

CSCI N305 C Programming

Credit Hours: 3

Instructor: Lingma Acheson (linglu@iupui.edu)

Office Hour: Tuesday/Thursday, 9:00am – 11:00pm, by appointment

Open Lab: Tuesdays 6:00pm - 7:30pm, SL247

Course web page: <http://www.cs.iupui.edu/~n305/>

Description:

The basics of computer programming concepts using the C programming language. Emphasis on problem solving and algorithm implementation using a universal subset of the C programming language. Lecture and laboratory.

CSCI N305 and IUPUI Principles of Undergraduate Learning:

The following [Principles of Undergraduate Learning](#) are reflected in CSCI N305:

- Core Communication and Quantitative Skills
- Critical Thinking
- Integration and Application of Knowledge
- Intellectual Depth, Breadth, and Adaptiveness
- Understanding Society and Culture
- Values and Ethics

Textbook:

- *C How to program*, 6th edition, by Deitel and Deitel. (<http://www.deitel.com>), Prentice Hall.
- C language reference: Google "C Language Reference" to find internet references such as the [The C Library Reference Guide](#).

Prerequisites:

Prior programming experience is not required for N305. Some math skills are required including exponentiation, scientific notation and units conversions.

Mail in OnCourse:

- Oncourse mail is the primary mechanism for communicating among students in the class and with the instructor.
- During the semester, critical announcements will be sent to the Oncourse mail with the Send to Email option.
- Everyone should check their Oncourse mail regularly.
- *Questions, concerns, discussions and answers regarding the materials covered in this class should ONLY be discussed in Oncourse.*

Assignments and Grading Policy:

- **Projects:** 40% (All projects are weighted by the number of points assigned)
- **Exams:** 40% (Exam 1 - 10%, Exam 2 - 10%, Exam 3 - 10%, Exam 4 - 10%)
- **Homework Assignments:** 15% (All assignments weighted by the number of points assigned)
- **Class Participation:** 5% (Computer Science in the Real World Paper)

Grading Scale:

> 95% A+	95% - 90% A	89% - 87% A-	86% - 83% B+
82% - 80% B	79% - 77% B-	76% - 73% C+	72% - 70% C
69% - 67% C-	66% - 63% D+	62% - 60% D	59% - 0% F

Projects and Homework Assignments:

1. A total of 7 projects and 5 homework assignments will be assigned throughout the semester. The due dates for these projects are posted on the course web site and the Oncourse Calendar.
2. Projects and assignments are to be submitted via the Assignments section on Oncourse by 11:00pm on its due date. All assignments must work on pegasus.cs.iupui.edu (under the Linux operating system).
3. Late submission will be accepted within one week after the due date, however, will result in a 10% penalty of the credit earned for each day that is late. E.g. If the due date is February 7th, and you submit on February 9th, and if you get 90 points out of 100, the actual score for the project will be $90 - 90 * 20\% = 72$.
4. It is highly recommended that you give yourself plenty of time to upload projects. Even if you are only a minute or two late, you will still be considered late. There are only 3 exceptions to this policy:
 - a. Severe illness verified by a doctor's note
 - b. Death in the family verified by an obituary
 - c. Undocumented system-wide Oncourse outage for more than 30 minutes before the time due


If you cannot submit a project in time caused by any of the exceptions, you must notify the instructor within 24 hours after the time due, and resubmit within 3 days after the time due. You will not be penalized for this.

Exams:

1. There are four exams for the semester. Each exam will be open for 24 hours. The open days are posted on the course web site and Oncourse calendar. Once you start an exam, you have 75 minutes to complete the exam.
2. There will be no make-up exams. It is highly recommended that you give yourself plenty of time to take exams. You will not be able to take the exam once an exam is closed. There are only 3 exceptions to this policy:
 - a. Severe illness verified by a doctor's note
 - b. Death in the family verified by an obituary
 - c. Undocumented system-wide Oncourse outage for more than 24 hours during the exam open days.

If you cannot take or finish an exam caused by any of the exceptions, you must notify the instructor within 24 hours after the exam is closed, and work out a schedule to take the exam within 2 days after the exam is closed.

Steaming Media Lectures:

The course delivers lecture content through streaming media by clicking on the  icon on the course web page. You will need RealPlayer or Real Alternative to view these video lectures. If you encounter any problems, you can visit http://www.codecguide.com/download_real.htm.

First time to log on CS Linux system – pegasus.cs.iupui.edu:

1. The hostname of Pegasus is: pegasus.cs.iupui.edu.
2. Your user id and initial password on Pegasus are as Oncourse.
3. Pegasus only accepts secured connections through a SSH client such as PuTTY. You must install PuTTY or some other SSH client before connecting to pegasus and to transfer files. FTP does not work. PuTTY is available through <http://iuware.iupui.edu>.
4. Remote development should be conducted using pegasus.
5. Passwords and home directory are shared between laboratory workstations and pegasus. Use your pegasus password to login to laboratory workstations.

Cooperation-Plagiarism Policy:

1. Students are encouraged to discuss the concepts and principles amongst themselves. Such discussions help in understanding the material and/or different aspects of the topics taught in the class. Students may also assist in debugging each other's code. It is unethical to directly transfer any portion of individual work products, either by printed or electronic means, between students. *Student cooperation should not result in identical or near identical*

answers/code/documentation. ALL THE MATERIAL SUBMITTED FOR GRADING MUST BE YOUR OWN EFFORT. If this policy is violated then the following steps may be taken: (1) rejection of submitted material with an opportunity for resubmission for a reduced grade, (2) reduction of points by dividing by the number of students involved in an incident, (3) assignment of a grade of ZERO for all students involved in an incident, (4) assignment of a grade of F for the course, and (5) initiation of official action against all students involved in an incident.

2. **Internet use warning:** The Computer Science department is particularly sensitive to dishonesty leveraging the internet. Presenting information obtained from the internet as your own is just as severe presenting information obtained from another student as your own. It is extremely important to cite works from the internet that are the basis for your own work. Your internet research should not result in work products that are in identical or near identical to the original. Posting any part of the course including homework, exams, or projects is forbidden. Submitting any part of the course to code-for-hire or other support web sites is forbidden. Accessing any online chat, user forum, IRC, or any other interactive discussions during online testing is prohibited.

Please feel free to contact the instructor for any questions or problems. Enjoy the class!