

# Course Addendum

Semester**: Summer 2021** Subject Code: **DPS912** Section**:**

Subject Title: **Topics in Unix Systems Programming**

Professor:  **Miguel Watler** Office**:**

E-mail: miguel.watler@senecacollege.caExt**.**

Office Hours**:** Mondays 10:45am-12:30pm, Wednesdays 10:45am-12:30pm,

Any other time by appointment.

Approved by:

Kathy Dumanski, Chair, School of Software Design and Data Science

Please read this addendum to the general course outline carefully. It is your guide to the course requirements and activities.

Please refer to the course outline for learning outcomes, course description and text and materials.

Please also visit sdds.senecacollege.ca for key information on courses, graduation requirements, transfer credit, and more from the School of Software Design and Data Science.

**Assessment Summary**

|  |  |
| --- | --- |
| Quizzes (best 10 of 11) | 10% |
| Labs (best 10 of 11) | 10% |
| Assignments | 30% |
| Mid-term Test | 20% |
| Final Exam | 30% |

## Course Policies

* Achieve a grade of 50% or better on the final exam
* Satisfactorily complete all assignments
* Achieve a weighted average of 50% or better for the tests and final exam
* Achieve a grade of 50% or better on the overall course

**Academic Policies:**

http://www.senecacollege.ca/about/policies/academics-and-student-services.html

**PLEASE RETAIN THIS DOCUMENT FOR FUTURE EDUCATIONAL AND/OR EMPLOYMENT USE.**

**TENTATIVE WEEKLY SCHEDULE**

**Summer 2021**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Topic or Skill** | **Reading** | **Assessment** | **Weight** |
| **Week 1**  **July 5-9** | **Introduction** | **Linux Programming Interface - Chapters 1-3** | **1 pre-lecture Quiz,**  **lab setup** | **1% quiz** |
| **Week 1**  **July 5-9** | **Makefile, Static and Shared Libraries** | **Linux Programming Interface – Chapter 41** | **1 pre-lecture Quiz,**  **1 lab (due Jul 9)** | **1% quiz**  **1% lab** |
| **Week 2**  **July 12-16** | **Programming Concepts/**  **File I/O** | **Linux Programming Interface – Chapter 4** | **1 pre-lecture Quiz,**  **1 lab (due Jul 16)** | **1% quiz**  **1% lab** |
| **Week 2**  **July 12-16** | **Advanced File I/O/**  **Debugging** | **Linux Programming Interface - Chapter 5** | **1 pre-lecture Quiz,**  **1 lab (due Jul 19)** | **1% quiz**  **1% lab** |
| **Week 3**  **July 19-23** | **Processes/**  **Signals** | **Linux Programming Interface - parts of Chapters 6, 20, 24-26** | **1 pre-lecture Quiz,**  **1 lab (due Jul 23)** | **1% quiz**  **1% lab** |
| **Week 3**  **July 19-23** | **MidTerm** |  | **1 MidTerm (Jul 23)**  **1 lab (due Jul 26)**  **Assignment 1 (due Aug 6)** | **1% lab**  **20% midterm** |
| **Week 4**  **July 26-30** | **Sockets/**  **Advanced Makefiles** | **Linux Programming Interface - parts of Chapters 56, 57, 59, 60** | **1 pre-lecture Quiz,**  **1 lab (due Jul 30),** | **1% quiz** |
| **Week 4**  **July 26-30** | **Threads/**  **Mutexes/**  **Server Design** | **Linux Programming Interface - Chapters 29-30** | **1 pre-lecture Quiz,**  **1 lab (due Aug 2),** | **1% quiz**  **1% lab** |
| **Week 5**  **Aug 2-6** | **Pipes & FIFOs** | **Linux Programming Interface - Chapter 44** | **1 pre-lecture Quiz,**  **1 lab (due Aug 6),**  **Assignment 2 (due Aug 13)** | **1% quiz**  **1% lab**  **15% assign.1** |
| **Week 5**  **Aug 2-6** | **Message Queues/**  **IPC Comparison** | **Linux Programming Interface – Chapters 43, 46** | **1 pre-lecture Quiz,**  **1 lab (due Aug 9),** | **1% quiz**  **1% lab** |
| **Week 6**  **Aug 9-13** | **Semaphores/ Shared Memory**  **(Push Semaphores back)** | **Linux Programming Interface - Chapter 53, 48** | **1 pre-lecture Quiz,**  **1 lab (due Aug 13)** | **1% quiz**  **1% lab** |
| **Week 6**  **Aug 9-13** | **Final Assessment** |  | **Final Assessment** | **30% final**  **1% lab**  **15% assign.2** |

**PLEASE RETAIN THIS DOCUMENT FOR FUTURE EDUCATIONAL AND/OR EMPLOYMENT USE.**