

## Course Outline

This outline provides an overview of the course modules by week. Please remember to check the calendar for specific due dates.

Each course module runs for one week (with one exception – see the course calendar). Due dates for assignments are on the calendar.

Module	Topic	Assignment
<b>Module 1</b>	Introductory Assignment UNIX History and Fundamentals	<b>Reading:</b> Stevens, Chapter 1 • Module 1 Discussion
<b>Module 2</b>	Make and Makefiles, Libraries	<b>Reading:</b> Mecklenburg, Chapters 1, 2, 3 and 5; Stevens, Chapter 2 • Module 2 Discussion, Quiz • Project #1
<b>Module 3</b>	Perl	<b>Reading:</b> None (online) • Module 3 Discussion, Quiz
<b>Module 4</b>	File I/O Files and Directories	<b>Reading:</b> Stevens, Chapters 3, 4 • Module 4 Quiz • Project #2
<b>Module 5</b> (Two week module)	Processes	<b>Reading:</b> Stevens, Chapters 7, 8, 9 • Module 5 Discussion, Quiz
<b>Module 6</b>	Signals	<b>Reading:</b> Stevens, Chapter 10 • Module 6 Discussion, Quiz • Project #3
<b>Module 7</b>	Threads	<b>Reading:</b> Stevens, Chapter 11, 12 • Module 7 Discussion
<b>Module 8</b>	Daemon Processes Advanced I/O	<b>Reading:</b> Stevens, Chapter 13, 14 • Module 8 Discussion, Quiz
<b>Module 9</b>	FIFOs, Shared Memory	<b>Reading:</b> Stevens, Chapter 15.1 - 15.6, 15.9 • Module 9 Discussion, Quiz • Project #4
<b>Module 10</b>	Message Queues Semaphores	<b>Reading:</b> Stevens, Chapter 15.7, 15.8 • Module 10 Discussion, Quiz
<b>Module 11</b>	POSIX IPC	<b>Reading:</b> None (online) • Module 11 Discussion
<b>Module 12</b>	Terminal I/O Pseudo Terminals	<b>Reading:</b> Stevens, Chapter 18 • Module 12 Discussion, Quiz • Project #5
<b>Module 13</b>	Network IPC - Sockets	<b>Reading:</b> Stevens, Chapter 16; Stevens, Chapter 17 (optional) • Module 13 Discussion • Module 13 Quiz