Discovery-enriched Curriculum

Academic Honesty

Co-curricular Activities
The Four ‘I’s

- Internationalization
- Interdisciplinary
- Professional Education
- Interpersonal Skills
- Innovation
Discovery-enriched Curriculum (DEC)

- Discovery, Innovation, Creativity
- Comprehensive educational experience
- Intellectual curiosity and lifelong learning

Aim HIGH! Think BIG! Try HARD!

From July 2017 to June 2018, there are 27 CityU students involved in 23 successful patent applications submitted through the CityU’s Knowledge Transfer Office.
Pursue a Second Major / a Minor

Interdisciplinary studies expose students to varied disciplines, and to increase the value and breadth of their undergraduate education.

Check the full list of majors/minors and their curriculum requirements at ARRO’s website http://www.cityu.edu.hk/catalogue/ug/201819/catalogue/catalogue_UC.htm?page=B/Introduction.htm
## Examples of Major & Minor Pairings

<table>
<thead>
<tr>
<th>Major</th>
<th>Minor</th>
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<tbody>
<tr>
<td>Chemistry</td>
<td>Applied Psychology</td>
</tr>
<tr>
<td>Computing Mathematics</td>
<td>Finance</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Global Business Systems Management</td>
</tr>
<tr>
<td>Information Engineering</td>
<td>Korean Studies</td>
</tr>
<tr>
<td>Surveying</td>
<td>Business Law</td>
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Academic Honesty
Academic Dishonesty

Academic dishonesty is a serious offence. It can lead to disciplinary action with a penalty including expulsion from the University and debarment from re-admission.
Examples of Academic Dishonesty

- **Plagiarism** e.g. failure to properly acknowledge the use of another person’s work; submission of work that is not the student’s own work

- **Misrepresentation** e.g. submit a piece of group work as the student’s own individual work
Examples of Academic Dishonesty

- **Collusion** i.e. let another person copy one’s work
- **Use of unauthorized material**
- **Use of fabricated data**
- **Use of data copied or obtained by unfair means**
- **Impersonating another student at a test / exam**
University Requirement

All CityU students are required to:

(1) complete an online tutorial
(2) take an online quiz
(3) fill out an online declaration

Attend relevant Library’s Information Skills Workshops:

- Citation Made Easy: Using EndNote 27 Sept / 25 Oct / 31 Oct
- Citing Sources and Preventing Plagiarism 4 Oct

**Deadline: 30 Nov 2018**
Student Enrichment Activities

• Student Exchange Programme
• Internship Schemes
• Cultural and Language Immersion Scheme (CALIS)
• Joint Bachelor's Degree Program between CityU and Columbia University
Exchange / Internship
Student Exchange Programme

- A unique educational experience
- One semester or summer term study at CityU’s partner institution
- Earn and transfer the credits back to CityU
- Appreciate new cultures and values
Partner Institutions

CityU has over 320 exchange partners with over 1,000 exchange places for students
Outgoing Students Distribution 2017/18

• 300 students have gone abroad under Student Exchange Programme 2017/18

- Europe: 45%
- Mainland: 13%
- Asia: 29%
- North America: 8%
- Australia & New Zealand: 5%
Internship Schemes

- Short term (Summer) or full final year
- Apply classroom learning to real life
- Gain solid working experience
- Establish network before graduation
- Prepare for the job hunt / research studies
Internship Schemes (Con’t)

- Summer of Year 3
  - Industrial Attachment Scheme
  - Overseas Internship Scheme
- Final Year
  - Cooperative Education Scheme
Partner companies/ institutions

Strong linkage with over 400 companies & overseas institutions
Cultural and Language Immersion Scheme (CALIS)

- 4-week summer programme
- Experience the culture of England
- Improve English proficiency
- Attain a high IELTS score
- Welcome Year 1 students!
Cultural and Language Immersion Scheme (CALIS)

- Homestay
- Cultural & sports activities
- Industrial visits & excursions
- Community service
- English classes in local universities
The Joint Bachelor's Degree Program between CityU and ColumbiaU

Eligible majors in our College:

- Applied Physics
- Computer Science
- Computing Mathematics

https://gs.columbia.edu/cityu-hk/
Where are Program Alumni now?

- Working at **Google** in California as a Software Engineer after completing a master’s degree in Computer Science at Columbia University
- Studying a **PhD** in Biostatistics at the University of Texas
- Working at **DIYI Intelligence**, a start-up in Shanghai providing O2O service to college students
- Working at **Morgan Stanley New York** as a Trading Analyst
- Working at **JP Morgan New York** as a Trading Analyst
- Working at **Memorial Sloan Kettering Cancer Center, New York** as a research technician
Plan now for your fruitful university life!
Grand Challenges Scholars Program (GCSP)
College of Science and Engineering
Orientation Day 2018
Overview of GCSP (NAE)

• In 2008, the US National Academy of Engineering (NAE) identified 14 Grand Challenges for Engineering in 21st century.

• Grand challenges are a call to action and serve as a focal point for society’s attention to opportunities and challenges affecting our quality of life.

• To prepare students to solve the grand challenges, NAE initiated the Grand Challenge Scholars Program (GCSP). It is a combined curricular and extra-curricular program with five components.
1. Make solar energy economical
2. Provide energy from fusion
3. Develop carbon sequestration methods
4. Manage the nitrogen cycle
5. Provide access to clean water

6. Advance health informatics
7. Engineer better medicines

8. Prevent nuclear terror
9. Secure cyberspace
10. Restore and improve urban infrastructure

11. Reverse engineer the brain
12. Enhance virtual reality
13. Advance personalized learning
14. Engineer the tools of scientific discovery
## 5 Curricular Components

<table>
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<tr>
<th>Component</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Research Experience</strong></td>
<td>• Conduct research on a topic related to one of the Grand Challenges</td>
</tr>
<tr>
<td><strong>Interdisciplinary Curriculum</strong></td>
<td>• Enroll on courses in other fields, (e.g. business, ethics, arts, human behavior, etc.)</td>
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<tr>
<td><strong>Entrepreneurship</strong></td>
<td>• Develop market ventures that scale to global solutions in the public interest</td>
</tr>
<tr>
<td><strong>Global Dimension</strong></td>
<td>• Develop students’ global perspective</td>
</tr>
<tr>
<td></td>
<td>• Lead innovation in a global economy</td>
</tr>
<tr>
<td><strong>Service Learning</strong></td>
<td>• Develop and deepen students’ social consciousness</td>
</tr>
<tr>
<td></td>
<td>• Bring technical expertise to bear on societal problems</td>
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</table>
- A Study of Wake Aerodynamics of Vertical Axis Wind Turbine through Wind Tunnel Tests
- Optimization Design of Vertical Axis Wind Turbine through Computational Fluid Dynamics (CFD) Analysis
- A Study of the Application of Unmanned Aerial Vehicle in Structure Inspection
- Integration of BIM and Sensor Technologies to Provide Visual Monitoring in Facility Maintenance Management
- Seism Resistance Investigation of Sizeable Underground Structure

- Development of Inorganic Perovkite Solar Cells with Superb Stability without Lead
- Boosting Economic Growth in Africa with Solar Energy System

- Develop of Biosensors for Monitoring Autophagy

- Finding the Influential Spreaders in Social Network
- Rumor Centrality
GCSP topics (cont’d)

Learning Advance Personalized
- Touch to Read – A Reading Device for the Blind

Provide Access to Clean Water
- Portable Water Purifier

Engineer Better Medicines
- Engineer Better Medicine: A Reactive Oxygen Species Dependent Prodrug

Restore and Improve Urban Infrastructure + Provide Access to Clean Water
- Proof of Concept of 4D Printed Carbon Fiber Pipes with Spiral Flow Pattern and Adaptable Flow Rate or Capacity Capability
CityU representatives at the Poster Session

Department:  
Mechanical and Biomedical Engineering (MBE)

Project title:  
Micro Scent Generation on Demand for Immersive Smell and Emotion in Virtual Reality Systems

Student:  
Muhammad Shahzain Riaz, LAW Junhui, James Utama Surjadi

Supervisor:  
Prof. Wen Jung Li, Dr CHAN Ho Yin
Who can apply?

(1) All College of Science and Engineering students with CGPA 2.70 or above
   • A lower threshold suggested by NAE to recruit more students with potential to join the program
   • CGPA of GCSP students:
     - Average: 3.59
     - Highest: 3.96

(2) Preferably Year 1 and Year 2 students
GCSP graduates Interview

Grand Challenges Scholars Program (GCSP)
Collaboration with Engineer Without Borders (EWB) - Myanmar Trip, June 2018
For more details, visit our website:
THE END