NUS SoC UROP Briefing

AY 2014/2015 Sem I

Presented by Kan Min-Yen
Assisted by Mrs Kwek Wong Kay
(Revised 15 Oct 2014)
Warning

Make sure you are viewing the correct slide deck that is applicable to the semester for which you are considering starting UROP, as requirements may change.

This deck is for AY 14/15 Sem I, presented on 15 Oct 2014, for prospective students choosing UROP to start in AY 14/15 Sem II.

Updates from the previous semester are noted with underlines.
Objective

Allows undergraduates to participate in active research and to experience first hand the challenges and exhilaration of research, discovery and invention.

Typically, research involves these activities:

- Problem formulation;
- Literature survey;
- Attending research seminars;
- Proposal and implementation of solutions and their evaluation; and
- Documentation and presentation of results.
UROP @ SoC

Modules

● CP3208: Undergraduate Research in Computing I
● CP3209: Undergraduate Research in Computing II

Prerequisites

● Completed at least 60MC
● Approval of CS/IS department
● Minimum CAP of 3.8

Two Options

● 2 semester UROP: CP3208 & CP3209 (8MC)
● 1 semester UROP: CP3208 (4MC)
  ○ Can be done during special term
  ○ Can continue with CP4101 (Final Year Project)
Evaluation - CP 3208/9 Track

50% Continuous Assessment (Supervisor)

- 5% Written literature review or tutorial presentation (CP3208, around Week 8)
- 5% Written progress report (CP3208 end of semester)
- 10% Oral presentation of progress to supervisor/research group (CP3209, around Week 8)
- 30% Understanding, formulation and execution, as demonstrated throughout the project and in the progress/final reports (CP3209, end of semester)

50% Final report and oral presentation
- Two independent examiners

In this option, you get the same grade for both modules at the end of the entire project; after the end of CP 3208, you will receive an IP grade (“in progress”) that will be changed to your actual grade after the final report in CP 3209.
Evaluation - CP 3208 Track

50% Continuous Assessment (Supervisor)
- 10% Written literature review or tutorial presentation (Around Week 8)
- 40% Final Report and Overall Performance (40%) (End of semester)

50% Final report and oral presentation
- Two independent examiners
Schedule (Sem I AY14/15)

16 October 2014: UROP application open
- Put in your application form to the Undergraduate Office (Mrs Kwek)
- You will be informed when it is approved
- Once approved, get the project assignment form signed by your supervisor and hand in to Mrs Kwek

7 November 2014: UROP application close
Finding Projects

Approach the faculty!

- Browse UROP project list at [https://mysoc.nus.edu.sg/~projadm/](https://mysoc.nus.edu.sg/~projadm/)
- You can also look through FYP projects and ask the faculty to propose something similar.
- Talk with any faculty that whose area is of interest to you.

You can also propose your own project. You will still need to find a professor to supervise you.
<table>
<thead>
<tr>
<th>S/N</th>
<th>Proj ID</th>
<th>Title</th>
<th>Supervisor</th>
<th>Category</th>
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<td>1</td>
<td>U024170</td>
<td>Explaining SQL Queries in English</td>
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<td>CP3208 + CP3209</td>
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Support

We provide the following for each UROP student:

- B&W paper quota 50 pages
- Colour paper quota 20 pages
- A1 Poster

In addition, each project is given a budget of $50 for small items (claim through supervisor with receipts)

See [https://docs.comp.nus.edu.sg/node/1732](https://docs.comp.nus.edu.sg/node/1732)
Exemptions

- For **Computer Science programme**, only students in the Turing Programme are allowed to replace CS3201/CS3202 Software Engineering Project or CS3281/CS3282 Thematic Systems Project with UROP CP3208/CP3209, under the restriction that the project contains significant programming content (subject to approval of UROP coordinator).
- For the **Computational Biology programme**, CP3208/CP3209 is allowed to replace up to two level-3 electives under the restriction that the UROP project must in the computational biology area (subject to approval of UROP coordinator).
- For the **Communications and Media programme**, CP3208 and CP3209 is allowed to replace CS4201/CS4202 Interactive Systems Project, CS4203/CS4204 Game Development Project, or CS3281/CS3282 Thematic Systems Project except for students in Concurrent programme with Carnegie Mellon University under the restriction that the project is in the media area (subject to approval of UROP coordinator).

To apply these exemptions to your case, please approach Mrs Kwek in the Undergraduate Office for the relevant waiver forms.
Exemptions 2

- For University Scholars Programme students that matriculated in 2012/2013 only, you may read UROP modules CP3208/CP3209 in place of the two Computer Systems Team Project modules (CS3201/CS3202 or CS3281/CS3282). CP3208/CP3209 are independent study modules (ISMs) and they will also be counted as two of the four Advanced Scholars Modules (8 MCs).

- **N.B.** USP students matriculating 2013/2014 or later cannot apply this rule.


To apply these exemptions to your case, please approach Mrs Kwek in the Undergraduate Office for the relevant waiver forms.
Mr Nguyen Truong Duy

“UROP is an interesting opportunity for undergraduates to extensively explore and gain insight into a particular topic of Computer Science. Doing UROP also helps us to have a rough idea of what research in CS is like, and to improve many skills, such as problem solving, communication and writing”

**Computing Bounds on Quantum Probabilities**
Winner of Outstanding Undergraduate Researcher Prize for AY12-13
Supervisor: Dr Stephanie Wehner
“UROP gives me the opportunity to work on an exciting cutting-edge research project. I really enjoy the meaningful experience working on the project. For those who loves challenges in doing research, UROP is the way to go.”
FAQ and Issues

Q: In CORS, there is a slot for UROP lectures. What is that and what happens if it conflicts with another module?
A: For NUS modules, we sometimes have to create “dummy” modules to allow the timetabling system to mount the course. Don’t worry, there are no UROP lectures. If you find that another course conflicts with it, we can manually register you for UROP (if the UROP application was approved) bypassing CORS; please approach the UROP administrator in the undergraduate office.

Q: Is the UROP graded on the final report that we submit to the digital library at the very end of the UROP, or is it based on the report we handed in for examination? If the reviewer suggests edits then are they compulsory and accounted for in the final grade?
A: Your grade for UROP is partially based on the report that you turn in to the examiners. Unless otherwise communicated to you by your examiners or supervisor, further changes to the thesis for the archival copy in SoC’s digital library are not considered for your grade.
Contact Information

http://www.comp.nus.edu.sg/undergraduates/urop_project.html

Coordinator: A/P KAN Min-Yen
<kanmy@comp.nus.edu.sg>, 05-12, AS6

Administrator: Mrs Kwek Wong Kay
<kwekwk@comp.nus.edu.sg>, UG Office

Thank you!
Reminder: Applications close 7 November