COURSE SYLLABUS

COM330 Perl Programming

Course Description

This course introduces the Perl (Practical Extraction and Report Language) programming language. Students will write a series of Perl scripts, assigned by the instructor, that will generate code, manipulate dates and times, parse text, convert database file formats, and store, manipulate, retrieve, and display data on the World Wide Web using the common gateway interface and Perl modules.

General Course Information

Number of Units/Weeks	4/10
#Hours Lecture/#Hours Laboratory/#Hours Homework	30/20/60
Prerequisite(s)	COM107
Co-requisites (s)	N/A
Course Developer(s)	S. Nance, BA
Date Approved / Last Review	June 2006 / May 2014

Learning Outcomes

Upon successful completion of this course, students will be able to:

Store, manipulation, and display data

Deploy Internet applications using the WWW and the Common Gateway Interface (CGI)

Search, retrieve and replace string data utilizing regular expressions

Create databases using MySQL and Perl Database Interface (DBI)

Create and deploy Perl modules

Instructional Methods Employed in this Course

Lecture and reading assignments

Hands-on exercises and labs

Research

Student presentations

Practical application of theory and skills in authentic projects

Build on prior knowledge and experience of students to enhance richness of class activities

Information Resources for this Course

📖 **Textbook**

Schwartz, Randal L., Tom Phoenix, and Brian D. Foy. Learning Perl, 4th edition O'Reilly, 2005. ISBN-13: 978-0596101053.

🗁 **Other Materials**

Any Perl, version 5 or above (e.g. Active Perl)

A basic text editor (e.g. Notepad)

Open Perl (editor)

✍ **Drawing tools**

N/A

🖱 **Web Site Readings**

http:// www.cgi101.com

http://dev.mysql.com/doc/mysql/en/tutorial

http://dev.mysql.com/doc/refman/5.0/en/tutorial.html

http://www.perl.com

Table/Topics & Assignments

Types of Assignments:

Lecture: Considered Lecture Hours

Classroom Discussion: Considered Lecture Hours

In Class Critique: Considered Lecture Hours

Delivering Oral Presentations: Considered Lecture Hours

In Class (IC) Exercise: Considered Lecture Hours

Reading: Considered Homework (HW), work done outside of class.

WebClass lesson (non-online courses): Considered HW, work done outside of class

Lab Work: Considered Lab Hours

Quiz, Midterm or Final: Considered Lecture Hours

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 1A	Introduction to Course, Overview of Perl, Data Type, List and Arrays, Control Structures	3				
LAB 1A	Practical activity		2			
HW 1A	Read chapters 1, 2, & 3 (55 pages). Evaluated in HW 1B			5.5		
HW 1B	Project 1.1: Using Perl			2	75	Week 2
Total Week 1		3	2	7.5	75	
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 2A	Subroutines, Hashes, I/O Basics	3				
LAB 2A	Practical activity		2			
HW 2A	Read chapters 4, 5, & 6 (41 pages). Evaluated in HW 2B			4.1		

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
HW 2B	Project 2.1: Creating a menu			2	75	Week 3
Total Week 2		3	2	6.1	75	

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 3A	Regular Expressions	3				
LAB 3A	Practical activity		2			
HW 3A	Rad chapters 7, 8, & 9 (29 pages). Evaluated in HW 3B			2.9		
HW 3B	Project 3.1: Split			3	75	Week 4
Total Week 3		3	2	5.9	75	

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 4A	File handling and file test	3				
LAB 4A	Practical activity		2			
HW 4A	Read chapters 11 & 13 (36 pages). Evaluated in HW 4B			3.6		
HW 4B	Project 4.1: Phone book			5	75	Week 5
Total Week 4		3	2	8.6	75	

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 5A	More control structures	2				
LAB 5A	Practical activity		2			
Exam 5A	Midterm	1			200	In class
HW 5A	Read chapter 10 (19 pages). Evaluated in HW 6C			1.9		
Total Week 5		3	2	1.9	200	

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 6A	Web development and CGI programming	3				
LAB 6A	Practical activity		2			
HW 6A	Visit the following website (evaluated in HW 6C): http://www.w3schools.com/			1		
HW 6B	Visit the following website (evaluated in HW 6C): http://www.quackit.com/web_servers/tutorial/how_web_servers_work.cfm			1		
HW 6C	CGI Project 1			4	75	Week 7
Total Week 6		3	2	6	75	

		LEC	LAB	HW	Point	

Type	Topic/Description	Hours	Hours	Hours	Value	Due
LEC 7A	MySQL dabase	3				
LAB 7A	Practical activity		2			
HW 7A	Visit the following website (evaluated in HW 7B): http://www.w3schools.com/sql/default.asp			3		
HW 7B	CGI Project 2			6	75	Week 8
Total Week 7		3	2	9	75	

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 8A	Strings & sorting, report features	2				
LAB 8A	Practical activity		3			
HW 8A	Read chapters 12 & 15 (23 pages). Evaluated in HW 8B			2.3		
HW 8B	Project 8.1: Perl-DB application			8	75	Week 9
Total Week 8		2	3	10.3	75	

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 9A	OOP, packages, modules	2				
LAB 9A	Practical activity		3			
HW 9A	Read chapter 16, Appendix B (31 pages). Evaluted in HW 9B			3.1		
HW 9B	Project 9.1: Module development			5	75	Week 10
Total Week 9		2	3	8.1	75	

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 10A	Project review	3				
Exam 10A	Final exam	2			200	In class
Total Week 10		5	0	0	200	

Course Hours Summary

Week	Topic	LEC Hours	LAB Hours	HW Hours
1		3	2	7.5
2		3	2	6.1
3		3	2	5.9
4		3	2	8.6
5		3	2	1.9
6		3	2	6
7		3	2	9
8		2	3	10.3

9		2	3	8.1
10		5	0	0
Total		30	20	63.4

Table/Point Breakdown

Assignment Type	Possible Points	Percentage of Grade
Projects	600	60%
Midterm	200	20%
Final	200	20%
Total	1000	100%

Your Grades for this Course

Your final grade for this course will be based on an assessment by the Instructor of your performance on a number of course activities, which may include objective tests, classroom exercises, laboratory demonstrations, project papers, or other types of activities. The chart below indicates in what activities you will engage, how many possible points can be earned for each activity, and the percentage of your final grade that will be accounted for by each activity.

Students in this course should be graded following Coleman University assessment practices and policies. A point system is used in the University to indicate student performance on various required activities or projects. For this course, it is recommended that points be distributed as follows:

Coleman University Grade Assignment Policy:

Percent	Letter Grade	Grade Points
94-100	A	4
90-93	A-	3.67
87-89	B+	3.33
84-86	B	3
80-83	B-	2.67
77-79	C+	2.33
74-76	C	2
70-73	C-	1.67
67-69	D+	1.33
64-66	D	1
60-63	D-	0.67
N/A	INC	0
N/A	W	0
60 or above	CR	0
59 or below	NC	0
N/A	I	0
N/A	W	0

N/A	AU	0
N/A	TR	0
N/A	WV	0

Legend	
CR = Credit	NC = No Credit
I = Incomplete	W = Course Withdrawal
AU = Audit	TR = Transfer Credit
WV = Waiver	

Academic Accommodation / Adjustment Policy:

In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA), Coleman University offers accommodations to students with documented physical, psychological, and/or cognitive disabilities. Coleman University will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to offer equal educational opportunities to qualified disabled individuals.

To qualify for an academic accommodation under ADA, the student must provide adequate documentation of a disability. Students seeking academic accommodations should contact the campus ADA Coordinator at 858-966-3953 or via email at ada@coleman.edu. The ADA Coordinator will review the documentation provided and verify ADA coverage. Students covered under ADA must meet with the ADA Coordinator at the beginning of every term to determine the appropriate academic accommodations. Failing to meet with the ADA Coordinator at the beginning of every term may impact the availability of accommodations.

After the academic accommodations have been determined, the students' instructors will be notified by the ADA Coordinator. If any problems or concerns regarding the provision of accommodations occur, the student must inform the ADA Coordinator. If the student feels accommodation is not being made appropriately, the student may follow the published Student Grievance Procedures.