CIS166 – Programming in Perl
Section: 5687 Day: Saturday Time: 8:30-11:10

WEEK	DATE	CHAPTER	LESSON / SUBJECT	NOTES
1	8/28	Course Syllabus. Ch. 1 Introduction	Intro & Orient. - Review Syllabus & Schedule. What is Perl What is "Code" A first program	 Exercise 1 Assigned
2	9/4	Ch. 2 Scalar Data Ch. 3 Lists and Arrays Ch. 10 More Control Structures Ch. 5 Hashs	Scalars, Expressions, Lists, Contexts, References Flow of Control, Loops, Logical operators, Statement modifiers	**Exercise 1 Due** Exercise 2 Assigned
3	9/11	Ch. 6 I/O Basics Ch. 11 Filehandles and File Tests Ch. 4 Subroutines	File Handles, Pattern Matching, Split/Join, DATA Handle. Scope, Global Variables, Parameters, Return Values, Designing Functions	**Exercise 2 Due** Exercise 3 Assigned
4	9/18	References and aggregate data structures Documentation Debugging	Creating references, Scope and references, References to functions POD Command line options Debugging by hand, The Perl Debugger Project Proposal	**Exercise 3 Due** Exercise 4 Assigned Project Proposal
5	9/25	Ch. 7 Concepts of Regular Expressions Ch. 8 More about Regular Expressions Ch. 9 Using Regular Expressions Ch. 15 Strings and Sorting	The basic components, The character class, Simple anchors, Grouping, capturing, and backreferences, Other anchors: lookahead and lookbehind The match operator, The substitution operator, String within strings, Translation characters	**Draft Project Proposal Due** **Exercise 4 Due** Exercise 5 Assigned
6	10/2	Ch. 12 Working with Lists Ch. 13 Manipulating Files and Directories	Processing a list, Filtering a list, Sorting lists, Chaining functions, Reverse revisited Running external commands, Reading and writing from/to external commands, Working with directories, Filetest operators	**Exercise 5 Due** Exercise 6 Assigned
7	10/9	Using modules	Installing modules, Using modules, File::Basename MIDTERM Review	**Final Project Proposal Due** **Exercise 6 Due**
8	10/16	**MIDTERM**	Exam and Review	
9	10/23	Modular programming	Module and packages, Making a module, Why make modules?	**Code Review Due** Exercise 7 Assigned
10	10/30	Algorithms and data structuring	Searching, Sorting, Heap sort	**Exercise 7 Due** Exercise 8 Assigned
11	11/6	Object-oriented programming and abstract data structures	What is OOP? OOP in Perl, Abstract data structures, Stacks, queues, and linked lists	**Code Review Due** **Exercise 8 Due** Exercise 9 Assigned
12	11/13	More OOP examples	The heap as an abstract data structure Grades: an object example	**Exercise 9 Due** Exercise 10 Assigned
13	11/20	Ch. 16 Simple Databases Programming for the Web - CGI	DBM Pack/Unpack	**Code Review Due** **Exercise 10 Due**
	11/27	**Thanksgiving**		
14	12/4	**Class Presentations**		**Project Due**
15	12/11	**FINAL EXAM**	Exam and Review	