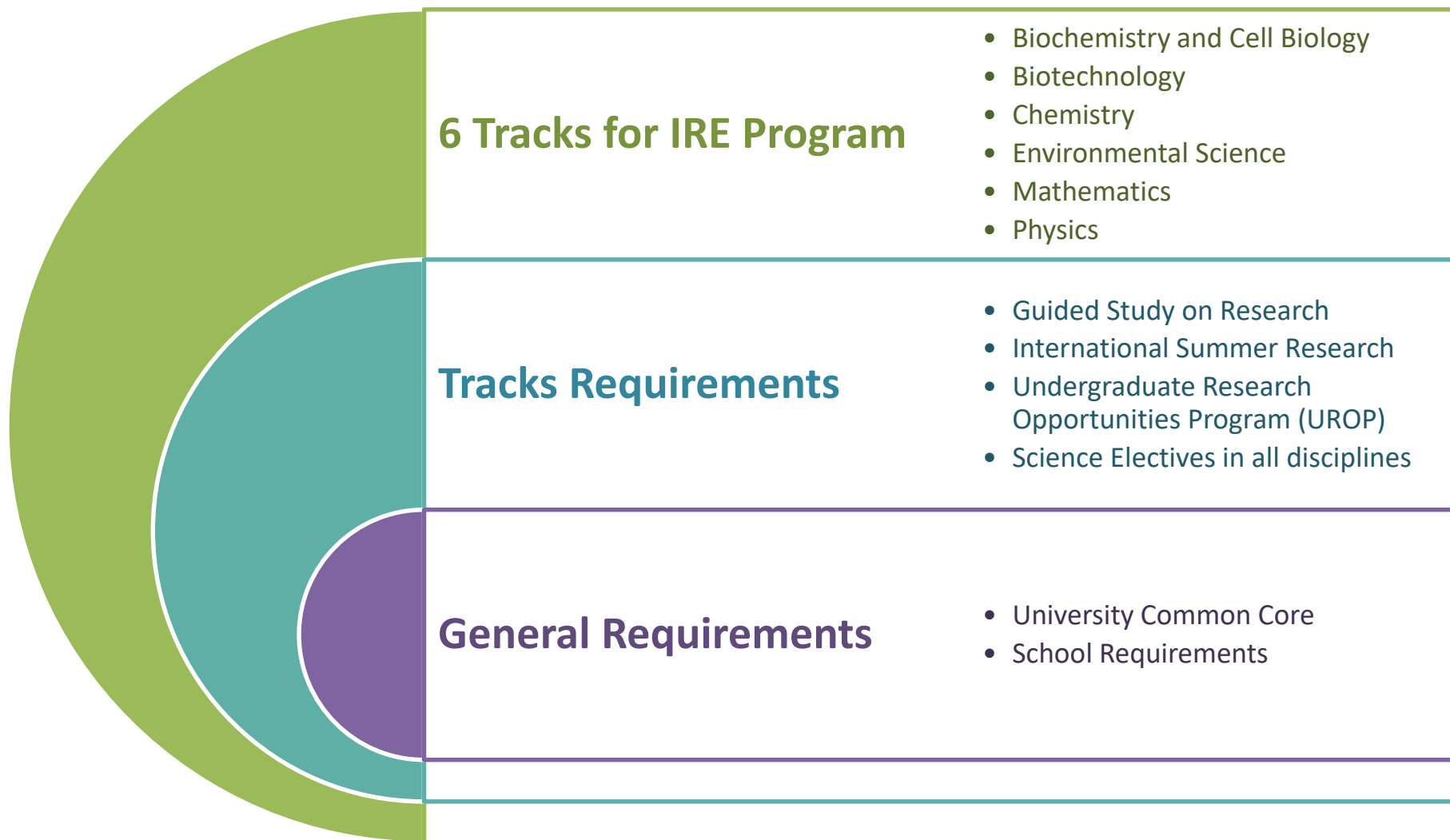
- An “*Elite Program*” launched in 2013 tailor-made for students with particular interest in pursuing *research career* in science
- It offers outstanding science students an *early opportunities* to nurture their research abilities by participating in *international research*
- IRE Program is an independent and separate program choice
  - **JUPAS Program Code: JS5101**
- Intake quota: **20** per year
- Students can apply for IRE Program through:
  - Direct program choice in JUPAS or direct entry; OR
  - Transfer from the regular Science Program (JS5100) to the IRE Program after the first year of study

# Why choose IRE Program?

- The program is built on the premise that *early international exposure* is highly beneficial for the *success in a research career*
- HKUST is a *research-oriented university*, which is well-known for its excellence in research
- We have a *wide international connection* for offering students research opportunities in foreign universities
- Usually, it takes around 10 years to develop an academic research career and an *internationally recognized research work* is a “*must*” for a *good faculty job* nowadays



# IRE Program Structure



# Characteristics of IRE Program

- **Free choice of SIX Majors** offered by the School of Science
- **Individualized Research Guidance and Mentoring** from experienced Faculty
- **Guaranteed Exchange Opportunity** in a foreign university
- **Early & International Research Opportunity**
  - Undergraduate Research Opportunities Program (UROP)
  - International Summer Research Program  
in collaboration with a foreign university/national laboratory

# A Unique Research-Based Program for Future Scientist

## International Research Enrichment (IRE) Program

- Launched in 2013 designed to prepare outstanding students to pursue a career in Science research
- A separate program choice in JUPAS and direct entry
- Rigorous curriculum as the regular Science programs PLUS –

### Free choice among SIX major programs offered by the School of Science:

- Biochemistry and Cell Biology
- Biotechnology
- Chemistry
- Environmental Science
- Mathematics
- Physics

### Guaranteed with:

- Participation in advanced research projects under the supervision of world-class professors
- Opportunity to meet with Nobel Laureates and renowned scientists
- Exchange opportunity in a renowned foreign university
- Summer research internship opportunity in foreign universities/national laboratories
- Scholarship support for the overseas learning trips

# Admission Requirements for JUPAS–HKDSE Applicants

The University ***general admission requirement***:

- i. 4C + 2X (four core subjects plus two electives), or
- ii. 4C + M1/M2 + 1X (four core subjects with M1/M2 plus one elective)

## Minimum Level Requirement:

Subject	Level
English Language	3
Chinese Language	3
Mathematics (Compulsory Module)	2
Liberal Studies	2
<b>Elective 1 (Science Elective)</b> Must be one of: Biology/ Chemistry/ Physics/ Combined Science/ Integrated Science/ Mathematics (Compulsory Module)* OR M1/M2	3
<b>Elective 2</b> Any one Category A subject OR M1/M2	3

# Admission Requirements for JUPAS–HKDSE Applicants

JUPAS score calculation for **IRE (JS5101)** programs:



**Best 5 subjects with weighting**

**English & M1/M2 x 1.5**

**which include:**

**Subject 1**      **Weighted English Language**

**Subject 2**      **Mathematics subject**  
Mathematics (Compulsory Module) **OR weighted M1/M2**

**Subject 3**      **Science Elective**  
Must be one of:  
Biology/ Chemistry/ Physics/ Combined Science/ Integrated Science/  
Mathematics (Compulsory Module)\*  
**OR weighted M1/M2**

*\* If M1/M2 is counted in Mathematics Subject, Mathematics (Compulsory Module) can be counted as Science Elective.*

**Subject 4 & 5**      **Next best 2 subjects**  
Can be core, **weighted M1/M2** or any Category A subjects

# Admission Requirements for Direct Entry Applicants

- For students with international qualifications:
  - Fulfill the *University General Admission Requirement*, AND
  - MUST have *at least ONE Senior Level subject* from
    - **Biology / Chemistry / Mathematics / Physics**



# Admission Interview

- Interview is a **MUST** for IRE program
- **IRE JUPAS admission interview** will be scheduled in:
  - **June 2017**; AND
  - after the announcement of HKDSE result in **July 2017**
- **IRE admission interview for direct entry applicants** will be held on an irregular basis.

# Transfer to IRE Program

- Students from the **regular Science Program (JS5100)** can apply for transfer to the IRE Program after the first year of study, if they have:
  - I. Outstanding academic performance;
  - II. Pass the interview for program transfer;
  - III. Take (sit-in) *SCIE 1500 Guided Study on Research I* in Spring Term
  
- Limited quota and on a competitive basis