Outline of Directed Reading course (CMPT 894) for __________________ (_____________)  

Name    Stud-No

Title: Software Verification

Objective/Description:
This course explores cutting-edge research results in the area of software verification. Students will read and discuss recent articles on static program analysis, software model checking, test-case generation, randomized testing, and web-service verification. A special focus will be the emerging unification of program analysis and software model checking in practice, and the symbiosis of testing with program analysis. In a semester project, the students will explore current tools that implement the latest research results in this area.

Topics:

- Static program analysis
- Software model checking
- Randomized testing
- Automatic test-case generation
- Web-service verification

Grading:
Reading assignments, presentation, discussion: 40%, project and report: 60%

Textbooks:
No text book readings. Recent research articles will be provided on the course web page.

References/Additional Reading:
None.

Student signature__________________________

Instructor Signature_______________________

Breadth Approval________________________

Grad Director Approval___________________