

Exam type: In person exam – room assignment will be posted on Moodle

Exam location: will be posted on Moodle.

Exam date/time: Please check - <https://www.concordia.ca/ginacody/students/academic-services/graduate.html>

Closed book + closed notes exam

Important: Please make sure to bring your student-id

Exam style

Similar to the assignments (especially 2-3) and midterm

Focus is mostly after midterm, **but slicing, clones will be included** in the final exam

In general, for all the topics:

Challenges/Limitations?

Benefits/advantages

Why?

=> more understanding of the problem domain, **less** memorization (note: this does not mean no memorization!!)

Detailed topics:

Program slicing

Static/Dynamic slicing/backward/forward

- Challenges
- Differences between techniques
- And obviously you have to be able to compute slices.

Impact analysis

- What is it
- Impact analysis at the source code level
- Impact analysis at the requirements level – why

Testing

- Black/white box testing

Regression testing, ripple effect analysis

- What is it and why?
- Test case reduction – techniques

Clones

- Different types
- Being able to identify clones

DevOps

Traceability (in general)– how is it beneficial, what are the challenges, why do we care?

Large language models in software engineering

Software migration

General questions – Software Maintenance and Program Comprehension – challenges/why is needed