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Experiential Learning

Faculty of Science
The University of Hong Kong

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Faculty-based Experiential Learning and Outside Classroom Learning Experience

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Experiential Learning Activities

- To complement and enhance the curriculum so as to give students an all-rounded and holistic education;
- To require students to tackle real-life issues and problems by drawing on theoretical knowledge that they have learnt in formal curriculum;
- To address the limitations in lecture and classroom-based learning.

Experiential Learning Activities (Con't)

- Project-based Learning
  - Undergraduate Research Opportunities
    - Final Year Project
    - Directed Studies
    - Summer Research Fellowship (SRF) Scheme
    - Overseas Research Fellowship (ORF) Scheme
    - Undergraduate Research Fellowship Programme (URFP)
    - Undergraduate Research Colloquium for Science Students
  - Seminar Course
  - Capstone Experience
- Field Studies
- Discipline Internship and Professional Preparation Programme
- Student Exchange Programme / Visiting Studies / Summer Schools offered by Faculty/School/Departments

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Experiential Learning Activities (Con't)

One Mainland China, One Overseas Learning Opportunity

- To promote global citizenship and competitiveness, students are strongly encouraged to participate in at least one mainland China and one overseas learning opportunity, with duration of **no less than three weeks** of which at least two weeks must be outside Hong Kong, in their undergraduate study

Stay tuned for the Opportunities at:

SHKU Science

International Affairs Office
Admissions and Academic Liaison Section, The Registry

cedars
Centre of Development and Resources for Students
The University of Hong Kong
香港大學學生發展及資源中心

HKU Horizons

AAO
Academic Advising Office

COMMONCORE
THE UNIVERSITY OF HONG KONG

HKU Summer Institute

香港大學中國事務處
China Affairs Office, The University of Hong Kong

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Study Abroad Opportunities

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Faculty Exchange Programme

Host Institution:

- The University of Sydney, Australia
- University of Prince Edward Island, Canada
- Technical University of Denmark, Denmark
- University of Macau, Macau
- National Chiao Tung University, Taiwan
- National Taiwan University, Taiwan

https://www.scifac.hku.hk/current/ug/el/exchange/faculty-exchange-programme

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Departmental Exchange Programme

Host Institution:

- University of Eastern Finland, Finland
- National School for Statistics and Information Analysis, France
- National University of Singapore, Singapore

https://www.scifac.hku.hk/current/ug/el/exchange/departmental-exchange-programme-under-faculty-of-science

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Project-based Learning

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Undergraduate Research Opportunities:

Summer Research Fellowship (SRF) / Overseas Research Fellowship (ORF)

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SRF/ ORF

Background & Objectives

- Launched in 2007
- Enable students to attempt **specific research topics** that cater to their individual interests and abilities
- Encourage students **taking initiative** and a **more active role** in their own learning
- Provide a platform for students to **integrate theory and practice**, and to **understand limitations of their current knowledge**
- Engage students in research of their majored science discipline

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SRF/ ORF (Con't)

Eligibility

- BSc, BSc(ActuarSc) or BASc(AppliedAI) in non-final year of study
- Recommendation of a prospective supervisor

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SRF vs ORF

	SRF	ORF
Location	Within the Science School/Departments or the School of Biomedical Sciences	Overseas institutions
Subsidy	A stipend of HK$16,000	A stipend of HK$16,000 plus airfare (on a reimbursement basis; and the maximum subsidy is HK$12,000)

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SRF vs ORF (Con't)

	SRF	ORF
Requirements	1. Complete the research project (duration is at least 2 months) under the supervision of research supervisors (both internal and external supervisors are required for ORF Scheme) 2. Submit a research synopsis of 500 – 1,000 words on your project, a short passage of programme sharing, and a poster in September 3. Participate in Poster Presentation in October 4. Attend Research Colloquium in October/November; five to six best poster presenters will give an oral presentation in this Research Colloquium	

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SRF/ ORF (Con't)

Application Procedures

1. Search for your interest area
2. Consult the teachers in your interest field about your research plan
   - Approach the teachers directly
   - Through your home Schools/Departments or teachers
   - Read their research publications beforehand
3. Fill in the application form
4. Submit your **application form** with a **recommendation letter** from your prospective supervisor and a **research proposal** (not more than 500 words on a A4-size paper) to the Faculty of Science Office before the stipulated deadline

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SRF/ ORF (Con't)

Selection Criteria

- Quality of the research proposal
- Recommendation of the prospective supervisor
- Interview performance
- Academic merits

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SRF/ ORF (Con't)

Recognition

- Recorded in the academic transcript
- Certificate of completion
- Awards:
  - Best Poster Presenters (for ***Poster Presentation***) – *5 to 6 winners*
  - Best Colloquium Presenter (for ***Research Colloquium***) – *1 winner*

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Undergraduate Research Opportunities:

Project Courses / Directed Studies Courses

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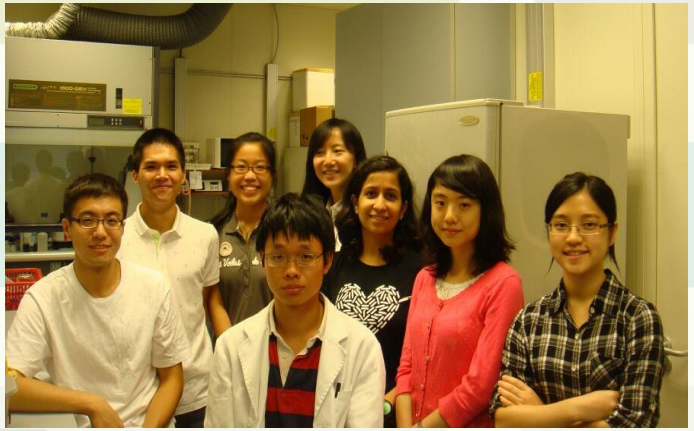
Project Course/ Directed Studies Course

Objectives

PROJECT COURSES (12 credits each; year long)

- To provide **experience of research** to students through planning and carrying out a project under the supervision of an academic staff
- To enhance student's knowledge, ability and interest in **advanced studies in the discipline**



DIRECTED STUDIES COURSES (6 credits each; semester long)

- To enhance student's knowledge on **a particular topic in the discipline** under the supervision of an academic staff

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Project Course/ Directed Studies Course (Con't)

List of Project Courses & Directed Studies Courses

Project Courses	Directed Studies Courses
BIOC4999 Biochemistry Project	BIOC3999 Directed Studies in Biochemistry
BIOL4991 Ecology & Biodiversity Project	BIOL3991 Directed Studies in Ecology & Biodiversity
BIOL4992 Food & Nutritional Science Project	BIOL3992 Directed Studies in Food & Nutritional Science
BIOL4993 Molecular Biology & Biotechnology Project	BIOL3993 Directed Studies in Molecular Biology & Biotechnology
BIOL4994 Biological Sciences Project	BIOL3994 Directed Studies in Biological Sciences
CHEM4999 Chemistry Project	CHEM3999 Directed Studies in Chemistry
EASC4999 Earth Sciences Project	EASC3999 Directed Studies in Earth Sciences
ENVS4999 Environmental Science Project	ENVS3999 Directed Studies in Environmental Science
MATH4999 Mathematics Project	MATH3999 Directed Studies in Mathematics
PHYS4999 Physics Project	PHYS3999 Directed Studies in Physics
STAT4798 Statistics and Actuarial Science Project	STAT3799 Directed Studies in Statistics
STAT4799 Statistics Project	

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Undergraduate Research Opportunities:

UG Research Colloquium for Science Students

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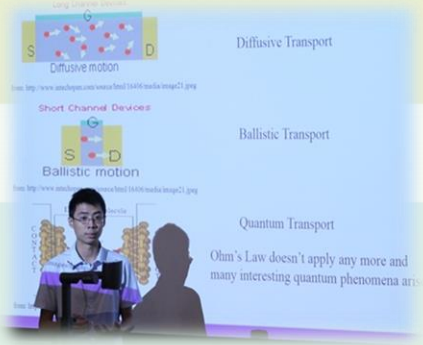
UG Research Colloquium for Science Students

Background & Objectives

- Launched in 2007
- To provide a platform for Science undergraduates taking project or directed studies courses to **share their research findings** with others, and to **gain experience in communicating scientific knowledge in a professional setting**
- To demonstrate project-based learning to other Science undergraduate students of junior years and encourage them to enroll in projects in their subsequent years of study



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UG Research Colloquium for Science Students (Con't)

Poster Presentation

- Students are **nominated** by the Schools/Departments.
- Each participant is required to submit a **poster**, a **written report/synopsis** of his/her project, and **be present in the Poster Presentation** to share his/her research findings.
- The best two presenters in each group will be selected to do a PowerPoint presentation in the **Research Colloquium**.
  - Group A - Quantitative Reasoning
  - Group B - The Physical World
  - Group C - Life & Living

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UG Research Colloquium for Science Students (Con't)

Research Colloquium

- The six best presenters in the Poster Presentation will give **a 10-minute presentation** on their research findings and a prize will be awarded to the best participant.
- All nominated students of the activity are required to attend the Research Colloquium and ask questions to the speakers.

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Field Studies

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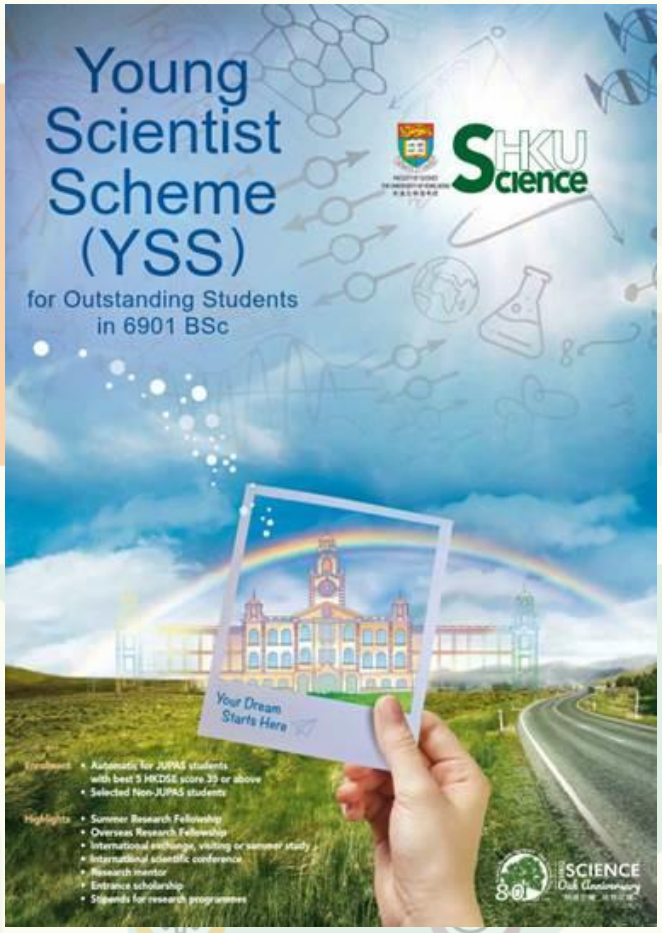
Young Scientist Scheme (YSS)



Providing outstanding undergraduate students with ample early research experiences

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Other Opportunities

- Career Success Programme
- Internships
- Overseas / Mainland Experiential Learning Funding from the Faculty of Science
- Science Student Ambassadors Scheme
- Student Societies
- Globalink Research Internship
- Entrepreneurship Seminar Series