



# THE UNIVERSITY OF WINNIPEG

## Applied Computer Science

**Course Number:** ACS-3700-813 (3)  
**Course Name:** Health Informatics Practicum

### Instructor Information

**Instructor:** Professor Sergio G. Camorlinga      **Email:** [s.camorlinga@uwinnipeg.ca](mailto:s.camorlinga@uwinnipeg.ca)  
**Meeting time and location:** N/A  
**Office hours:** N/A

### Prerequisite Information (This information can be found in the UW Academic Calendar)

- Permission of the Department Chair
- Students normally have completed 30 credit hours in health informatics stream

### Restrictions (This information can be found in the UW Academic Calendar)

- Permission of Department required

### Important Dates

Practicum Starts	May 1, 2018
Final Withdrawal Date w/o academic penalty:	August 1, 2018
(A minimum of 20% of the work on which the final grade is based will be evaluated and available to the student before the voluntary withdrawal date. Please note that withdrawing before the VW date does not necessarily result in a fee refund.)	
University closed	May 21 (Victoria Day), July 2 (in lieu of Canada Day), September 3 (Labour Day)
Practicum Ends	August 31, 2018

### Course Objectives/Learning Outcomes

Health Internship is internship in a healthcare environment. The course facilitates professional working experience in a sponsoring health-related organization. Approval must be obtained from the supervising faculty member as well as from the Department Chair before enrolment.

## **Roles and Responsibilities**

### **Instructor**

The Instructor reviews and approves the internship work proposal and final report. The Instructor assigns grades.

### **Sponsor**

Sponsors the project, provides problem description and functional requirements, approves project proposal, reviews deliverables, provides acceptance for finished internship term. The sponsor's cooperation is necessary and required. The sponsor may participate in the grading process by providing internship feedback.

## **Evaluation Criteria**

Each student internship term is an individual project. The internship is a pass/fail course with a final grade of S (Standing) or F (Failure) respectively. The evaluation criteria require 3 main activities as follows:

### **1. Internship Project Proposal Report (to approve internship term) – 20%**

The project proposal is submitted for approval to the Instructor for internship credit approval before the internship starts. The project proposal is generally no longer than 4 pages in length. The project proposal may contain the following sections (not necessarily all).

- Title page (including project title)
- Sponsor information including healthcare facility name, address, contact person, phone & email
- Internship start and end dates. Number of working hours / week. Note that a minimum of 300 working hours for the internship is required to obtain 3 credits.
- Introduction and project idea
- Background information
  - Literary search
- Problem description
- Theoretical framework
  - Topics and/or papers
- Requirement definitions and functional specifications
- Proposed System
- Proposed System Architecture
  - Software Architecture
  - Hardware Architecture
- Development Environments
- Proposed test and/or experiments
  - Data set
- Proposed verification and validation plans

## **2. Final Internship Project Report – 40%**

A final report is submitted to the Instructor no later than 1 week after the internship ends. The final report may contain the following sections (not necessarily all). It is usually no longer than 4-6 pages in length.

- Title page (including project title)
- Abstract
  - 200 words or less
  - Keywords
- Introduction
  - Motivation, problem definition, contribution/outcome
- Background
  - Relevant information to understand your problem, related works
- Theoretical Framework
  - Detailed description of the theory used in your project
  - Description should start with fundamental concepts/defs and build upon this foundation to the framework used in your project
- Implementation
  - System description
    - Software architecture
    - Hardware architecture
  - Development environments
  - Code and design diagrams
  - Algorithm description
    - Complexity analysis
- Experiments and Results
  - Details of the experiments and your observations
- Analysis
- Conclusion
- References

## **3. Final Internship Project Presentation – 40%**

The final internship project presentation should cover the salient points from your final internship report, and it may include a demonstration of your application (if applicable). The final internship project presentation must be scheduled no later than 1 week after the internship ends. The presentation is open to the public, and the instructor, the sponsor, and ACS faculty and students will be invited to the final presentation. The presentation is 20-30 minutes in length, followed by a 10-20 minute question and answer period. Feedback can be requested from ACS faculty members.

## **Email Communication Requirements**

Emails from accounts at uwinnipeg.ca are usually not filtered by the UofW email filter. Thereby it is recommended electronic communication used for the course utilize a UofW email account to minimize the risk of filtering.

## **Student Services**

Students with documented disabilities, temporary or chronic medical conditions, requiring academic accommodations for tests/exams (e.g., private space) or during lectures/laboratories (e.g., note-takers) are encouraged to contact Accessibility Services (AS) at 786-9771 or [accessibilityservices@uwinnipeg.ca](mailto:accessibilityservices@uwinnipeg.ca) to discuss appropriate options. All information about a student's disability or medical condition remains confidential  
<http://www.uwinnipeg.ca/accessibility>

## **Misuse of Computer Facilities, Plagiarism, and Cheating**

Academic dishonesty is a very serious offense and will be dealt with in accordance with the University's policies. Be sure that you have read and understood Regulations & Policies #8, in the 2017-2018 UW Undergraduate Academic Calendar available at <http://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf>.

Additional information is available at University of Winnipeg library video tutorial "Avoiding Plagiarism" <https://www.youtube.com/watch?v=UvFdxRU9a8g>

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