

|                        |  |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
|------------------------|--|------------------------|----------------------|---------------|-----------|---------------|---------|---------------|-------------|------------|--------------|-------------------------|------|-------|----------------------|------|
| Instructor:            | Patrick Troy   |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Office:                | 919 SEO  |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Phone:                 | (312) 996-8521   |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Email:                 | troy AT uic DOT edu  |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Office Hours:          | 10:00 – 1:00 Friday,<br>or by appointment  |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Lecture Times:         | 12:00 – 12:50 M                    304 SH<br>11:00 - 12:15 T,Th                304 SH                    Call #: 10641   |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Texts:                 | <ul style="list-style-type: none"> <li>• <u>Foundations of Computer Science C Edition</u>, by Aho &amp; Ullman, W.F. Freeman Publ, ISBN: 1-7167-8284-7</li> </ul>  |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Assignments:           | <table> <tr> <td>Programming Projects ,</td> <td>(About 5 Projects, 5</td> <td>50 %</td> </tr> <tr> <td>Homeworks</td> <td>Homeworks)</td> <td></td> </tr> <tr> <td>Quizzes</td> <td>(About 2-3)</td> <td>20 %</td> </tr> <tr> <td>Midterm Exam</td> <td>Th: 10/16/14 in lecture</td> <td>15 %</td> </tr> <tr> <td>Final</td> <td>TBA: Tues 12/9 @ 8am</td> <td>15 %</td> </tr> </table> | Programming Projects , | (About 5 Projects, 5 | 50 %          | Homeworks | Homeworks)    |         | Quizzes       | (About 2-3) | 20 %       | Midterm Exam | Th: 10/16/14 in lecture | 15 % | Final | TBA: Tues 12/9 @ 8am | 15 % |
| Programming Projects , | (About 5 Projects, 5   | 50 %                   |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Homeworks              | Homeworks)   |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Quizzes                | (About 2-3)  | 20 %                   |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Midterm Exam           | Th: 10/16/14 in lecture  | 15 %                   |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Final                  | TBA: Tues 12/9 @ 8am   | 15 %                   |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Grading:               | <table> <tr> <td>100% - 90.0%</td> <td>Grade A</td> </tr> <tr> <td>89.9% - 80.0%</td> <td>Grade B</td> </tr> <tr> <td>79.9% - 70.0%</td> <td>Grade C</td> </tr> <tr> <td>69.9% - 60.0%</td> <td>Grade D</td> </tr> <tr> <td>59.9% - 0%</td> <td>Grade F</td> </tr> </table>  | 100% - 90.0%           | Grade A              | 89.9% - 80.0% | Grade B   | 79.9% - 70.0% | Grade C | 69.9% - 60.0% | Grade D     | 59.9% - 0% | Grade F      |                         |      |       |                      |      |
| 100% - 90.0%           | Grade A  |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| 89.9% - 80.0%          | Grade B  |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| 79.9% - 70.0%          | Grade C  |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| 69.9% - 60.0%          | Grade D  |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| 59.9% - 0%             | Grade F  |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| URL:                   | <a href="http://www.cs.uic.edu/CS201">http://www.cs.uic.edu/CS201</a>  |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Prerequisite:          | Math 180; and a grade of C or better in (CS 102 or CS 107)   |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |
| Catalog Description:   | Lists, stacks, queues, sets, hash tables, introduction to trees and graphs. Algorithm correctness and complexity, inductive proofs, logic. Programming projects.   |                        |                      |               |           |               |         |               |             |            |              |                         |      |       |                      |      |

If you have any questions regarding how any assignment or test is graded and you think that you deserve more points than you received, you must see the instructor about this within one week of the time the assignment is first returned to the class. No claims, justifiable or not, will be considered after this dead line.

Attendance at class is up to the discretion of each student; however, each student is responsible for all information (notes, hand-outs, announcements, etc.) covered during class. You should ask fellow classmates for missed information, not the instructor or the TA.

No "extra" work is allowed to make up for poor performance. Any student caught cheating will receive an F in the course, and face possible dismissal from the University. Students are advised that it is a violation to copy, or allow another to copy, all or part of an exam or program. No incompletes will be given for poor performance in the course. We will be using MOSS to electronically monitor all program submissions.

The prerequisite for this course should have covered basic programming concepts. This course uses C but if your prereq used another language, you just have some C syntax to learn. All programming projects must be written in good programming style.

Because of SPAM, when sending email please include "CS 201" in the subject.

Programming Projects will be accepted late with the following penalties.

- One Day Late: 10% Penalty
- Two Days Late: 20% Penalty
- Three Days Late: 40% Penalty
- Four Days Late: 80% Penalty
- Five Days Late: 160% Penalty (I.E. A grade of zero will be given.)

This only applies to Programming Projects.

### Schedule

The schedule shown below should be considered a working list and will likely change.

|           | <b>Week</b> | <b>Topic</b>                          | <b>Chapter in Texts</b>   |
|-----------|-------------|---------------------------------------|---|
| <b>1</b>  | 8/25        | C Programming and Pointers            | Chapter 1   |
| <b>2</b>  | 9/1         | C Structures and Lists                | Chapter 6   |
| <b>3</b>  | 9/8         | Data Structures - Stacks & Queues     | Chapter 6   |
| <b>4</b>  | 9/15        | Logic and Proofs                      | Chapter 2   |
| <b>5</b>  | 9/22        | Induction                             | Chapter 2   |
| <b>6</b>  | 9/29        | Linked Lists                          | Chapter 6   |
| <b>7</b>  | 10/6        | Algorithm Analysis                    | Chapter 3   |
| <b>8</b>  | 10/13       | Algorithm Analysis, Midterm on Thurs. | Chapter 3   |
| <b>9</b>  | 10/20       | Recursion                             | Chapter 2   |
| <b>10</b> | 10/27       | Sets                                  | Chapter 7   |
| <b>11</b> | 11/3        | Hashing and Hash Tables               | Chapter 7   |
| <b>12</b> | 11/10       | Propositional Logic                   | Chapter 12  |
| <b>13</b> | 11/17       | Propositional Logic                   | Chapter 12  |
| <b>14</b> | 11/24       | Predicate Logic                       | Chapter 14  |
| <b>15</b> | 12/1        | Trees and Graphs                      | Chapter 5 & 7   |
| <b>16</b> | 12/8        | Final Exam                            | Final tentatively scheduled for Tuesday, December 9 <sup>th</sup> from 8-10am |