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Spring 2013

CS 1150-01: Introduction to Computer Science

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SYLLABUS

CS 1150-01 Introduction to Computer Science, Spring 2013

- Contact Information:** Karen Meyer, Sr. Lecturer
Office: 344 Russ Center
Office Phone: (937)775-5131
Email Address: karen.meyer@wright.edu(please use this e-mail rather than Pilot mail)
- Course/Lab Meeting Times:** MWF 10:10 am-11:05 am152 RC
M (lab) 2:30 – 4:20 pm – 320 Oelman
- Course Web Site:** <http://pilot.wright.edu>
- Student Resources:** <http://computerscience.jpup.com/csilluminated/5e/Default.aspx>
- Office Hours:** MW 9:00 – 10:00 AM or by appointment
- Advising Hours:** You are welcome to visit during advising hours. Please call 775-5131 to make an appointment. The advising office is located in 303 Russ. Advising hours are TTh and most Friday mornings.
- Prerequisite:** None
- Credit Hours:** 4
- Textbooks:** Computer Science Illuminated, Fifth Edition by Nell Dale and John Lewis, Publisher – Jones and Bartlett Learning, ISBN: 978-1-4496-7284-3**REQUIRED**

Lab book: Explorations in Computer Science, 2ND Edition by R.Mark Meyer, ISBN: 13:978-0-7637-3832-7 **REQUIRED**
- Course Description:** The Introduction to Computer Science course will expose students to the scientific method as implemented in computer science. The course will show students how the scientific method as implemented in computer science can be used as a problem-solving tool. The course requires students to apply and extend the concepts in a laboratory setting. The concepts will include the study of and methodology of algorithm discovery, design, application, and fundamentals of networks. *Lecture and Lab*

Course Evaluation:	Exams (3)	55 %
	Exam 1	15 %
	Exam 2	20 %
	Exam 3	20 %
	Labs	25 %
	In-Class Activities/Quizzes	20 %

Course and Laboratory Policies:

Exam Policy: If you know in advance that you will miss an exam, please notify me before the exam and we will try to arrange for you to take it early. If you miss an exam due to illness, notify me as soon as you are able and we will try to arrange an alternate date. Please bring a medical excuse.

In-Class work and quizzes may not be made up.

From this lab, you may only access Internet sites related to this course. Refer to the web site below for a complete listing of guidelines: Responsible Use of Information Technology Guidelines.

<http://www.wright.edu/cwis/policies/itpolicy.html>

You are responsible for doing your own work. You may not accept files from other students or give files to other students.

Academic Misconduct guidelines will be followed. Refer to the following web site for details:

<http://www.wright.edu/students/judicial/integrity.html>

Succeeding In This Class:

1. Read the book before you come to class.
2. Come to class.
3. Engage with you group. Be a leader.
4. Review your class notes after class.
5. Use the student resources to review.
6. Be engaged. Ask questions.

Tentative Schedule: (Lab details are posted on Pilot)

Week/Day	Topics	Reading	Lab
1-M (1/7)	Introduction, The Big Picture	Ch 1	NO LAB
W	The Big Picture, History of Computing	Ch 1, pp 3-24, cont	
F	Finish Ch 1		
2-M(1/14)	Communications Layer, Networking	Ch 15	Lab 1
W	Networking, cont.		
F	Networking, cont.		
3-M(1/21)	NO CLASS, MLK DAY	CH 16, pp 518-30	Lab 2
W	HTML programming, CSS		
F	HTML, CSS		
4-M(1/28)	Web Pages using an Application	Ch 16	Lab 3
	Web Pages, finish up		
F	Applications Layer Database	Ch 12, pp. 398-406	
5-M(2/4)	Database		Lab 4
W	Database		
F	Review		
6-M(2/11)	Exam 1		Lab 5
W	AI, Robotics, Ethics	Ch 13, pp 415-27, 435-39	
F	Operating Systems Layer, Overview of operating systems- roles played, File Systems and Directories	Ch 10, pp 333-337, Ch 11, pp 363 – 375	
7-M(2/18)	File Systems, in class exercise		Lab 6
W	Programming Layer	Ch 6, pp 175-186	
F	Problem Solving	Ch 7, pp 194-207	
8-M(2/25)	Spring Break 2/25 - 3/1		
9-M(3/4)	Javascript and Web Pages	Class Notes	Lab 7
W	Javascript,cont		
F	Javascript	Ch 9	
10-M(3/11)	Java		Lab 8
W	Java		
F	Comparison of Languages		
11-M(3/18)	In Class labs, catch up		Lab 9

Week/Day	Topics	Reading	Lab
W	Review		
F(3/22)	Exam 2		
12-M(3/25)	Information Layer – Binary Values and Number Systems	Ch 2	Lab 10
W	Cont		
F	Data Representation	Ch 3	
13-M(4/1)	Hardware Layer, gate and circuits	Ch 4	Lab 11
W	Continued		
F	Computing components	Ch 5	
14-M(4/8)	Von Neumann Architecture		Lab 12
	Security	Ch 17	
	Security, catch up.	.	
15-M(4/15)	Limitations of Computing	Ch 18	No Lab
W	Review		
F(4/19)	Exam 3		