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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 classroombased learning.

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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

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- Discipline Internship
- Student Exchange Programme / Visiting Studies / Summer Schools offered by

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Faculty/School/Departments



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 <u>no less than three weeks</u> of which at least two weeks must be outside Hong Kong, in their undergraduate study

Stay tuned for the **Opportunities at:**





International Affairs Office Admissions and Academic Liaison Section, The Registry







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



HKUHorizons

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HKU Summer Institute





THE UNIVERSITY OF HONG KONG

ACADEMIC ADVISING &

SCHOLARSHIPS OFFICE





Study Abroad Opportunities





Faculty Exchange Programme

Host Institution:

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- The University of Sydney, Australia
- Technical University of Denmark, Denmark
- Technical University of Munich, Germany
- 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

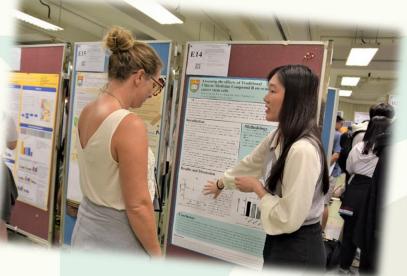
https://www.scifac.hku.hk/current/ug/el/exchange/departmental-exchangeprogramme-under-faculty-of-science





Project-based Learning







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Undergraduate Research Opportunities:

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

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SRF/ ORF

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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

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• Engage students in research of their majored science discipline







SRF/ ORF (Con't) Eligibility

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





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 (80% of the actual airfare and capped at HK\$12,000 in maximum)

Remarks:

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* Successful applicants are NOT allowed to receive sponsorship from other funding sources for the same research project

















SRF vs ORF (Con't)

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	SRF	ORF
Requirements	quirements 1. Complete the research project (duration is at least 2 months) the supervision of research supervisors (both external and in supervisors are required for the ORF Scheme)	
		500 – 1,000 words on your project, a haring, and a poster in September
	3. Participate in Poster Presentat	ion in October (for all participants)
	•	October/November (five to six best oral presentation in the Research
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SRF/ ORF (Con't)

Application Procedures

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- 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





SRF/ ORF (Con't)

Recognition

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





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 e

(6 credits each; semester long)

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







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
ENTR4999 Entrepreneurship Project	APAI3799 Directed Studies in Applied AI
APAI4798 Applied AI Project	STAT3799 Directed Studies in Statistics
STAT4798 Statistics and Actuarial Science Project	
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

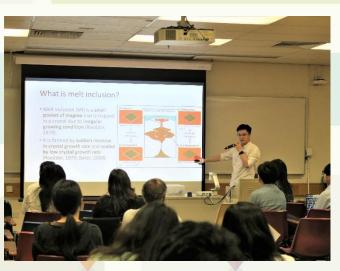
Background & Objectives

Launched in 2007

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- 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







UG Research Colloquium for Science Students (Con't)

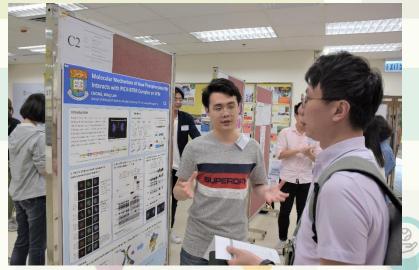
Poster Presentation

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- 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.

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- Group A Quantitative Reasoning
- Group B The Physical World
- Group C Life & Living





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.







Field Studies











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Young Scientist Scheme (YSS)

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Providing outstanding undergraduate students with ample early research experiences

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for Outstanding Students in 6901 Bachelor of Science & 6688 Science Master Class HKU-Cambridge Undergraduate Recruitment Scheme (Natural Sciences)



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Entrance • Automatic for JUPAS 6901 students with best 5 HKDSE score 35 or above and 6688 students • Selected Non-JUPAS students

 lighlights
 Summer Research Fellowship

 • Overseas Research Fellowship
 International exchange, visiting or summer stud

 • International scientific conference
 Research mentor

 • Entrance scholarship
 Stipends for research programmes



Other Opportunities

OTHER OPPORTUNITIES



Professional Preparation Programme for Science Students



Internships



Overseas / Mainland Experiential Learning Funding from the Faculty of Science



Science Student Ambassadors Scheme

Globalink Research

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Internship





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Entrepreneurship Seminar Series