CISC 498: Information Technology Project

Some Important Information

2025-26

About the Instructor

Instructor

- o Anwar Hossain, PhD
- Associate Professor, School of Computing, Queen's University
- Contact: 529 Robert Sutherland Hall, ahossain@queensu.ca

• Teaching Assistant

- Fozle Rabbi Shafi
- Graduate Student
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CISC 498

- Capstone course of the Software Design program (SODE)
- Format no lectures, presentations and report only
- Objective
 - Application of software engineering techniques to the development of a substantial software system
 - Communicate with a customer to define and deliver a system that meets the customer's needs
 - Collaborate with colleagues to develop a software system (group work, oral presentation, participation software artifact review meetings)
 - Deliver software requirements specification and design, quality assurance plan, and a working software

Stakeholders

- Coordinator Anwar Hossain (email)
 - o to organize and oversee a number of meetings and presentations
 - assist you in finding a supervisor
 - help you in accessing to the resources you need
 - evaluate your work (together with the customers and supervisors)
- Teaching Assistant Folze Rabbi Shafi (OnQ and email)
 - primary contact person for the submissions
- Group members
 - registered for this course
 - 4-5 members

Stakeholders - contd

Customer

- Suggested a project already
- Meet customers to develop requirements (contact info available on the website)
- It is your responsibility to inform the customer about your presentation
- Advise customer to become familiar with the customer related information on the course website

Supervisor

- School of computing (or cross-appointed) faculty members
- First choice: software engineering faculty members
- Start contacting potential supervisors
- It is your responsibility to inform the supervisor about your presentation

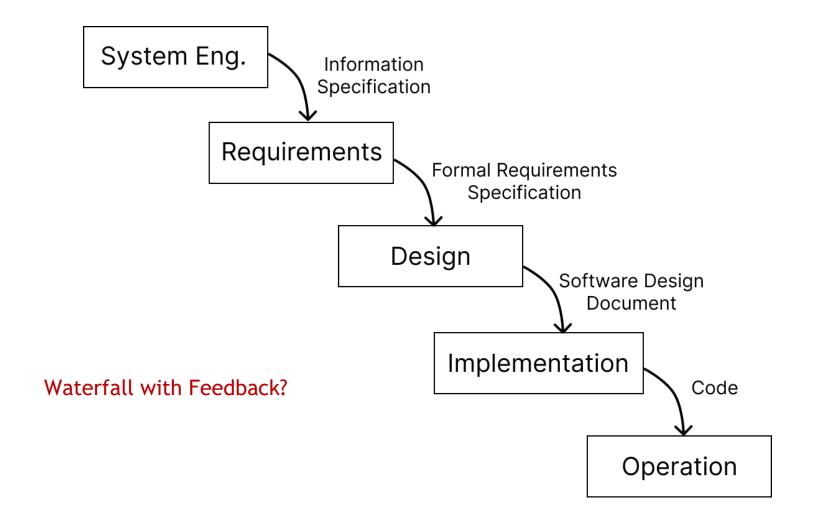
Software Engineering

- Software engineering (definitions from various sources)
 - Software development is not only programming
 - Multi-person construction of multi-version software
 - Engineering techniques and methods for building large software systems by a number of people in an systematic way
 - Each software process model includes a set of steps to build a software product - software life cycle model

Software Process Models

- Most software life cycle models include the following steps
 - **Requirements**
 - Specification
 - Design
 - Programming
 - Integration
 - Testing (may be attached to any steps?)
 - Operation and Maintenance
- Some most commonly used models
 - Waterfall Model
 - Prototyping model
 - Spiral model

Waterfall Model



Waterfall – Advantages and Disadvantages

Advantages

- Prescribes a strict disciplined approach following well-defined tasks
- Separation of phases and transitions among them separation of tasks
- Documentation helps reduce maintenance

Disadvantages

- Client: "I know this is what I asked for, but this is not what I really wanted"
- Heavily documentation dependent too much overhead for small software

Important Dates

• Schedule: Tuesdays, 2:30 pm-5:30 pm, NICOL HALL RM 321

• Important Dates

What	When	Weight
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Contract plus initial project plan	Sept. 23, 2025 (23:59:59 EST, onQ + email to TA and supervisor)	5%
Requirements document	Oct. 28, 2025 (23:59:59 EST, onQ + email to TA and supervisor)	10%
Requirements presentation	Oct. 28, 2025	5%
Design document	Dec. 2, 2025 (23:59:59 EST, onQ + email to TA and supervisor)	10%
Design presentation	Dec. 2, 2025	5%
Quality assurance and deployment plan	Jan. 27, 2026 (23:59:59 EST, onQ + email to	10%
document	TA and supervisor)	
Quality assurance and deployment plan presentation	Jan. 27, 2026	5%
Weekly progress reports (email to supervisor & customer)	By email, each Thursday, starting January 13, 2026	5%
Final project documentation	March 31, 2026 (23:59:59 EST, onQ + email to TA and supervisor)	15%
Final project presentation (delivered system to	March 31, 2026 (demo, software and	25%
customer)	documentation delivery)	
Final poster submission/presentation	Creative Computing Showcase, TBD	5%
Total		100%

Next Tasks and Submission

- Form the group
- Submit your group information to the TA (identify a team lead) by September 16, 2025
- Choose and contact the customer
- Find a supervisor
- Finalize the project plan
- Sign and submit the contract (Monday, September 23, 2025)
- Check the resource page for example documents and guidelines

Some Important Points

- Documents not submitted by the due date will face a penalty of 10%
- All members of the group are expected to cover a part of each presentation
- Attendance at meetings/presentations is mandatory
- Who did what? Each submitted document and email reports should explicitly identify the contributions of each group member
- Next Deadline: Contract plus initial project plan, Monday, September 23, 2025

Some Important Points – contd.

- If you cannot find a group by next week, please contact the TA
- If you cannot find a supervisor by the deadline, please contact me
- If you sense any problem in the group, please contact your supervisor and me ASAP
- . Any questions? Please email me or the TA.
- For detail information: http://cs.queensu.ca/home/cisc498/