

# Course Addendum

Semester**: Winter 2021** Subject Code: **UNX511/DPS912** Section**:**

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

Professor:  **Miguel Watler** Office**: N.A.**

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

Office Hours**: Tuesdays 11:40am-1:25pm, Thursdays 10:45am-12:30pm**

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

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**TENTATIVE WEEKLY SCHEDULE**

**Winter 2021**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Topic or Skill** | **Reading** | **Assessment** | **Weight** |
| **Week 1**  **Jan 11-15** | **Introduction** | **Linux Programming Interface - Chapters 1-3** | **1 lab (due Jan 22)** |  |
| **Week 2**  **Jan 18-22** | **Makefile, Static and Shared Libraries** | **Linux Programming Interface – Chapter 41** | **1 pre-lecture Quiz,**  **1 lab (due Jan 29)** | **1% quiz**  **1% lab** |
| **Week 3**  **Jan 25-29** | **Programming Concepts/**  **File I/O** | **Linux Programming Interface – Chapter 4** | **1 pre-lecture Quiz,**  **1 lab (due Feb 5)** | **1% quiz**  **1% lab** |
| **Week 4**  **Feb 1-5** | **Advanced File I/O/**  **Debugging** | **Linux Programming Interface - Chapter 5** | **1 pre-lecture Quiz,**  **1 lab (due Feb 12)** | **1% quiz**  **1% lab** |
| **Week 5**  **Feb 8-12** | **Device Drivers** | **Linux Device Drivers – Chapter 1** | **1 pre-lecture Quiz,**  **1 lab (due Feb 19)** | **1% quiz**  **1% lab** |
| **Week 6**  **Feb 15-19** | **Processes/**  **Signals** | **Linux Programming Interface - parts of Chapters 6, 20, 24-26** | **1 pre-lecture Quiz,**  **1 lab (due Feb 26)** | **1% quiz**  **1% lab** |
| **Week 7**  **Feb 22-26** | **MidTerm** |  | **1 MidTerm (Feb 22),**  **Assignment 1 (due Mar 26)** | **20% midterm** |
| **Study Week**  **Mar 1-5** | | | | |
| **Week 8**  **Mar 8-12** | **Sockets** | **Linux Programming Interface - parts of Chapters 56, 57, 59, 60** | **1 pre-lecture Quiz,**  **1 lab (due Mar 19),**  **Assignment 1 (due Mar 26)** | **1% quiz**  **1% lab** |
| **Week 9**  **Mar 15-19** | **Pipes & FIFOs** | **Linux Programming Interface - Chapter 44** | **1 pre-lecture Quiz,**  **1 lab (due Mar 26),**  **Assignment 1 (due Mar 26)** | **1% quiz**  **1% lab** |
| **Week 10**  **Mar 22-26** | **Message Queues/**  **IPC Comparison** | **Linux Programming Interface - Chapters 43, 46** | **1 pre-lecture Quiz,**  **1 lab (due Apr 2),**  **Assignment 1 (due Mar 26)** | **1% quiz**  **1% lab**  **15% assign.1** |
| **Week 11**  **Mar 29-Apr 2** | **Threads/**  **Mutexes/**  **Server Design** | **Linux Programming Interface - Chapters 29-30** | **1 pre-lecture Quiz,**  **1 lab (due Apr 9),**  **Assignment 2 (due Apr 16)** | **1% quiz**  **1% lab** |
| **Week 12**  **Apr 5-9** | **Semaphores** | **Linux Programming Interface - Chapter 53** | **1 pre-lecture Quiz,**  **1 lab (due Apr 16)**  **Assignment 2 (due Apr 16)** | **1% quiz**  **1% lab** |
| **Week 13**  **Apr 12-16** | **Shared Memory/**  **Review** | **Linux Programming Interface - Chapter 48** | **1 pre-lecture Quiz,**  **1 lab (due Apr 23),**  **Assignment 2 (due Apr 16)** | **1% quiz**  **1% lab**  **15% assign.2** |
| **Week 14**  **Apr 19-23** | **Final Assessment** |  | **Final Assessment** | **30% final** |

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