**Schedule of Class Topics**

**CSE 2315 - 002 Summer 2018**

**Dr. Tiernan’s section**

NOTE: the schedule of future lecture topics is tentative and subject to change.

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. – Dr. Tiernan

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| Lecture | Topic | Book Reading | Assignments\*\* |  |
| 1 | Introduction; Course syllabus and introduction to the class. Logic overview | Chapters 1.1 |  | June 5 |
| 2 | Statements and Symbolic Representation; Propositional Logic | Chapter 1.2 |  | J 7 |
| 3 | Quantifiers, Predicates Validity | Chapter 1.3 |  | J 12 |
| 4 | Predicate Logic | Chapter 2.1 | HW #1 due\*\* | J 14 |
| 5 | Induction, Recursion | Chapter 2.2 |  | J 19 |
| 6 | Recursion, Recurrence Relations ; *CENSUS DATE* | Ch. 3.1, 3.2 |  | J 21 |
| 7 | Counting, Permutations and Combinations | Ch. 4.2, 4.3 |  | J 26 |
| 8 | Permutations and Combinations | Chapter 4.4 | HW #2 due\*\* | J 28 |
| 9 | **Midterm.** \*\* |  |  | July 3 |
| 10 | Relations & Topological Sorting | Ch. 5.1, 5.2 |  | Jl 5 |
| 11 | Relations and Functions | Ch. 5.4, 5.5 |  | Jl 10 |
| 12 | Orders of Magnitude, Matrices | Chapter 5.5 | HW #3 due\*\* | Jl 12 |
| 13 | Matrices, Graphs | Chapter 6.1 |  | Jl 17 |
| 14 | Trees | Chapter 6.2 |  | Jl 19 |
| 15 | Directed Graphs ; *LAST DAY TO DROP* | Chapter 7.1 |  | Jl 24 |
| 16 | Path Problems | Ch. 7.2, 7.3 | HW #4 due\*\* | Jl 26 |
| 17 | Graph Traversal | Chapter 7.4 |  | Jl 31 |
| 18 | Boolean Algebra | Chapter 8.1 |  | August 2 |
| 19 | Boolean Algebra | Chapter 8.1 |  | A 7 |
| 20 | Additional Topics; Last class day | various | HW #5 due\*\* | A 9 |
|  | **Final Exam**  Dates for ALL final exams are given online at <http://www.uta.edu/records/calendars/final-exams.php> |  |  | A 14 |

\*\*Planned Assignments and Tests Schedule – All dates are tentative on the schedule

Assignments will be due approximately bi-weekly. Each assignment will have the ACTUAL due date on the assignment.