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Fall 2012

### CS 1150-01: Introduction to Computer Science

Karen Meyer

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## SYLLABUS

### CS 1150-01 Introduction to Computer Science, Fall2012

- Contact Information:** Karen Meyer, Sr. Lecturer  
Office: 344 Russ Center  
Office Phone: (937)775-5131  
Email Address: [karen.meyer@wright.edu](mailto:karen.meyer@wright.edu)
- Course/Lab Meeting Times:** MWF 11:15 am – 12:10 pm – 152 RC  
W (lab) 1:25 – 3:15 pm – 320 Oelman
- Course Web Site:** <http://pilot.wright.edu>
- Student Resources:** <http://computerscience.jbpub.com/csilluminated/5e/Default.aspx>
- Office Hours:** Tuesday and Thursday, 11:00 am – Noon in 344 RC
- 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
- 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, 2<sup>ND</sup> 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*

<b>Course Evaluation:</b>	Exams	55 %
	Labs	25 %
	In-Class Activities	20 %

**Course and Laboratory Polices:**

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:

Tentative Schedule: Lab details are posted on Pilot

Week/Day	Topics	Reading	Lab
1-M (8/27)	Introduction, Scale-up learning, Survey, The Big Picture	Ch 1	
W	The Big Picture, History of Computing, In Class Exercise	Ch 1, pp 3-24, cont	NO LAB
F	Finish Ch 1		
2-M(9/3)	<b>Labor Day Holiday – No Class</b>		
W	Communications Layer, Networking		Networking, Lab 15
F	Networking, cont.		
3-M(9/10)	WWW, HTML	CH 16, pp 518-30	
W	HTML programming		HTML, Web Pages, Lab 16A, 16B, Turn-in
F	Finish Web page		
4-M(9/17)	Applications Layer Information Systems,	Ch 12	

Week/Day	Topics	Reading	Lab
	Spreadsheets		
	Databases, SQL		Data Analysis, Excel Lab 12 A
F	Finish SQL queries, Prep for Lab, Catch Up		
5-M(9/24)	AI, In class – limitations of robots, see uh 101 notes and presentations	Ch 13, pp 415-27, 435-39	
W	Simulation, Gaming	Ch 14, pp 448 -454, remainder is overview using slides	Database, Lab 12B
F	Review		
6-M(10/1)	Exam 1		
W	Operating Systems Layer, Overview of operating systems- roles played	Ch 10, pp 333-40	Artificial Intelligence, Simulation, Lab 13 Lab 14
F	File Systems and Directories	Ch 11, pp 363 –375	
F7-M(10/8)	File Systems, cont.		
W	Programming Layer	Ch 6,pp150- 74(overview -brief) pp 175-186	Operating Systems, Lab 10, Lab 11
F	Problem Solving Problem Solving Algorithm – in class		
8-M(10/15)	Problem Solving and Algorithms, Javascript	Ch 7, pp 194-204 (omit remainder of ch)	
W	Abstract Data Types	Ch 8- brief	Problem Solving and Algorithm Development, Lab 8
F	Object Oriented Design	Ch 9	

Week/Day	Topics	Reading	Lab
9-M(10/22)	High Level Programming Languages		
W	Continued		Programming with Javascript (Turn-in)
F	Examples		
10-M(10/29)	In Class labs, catch up		
W	Review		Javascript
F	Exam 2		
11-M(11/5)	Information Layer – Binary Values and Number Systems	Ch 2	
W	Cont		Number Systems, Lab2, 3B
F	Data Representation	Ch 3	
12-M(11/12)	<b>Veterans Day – No Class</b>		
W	Hardware Layer, gate and circuits	Ch 4	Logic Circuits, LogiSim Lab
F	Cont,		
13-M(11/19)	Computing components	Ch 5	
W	<b>Thanksgiving Vacation – No Class</b>		NO LAB
F(11/23)	<b>Thanksgiving Vacation – No Class</b>		
14-M(11/26)	Security	Ch 17	
W	Cont. possible guest lecturer		Lab of choice (Turn in)
F	Exit Survey, Review, lab of choice reports		
15M(12/3)	Limitations of Computing	Ch 18	
W	Exit Survey, Review		Lab of Choice-cont. – if needed
F	Exam 3		