

# Course Addendum

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

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

Professor: Nick SajadiOffice**:**

E-mail: nick.sajadi@senecacollege.caExt**.**

Office Hours**:**

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](about:blank) 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](about:blank)

**TENTATIVE WEEKLY SCHEDULE**

**Fall 2021**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Topic or Skill** | **Reading** | **Assessment** | **Weight** |
| **Week 1**  **Sep 7-10** | **Introduction** | **Linux Programming Interface - Chapters 1-3** |  |  |
| **Week 2**  **Sep 13-17** | **Makefile, Static and Shared Libraries** | **Linux Programming Interface – Chapter 41** | **1 pre-lecture Quiz,**  **1 lab (due Sep 24)** | **1% quiz**  **1% lab** |
| **Week 3**  **Sep 20-24** | **Programming Concepts/**  **File I/O** | **Linux Programming Interface – Chapter 4** | **1 pre-lecture Quiz,**  **1 lab (due Oct 1)** | **1% quiz**  **1% lab** |
| **Week 4**  **Sep 27-Oct 1** | **Advanced File I/O/**  **Debugging** | **Linux Programming Interface - Chapter 5** | **1 pre-lecture Quiz,**  **1 lab (due Oct 8)** | **1% quiz**  **1% lab** |
| **Week 5**  **Oct 4-8** | **Device Drivers** | **Linux Device Drivers – Chapter 1** | **1 pre-lecture Quiz,**  **1 lab (due Oct 15)** | **1% quiz**  **1% lab** |
| **Week 6**  **Oct 12-15** | **Processes/**  **Signals** | **Linux Programming Interface - parts of Chapters 6, 20, 24-26** | **1 pre-lecture Quiz,**  **1 lab (due Oct 22)** | **1% quiz**  **1% lab** |
| **Week 7**  **Oct 18-22** | **MidTerm** |  | **1 MidTerm (Oct 22),**  **Assignment 1 (due Nov 19)** | **20% midterm** |
| **Study Week**  **Oct 25-29** | | | | |
| **Week 8**  **Nov 1-5** | **Sockets** | **Linux Programming Interface - parts of Chapters 56, 57, 59, 60** | **1 pre-lecture Quiz,**  **1 lab (due Nov 12),**  **Assignment 1 (due Nov 19)** | **1% quiz**  **1% lab** |
| **Week 9**  **Nov 8-12** | **Threads/**  **Mutexes/**  **Server Design** | **Linux Programming Interface - Chapters 29-30** | **1 pre-lecture Quiz,**  **1 lab (due Nov 19),**  **Assignment 1 (due Nov 19)** | **1% quiz**  **1% lab** |
| **Week 10**  **Nov 15-19** | **Pipes & FIFOs** | **Linux Programming Interface - Chapter 44** | **1 pre-lecture Quiz,**  **1 lab (due Nov 26),**  **Assignment 1 (due Nov 19)** | **1% quiz**  **1% lab**  **15% assign.1** |
| **Week 11**  **Nov 22-26** | **Message Queues/**  **IPC Comparison** | **Linux Programming Interface - Chapters 43, 46** | **1 pre-lecture Quiz,**  **1 lab (due Dec 3),**  **Assignment 2 (due Dec 10)** | **1% quiz** |
| **Week 12**  **Nov 29-Dec 3** | **Semaphores** | **Linux Programming Interface - Chapter 53** | **1 pre-lecture Quiz,**  **1 lab (due Dec 10)**  **Assignment 2 (due Dec 10)** | **1% quiz**  **2% lab** |
| **Week 13**  **Dec 6-10** | **Shared Memory/**  **Review** | **Linux Programming Interface - Chapter 48** | **1 pre-lecture Quiz,**  **1 lab (due Dec17(bonus)),**  **Assignment 2 (due Dec 10)** | **1% quiz**  **1% lab**  **15% assign.2** |
| **Week 14**  **Dec 13-17** | **Final Assessment** |  | **Final Assessment** | **1% lab(bonus)**  **30% final** |

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

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