

CIT135-51 Intro. to Computer Theory Syllabus

(subject to change with notice)

Contact Information

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Office location	NA
Office hours	As needed, I am available to meet before class or pre-scheduled during the week.
Phone	864-7121 (Feel free to call up until 10:00 p.m.)

Course Information

Course Title Intro. to Computer Theory

Course Number CIT-135- 51

Course Description This course is designed to give you a broad based introduction to all aspects of computing. During the course we will be focusing on various aspects of the discipline, including hardware, networking, web, programming logic, ethics, and other aspects of the industry. The goal of this course is to give you a good overview of the computer industry and how things work in order for you to have a solid foundation of knowledge to begin your technical training at Champlain College.

The world of computers is advancing rapidly and becoming an ever more integrated part of our lives and as a result, the level of training for technical people is becoming higher and more difficult. Not that long ago, a course like this would have introduced you to a mouse, keyboard and word processor. Now, most people have those basic skills and we can (actually, have to) start the course at a higher level.

Many of you may be experts in one part of this field or just sophisticated users. That is great and you will be a real asset to the class! Hopefully, you will be learning new things about the field in this class. (If you are not then you should take the challenge exam.)

Course Date Sept 2 - Dec 8, Exam Period- 12/15 - 12/18; No class on Oct. 14

Prerequisite(s) This course is designed to give you an introduction to the technical side of computers and **NOT** to computers in general (i.e. how to use a mouse, Windows or a word processor).

If you think this course may be too simple, you can take the challenge exam to get out of the course. If you think that you can pass the exam then you will need to arrange this with your instructor as soon as possible, but no later than the start of the second week of class. In addition to passing the challenge exam you must also obtain the permission of the Program Director of your major.

Student Learning Outcomes / Course Goals

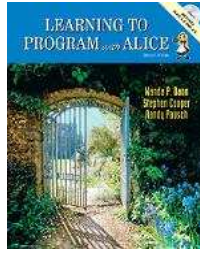
- Students should demonstrate the ability to generalize programming logic and constructs common to all programming languages.
- Students will be able to demonstrate knowledge of the physical structure and components of a computer system and how they work together with software.
- Students will be able to discuss the issues surrounding a global information society including current and emerging technologies.

Textbooks

Required



Title: **Invitation to Computer Science 4th Edition**
 Author(s): G. Michael Schneider & Judith L. Gersting
 Publisher: Thompson Course Technology
 Year Published: 2006
 ISBN: 0-13-187289-3



Title: **Learning to Program with Alice**
 Author(s): Wanda P. Dann, Stephen Cooper & Randy Pausch
 Publisher: Pearson Prentice Hall
 Year Published: 2006
 ISBN: 0-13-187289-3

Highly Recommended



Title: **A Pocket Style Manual Fourth Edition**
 Author(s): Diana Hacker
 Publisher: Bedford / St. Martins
 Year Published: 2006
 ISBN: 0-312-40684-3

NOTE: You will need a writing style manual throughout your time at Champlain College. If you do not already own a copy of this pocket reference or an alternate Hacker reference I strongly recommend you obtain a copy. All formal papers and non-programming homework assignments should be submitted using proper MLA format.

Course Calendar

Although the instructor may deem it appropriate to deviate from the following schedule, the basic design of the course is shown in the table below. The reading assignments from the textbook correspond to the lectures and are found next to the date in the table. Quiz dates are also shown in this column of the table.

Week	Planned Weekly Topics Topics Covered	Assignments		
		Schneider	Dann	Graded Assignments
1	* Comp.Theory: Intro. to Computer Theory Computer History * Prog.&Logic: Alice: Intro. to Alice	Chapter 1 * 2-32	Chapter 1	* Assign.#1
2	* Comp.Theory: The Algorithmic Foundations of Computer Science * Prog.&Logic: Alice: Program Design & Implementation	Chapter 2 * 40-74 Chapter 3 * 80-86 (Excludes 3.3.2) * 88-94 (Excludes 3.3.4) * 97 (The Tortoise and Hare) * 106-108 (Binary Search)	Chapter 2	* Assign.#2
3	* Comp.Theory: Boolean Logic and Gates * Prog.&Logic: Alice: Programming: Putting Together the Pieces	Chapter 4 * 130-183	Chapter 3	* Assign.#3
4	* Exam Review * Prog.&Logic: More Alice (Lab 3.2)			
5	* EXAM 1 * Prog.&Logic: Intro. to C++	Chapter 8 * 342-374		* Assign.#4
6	* Comp.Theory: Computer System Organization * Prog.&Logic: C++ (Branching, Looping & Truth)	Chapter 5 * 188-232		* Assign.#5
7	* Comp.Theory: The Virtual Machine Systems Software * Prog.&Logic: Alice: Classes, Objects, Methods and Parameters	Chapter 6 * 240-284	Chapter 4	* Assign.#6
8	* Comp.Theory: Modular Programming Programming Paradigms * Prog.&Logic: Alice: Interaction: Events and Event Handling	Chapter 8 * 375-397	Chapter 5	* Assign.#7
9	* Exam Review * Comp.Theory: Computer Networks The Internet * Prog.&Logic: Alice: Functions and If/Else	Chapter 7 * 290-304	Chapter 6 * 147-170	
10	* EXAM 2 * Technical Writing: The Annotated Bibliography Common Writing Problems Cool Word Processing Features * Comp.Theory:	Chapter 9 * 440-441 (9.3.1) * 441-443 (9.3.2) * 444 (Beyond HTML) * 452 (Simplicity . . .) Chapter 10 * 508 (I Do Not	Chapter 7	* Annotated Bibliography 1 of 2

	HTML * Prog.&Logic: Alice: Repetition: Definite and Indefinite	Understand . . .)		
11	* Comp.Theory: E-Commerce Databases / SQL Information Security * Prog.&Logic: Alice: Repetition: Recursion	Chapter 13 * 586-606 (Excludes 13.4)	Chapter 8	* Assign.#8
12	* Comp.Theory: Artificial Intelligence (Game A.I. vs. Real A.I.) * Prog.&Logic: Rock, Paper, Scissors (Alice & C++)	Chapter 14 * 620-623		* Assign.#9
13	* Technical Writing Re-visited: The Annotated Bibliography Common Writing Problems Cool Word Processing Features * Comp.Theory: Computers and Society * Prog.&Logic: Alice: Lists and List Processing		Chapter 9	* Annotated Bibliography 2 of 2
14	* Exam Review * Prog.&Logic: Alice: Variables and Revisiting Inheritance		Chapter 10	
EXAM	* FINAL EXAM			

Participation, Attendance and Course Policies

1. Missed Classes

You are responsible for the activities covered during each class period. It is your responsibility to contact me with any questions or concerns about the course. If you miss more than two classes, your final grade will be lowered by ten points for each additional class missed. Should you miss more than three classes, you will need to withdraw from the course.

2. Late to Class / Leaving Early from Class

I understand that sometimes being late to class or having to leave class early is unavoidable for personal reasons. Excessively being late or leaving early (more than twice) will have a negative impact on your overall participation grade.

3. Acceptable Use of Computers During Class

Computers are not to be used during lectures and discussions. If labs, quizzes or exams require the use of computers, internet browsing unrelated to covered material is not allowed. **Further, at NO time is the use of any instant messaging program (AIM/Yahoo, etc.) allowed during class time.** Inappropriate use of computers during class will result in a lowered participation grade for that class period. Inappropriate use of computers is distracting to both the student and those around him/her.

4. Use of Cell Phones

Cell phones must be placed in quite or vibrate mode during class and should be used for security purposes only and may not be disruptive to the class in any way.

5. Assignment Submissions / Late Assignments

Assignment submissions are ONLY accepted via WebCT. No Assignment will be accepted via e-mail or in any other manner. Most, but no all, assignments allow a grace period of one week. Assignments related to the final paper do not have a grace period. Any assignment submitted late but within the grace period will be accepted but will receive a 20 point reduction. Submissions outside this grace period will not be accepted.

6. Grades of "Incomplete"

"Incompletes" will only be issued in the event of medical emergencies and at the instructor's discretion.

Methods of Evaluation

Your final grade will be based on a weighted average of the following graded items:

Graded Elements	Weights
Assignments (9) <i>To Include:</i> * Questions * Alice Labs * C++ Labs * Articles	50%
Exam 1	10%
Exam 2	10%
Annotated Bibliographies (2)	10%
Final Exam	10%
Participation <i>To Include:</i> * Discussion * Attendance * Contribution	10%
Total	100%

Grade Calculation

The following scale will be used to determine letter grades:

Grade	Range
A	93+
A-	90-92
B+	87-89
B	83-86
B-	80-82

C+	77-79
C	73-76
C-	70-72
D+	67-69
D	63-66
D-	60-62
F	Below 60

Students With Disabilities

If you believe that you have a disability requiring accommodations in this class, please contact Janine Allo in the Counseling Department, Office of Disability Services, as soon as possible. After you receive your accommodation form, please contact the instructor ASAP to insure all accommodations are implemented in a timely fashion. It is the student's responsibility to seek and secure accommodations prior to the start of a test or project. Accommodations cannot be provided until you supply the instructor with a form from Janine.

For information and forms, please contact:
Janine Allo
Counseling Department, Office of Disability Services
Office: Hauke 007
Phone: (802)865-5484
Email: jallo@champlain.edu

Academic Honesty

In the preparation and presentation of any assigned work-including examinations, tests, quizzes, term papers, reports, themes and other written or oral exercises-every student shall conform to a strict standard of academic honesty. Any attempt to deceive a faculty member or to help another student to do so will be considered a violation of this standard. In all assignments, students must acknowledge the words and/or ideas of others taken from print or electronic media, whether a direct quotation or a paraphrase; any omission of this is dishonest. Cheating on examinations or tests consists of knowingly giving, receiving or using-or attempting to give, receive or use-unauthorized assistance during an examination or test. A faculty member may record a grade of "zero" for any assignment on which a student has plagiarized or cheated. For repeat offenses within a single course, the faculty member may record a grade of "F" for the course. Violations of this policy in multiple courses may result in dismissal from the College. A student may appeal these decisions according to the Academic Grievance Procedure.

Refer to The Student Handbook (The document formerly known as The Rudder) for more information regarding this policy and associated procedures that apply. Additionally, the use of TurnItIn (www.turnitin.com) will be used to evaluate student work.