1 Course Information & Guidelines

2 Professor and Teaching Assistant (TA)

Course: CISC 105: General Computer Science
Semester: Fall 1998

Professor: TA:
Office: Office:
Phone: Phone:
Hours: Hours:
Email: Email:

3 Overview

CISC105: General Computer Science is primarily an introductory computer programming course designed for two groups of students: (1) mathematically-oriented non-CISC majors, and (2) CISC or potential CISC majors without significant programming experience. CISC105 assumes no prior programming knowledge.

The following are good reasons to take CISC105:

- You are a CISC major without significant prior computer programming experience which is prerequisite for CISC 181: Intro to Computer Science.
- You want to become a CISC major and need CISC105 and CISC181 before your Change of Major Request will be considered by the CISC Department.
- You want to learn about:
  - Design and implementation of small to medium sized programs in C, including compilation, testing, debugging and execution of these programs.
  - Principles of software engineering including naming conventions, program structure, and methodology.
  - Familiarity with the Unix Operating System for a variety of purposes including the creation, editing, transfer and printing of files.
  - Use of the “X” window-based user interface.
  - Use of local network and Internet resources.
  - Basic ideas of computer science including program and data structures, file management, computer hardware components, and algorithm development and analysis.

The following are bad reasons to take CISC105:

- You could not get into CISC101. (Try ACCT160, FREC135, EGTE111, HPER276.)
- You need a group D requirement, and want to learn about computers.
- You need a course that will not require much time outside of class.

CISC105 is not a course in word processing. CISC105 is not a course that teaches canned commercial software packages, such as EXCEL spreadsheets, ACCESS databases, and POWERPOINT...
presentations. General computing concepts, terminology, and popular office software is covered in CISC101: Computers and Information Systems.

CISC105 emphasizes programming. Programming is a difficult and time-consuming task.

4 Class Meetings and Attendance

Each week consists of two lecture classes and one lab class. Students are required to attend all lectures and lab classes. **Warning:** Poor attendance almost always results in poor performance.

5 Texts and Readings

- *CISC105 Laboratory Manual - Sections 011-013, Fall 1998*
- *Intro to UNIX, UD Computer Network Services (CNS) User Services, (latest edition)*

6 Programming Environment and Computer Usage

The C language is available on a group of computers named Strauss, Bach, Brahms, and Chopin. They are referred to as the “Composer” machines. You will primarily use Strauss for all programming in CISC105. Strauss is a multiprocessor computer manufactured by Sun Microsystems running the Solaris Unix operating system. Primary access to Strauss is obtained via X-terminals located at various computing sites on the Newark campus and elsewhere. Additionally, dial-up access is available as described in Appendix C of the Intro to Unix handbook. For information about these computers and other University computing resources, contact the Computer Network Services (CNS) Consulting Desk, 002 Smith Hall, 831-1205.

**Note:** You cannot do your C work on Copland.

7 Obtaining an Account - What YOU Must do NOW

To participate in the first lab class, you must have a valid university account. If you do not, then you must:

1. Go to one of the computing sites or log on from any terminal at which you can obtain a strauss window, and take the Electronic Community Citizenship Examination (ECCE) interactively. You can obtain the instructions for the ECCE and a copy of the Responsible Computing Manual from any university computing site. You need to take the ECCE repeatedly until you pass it.

2. Immediately after you pass the ECCE, go obtain a password from the computing security office, in either Smith Hall basement, Student Services, or Harrington Hall. Be sure to have your student id card. Your account will be activated overnight after you obtain a password. To
insure that you can get onto your account during lab class, you MUST pass the ECCE and obtain your password by the day BEFORE your lab class.

8 Requirements and Grading

In determining your final grade, exams and assignments are weighted as follows:

- 25% Midterm Thursday Nov. 5, 4-6pm (required)
- 25% Final Exam
- 50% Lab, Homework, and Programming Assignments

The final course grade is related to your earned percentage \( g \), as indicated in the following table. The Professor reserves the right to lower these grade boundaries in order to curve class grades upward. Class grades will never be curved downwards.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Condition</th>
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<tbody>
<tr>
<td>A</td>
<td>93 ( \leq g ) &lt; 90</td>
</tr>
<tr>
<td>A-</td>
<td>90 ( \leq g ) &lt; 87</td>
</tr>
<tr>
<td>B+</td>
<td>87 ( \leq g ) &lt; 83</td>
</tr>
<tr>
<td>B</td>
<td>83 ( \leq g ) &lt; 77</td>
</tr>
<tr>
<td>B-</td>
<td>77 ( \leq g ) &lt; 73</td>
</tr>
<tr>
<td>C+</td>
<td>73 ( \leq g ) &lt; 70</td>
</tr>
<tr>
<td>C</td>
<td>70 ( \leq g ) &lt; 67</td>
</tr>
<tr>
<td>C-</td>
<td>67 ( \leq g ) &lt; 63</td>
</tr>
<tr>
<td>D+</td>
<td>63 ( \leq g ) &lt; 60</td>
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<tr>
<td>D</td>
<td>60 ( \leq g ) &lt; 57</td>
</tr>
<tr>
<td>D-</td>
<td>57 ( \leq g ) &lt; 50</td>
</tr>
<tr>
<td>F</td>
<td>[ g \leq 50 ]</td>
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</tbody>
</table>

Special considerations may have a positive effect on final grades. These include class participation, a pattern of grade improvement, an isolated bad grade, etc. Such considerations will never have a negative effect on the final grade.

Occasionally, mistakes occur in grading. After a graded item is returned, students have two weeks to submit a request to have it regraded. These requests should be submitted directly to the Professor. After two weeks, no requests for grade changes will be considered. The request for regrading should include the original exam or assignment, and the reason that regrading is requested.

9 Graded Assignments

There are three categories of assignments: Labs, Homeworks, and Programming. Labs and Homeworks are described later in this Laboratory Manual. Programming assignments will be made available during the semester.
9.1 Lab Assignments

Lab assignments will be started (and in some cases completed) during the scheduled lab classes. Normally each lab assignment is due by the **beginning of your next lab class**. Most labs involve writing or modifying C programs. Each lab focuses on a particular concept discussed in the text or in lecture, and helps you to complete the programming assignments.

9.2 Homework Assignments

Homeworks normally consist of pencil-and-paper exercises designed to give you practice in applying information covered in the textbook and lectures. Homeworks usually do not require the use of a computer, although students can often check their answers on the computer. Homeworks will be handed out with the lab material, and are due at the **beginning of your next lab class**.

9.3 Programming Assignments

Programming assignments consist of applying several of the concepts from several labs and lectures. Students must write their own computer programs that need to be compiled, tested, and debugged on the Strauss computer. There will be 3 programming assignments.

You will be given about 2-3 weeks to complete each programming assignment. Program grades are based on: program design, correct execution, proper program comments, properly formatted output, and proper program style. While working on a program, you may consult with the professor, TA, classmates, friends, etc., but the actual programming that you hand in **must** be your own work.

9.4 Extra Credit

Many assignments will include an opportunity for extra credit. Extra credit is optional, i.e., students can earn an A grade in the course without doing any extra credit. Extra credit on programming assignments provides students with an opportunity to gain greater programming skill and to learn more advanced material while at the same time improving their course grade. CISC majors and potential CISC majors are encouraged to do the extra credit assignments to facilitate transition into the higher level CISC courses.

9.5 Late Submission of Assignments

An assignment’s due date will be clearly specified when the assignment is made. Do not miss class or lab in order to complete an assignment. Late assignments will be penalized unless an extension is granted by the Professor. Only the Professor (not the TA) may grant an extension for an assignment.

The philosophy on late assignments is: (1) Everyone should try their best to complete all assignments by the due date. (2) People who work conscientiously to meet deadlines should be rewarded for their promptness and sacrifice of sleep. Thus, allowing others to hand in late assignments without some penalty is unfair to these people. However, there are various circumstances that may prevent a student from completing an assignment on time. Allowing no late assignments would not give students much incentive to eventually complete their work, which is a major source of learning. Thus, I believe that late assignments are better than no assignment.
Late assignments will be penalized 5% per 24 hour period or fraction thereof, not including weekends up to 25%. For example, if your lab class meets Thursday at 10am, and you submit the assignment late on Monday at 11am, then the penalty is 10%. Late assignments will be accepted with penalty up to one week following the due date. **Assignments submitted more than one week late without an approved extension will not be accepted.**

It is best to submit late assignments directly to the Professor’s mailbox in 103 Smith Hall, or the Professor’s office. An assignment is considered turned in when it is physically received by the TA or professor or placed in their mailbox, not when it is printed by the computer. Please write the date and time on the late assignment just prior to submitting it.

Note: Extra credit work cannot be handed in late.

10 Exams

There will be one midterm exam and a final exam. Each exam is a closed book, in-class. The final exam is comprehensive.

If an exam is missed because of an absence that has been excused by the Professor, arrangements will be made either to take a make-up or to increase the weighting of the other exam, according to the Professor’s choice. If the absence is not excused, it cannot be taken later, and a grade of 0 will be included in the computation of the final grade.

11 Academic Honesty

For many students, this is the first time you will be programming a computer and the first time you will be “debugging” computer programs. Hence, you need to learn what is allowed behavior and what is not. When your program does not work, the first thing to do is use your book and notes to try and figure out the problem yourself. The second and third things to do are to try to figure out the problem yourself! At that point, you may ask for the assistance of a consultant, TA, Professor, classmate or friend to help you understand the specific problem.

You may also discuss in general terms the general approach to solving a programming problem. Once the discussion gets down to specific programming issues such as names and types of variables to use, control structures such as loops, if-then-else statements, you must end any collaboration.

Specifically, you may not:

- Compare answers to any assignment before it has been turned in.
- Supervise a classmate typing in a program, or have a classmate supervise you typing in a program
- Copy, or allow another student to copy, a computer file that contains another student’s assignment, and submit it, in part or in its entirety, as your own.
- Work together on an assignment, sharing the computer files and programs involved, and then submit copies of the assignment as one’s own individual work.
- Edit a script file, and then submit it as an original transcript of your computer session.

Any evidence of performing any form of academic misconduct will be appropriately handled as stated in the Official Student Handbook of the University of Delaware. If you are in doubt whether or not a behavior is permitted, then ask the Professor or TA beforehand. If you are having difficulty with the course, then see the Professor or TAs for help.