

**RYERSON UNIVERSITY**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**CPS40A, B – Computer Science Thesis**  
**Course Management Form 2016-2017**

This course is offered at the request of eligible students and by arrangement with one of the faculty members acting as thesis advisor.

**Course Description:**

The Department of Computer Science offers a research thesis option, CPS40A, B, to motivate 4<sup>th</sup> year CTRS undergraduate students to work on research/development projects under the supervision of a faculty advisor while receiving academic credit. Students will creatively apply the material, learned in courses during the first 3 years, to a significant project in any area of Computer Science. The thesis can be undertaken individually or in a team of students (pending the approval of the supervisor). Thesis studies are two semesters in duration and **require completion of all 3<sup>rd</sup> year courses and a CGPA of at least 3.0** as well as prior approval from the faculty member.

**Project Proposal:**

A project proposal is considered to be a key component in approval and initiation of the thesis and it must include:

- A description of the problem to be worked on, including motivation, originality and significance;
- A description of the scope of background reading to be carried out;
- A description of the research work to be carried out;
- A description of the expected results of the research;
- The signature of a faculty member, signifying endorsement of the project and willingness to supervise and evaluate it.

Thesis proposals along with the signed Approval Form (below) must be approved no later than **Sept. 16<sup>th</sup>**, otherwise the course will be dropped.

**Course Expectations:**

The main objective of this course is to introduce students to the breadth of tasks involved in independent research including:

- Library work/Literature survey;
- Problem formulation/Definition;
- Experimentation/Simulation/Programming;
- Presentation;
- Scientific writing.

Students work closely with faculty advisors to plan and carry out their projects. Projects span the entire 4<sup>th</sup> year. In particular, students must submit a **project proposal** in September, **monthly reports** (as noted in the Evaluation table) and a comprehensive **written thesis** in April. Students must also present their thesis during a **year-end seminar** for students in this course. Students in this course are required to attend the talks by their CPS040 classmates. Other students and faculty can also attend.

<b>Evaluation:</b>	<b>Deadline:</b>	<b>Weight</b>
Thesis Proposal/Approval	Sept. 16 <sup>th</sup>	10%
Monthly reports Fall Semester	Oct. 30 <sup>st</sup> , Nov. 30 <sup>th</sup>	10%
End of term assessment	First week of Jan.	10%
Monthly reports Winter Semester	Feb. 28 <sup>th</sup> , Mar. 31 <sup>st</sup>	10%
Final submission	during April Exams	50%
Oral presentation	during April Exams	10%

**Important Notes:** (1) Students whose thesis is not acceptable by their supervisors will receive a grade of 'F' for both semesters. (2) The final writeup must be submitted to both the Department Chair and the Supervisor. (3) The Chair or the Chair's designate (other than the supervisor) marks the oral presentation, whereas the supervisor marks all other items of the evaluation.

**THE INFORMATION ON THIS FORM WILL NOT BE ALTERED WITHOUT PRIOR NOTIFICATION AND DISCUSSION WITH THE STUDENT.**

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Approval Form**

<b>Student's Information (Please Print)</b>	
Last Name:	
First Name:	
ID:	Academic year:
Your CGPA:	
Have you completed your 3 <sup>rd</sup> year courses?	
If you are not meeting the minimum requirements, please explain why you think you qualify to do this thesis:	

<b>Faculty Advisor (Please Print)</b>	
Last Name:	
First Name:	
Title of the Proposal:	
Approval Date (no later than end of September):	
Recommendations/Comments:	
<b>Signatures</b>	
Student:	Faculty Advisor:
Date:	Date:

**Important Note: A copy of the Approval is to be submitted to the Department.**