Miss Cait

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Computer Science/Engineering (9th) Syllabus

A: 90-100

B: 80-89

C: 70-79

D: 60-69

F: Below 60

Assignments will fall within this timeline. Each unit will have cumulative exam which will be weighted more than daily assignments. Assignments will be posted online and with prior announcement. Projects will completed with pair programming. However, this outline is subject to change.

*Computer Science*

Week 1: Introductions, Classroom regulations

Week 2: Computer History/basics, Binary Bracelets

8/23 intro quiz

Week 3-4: Python basics, numeric data, functions, variables

9/13-Quiz 1

Week 5: Lists, For-loops

9/20-Quiz 2

Week 6: Nested Lists

9/20-Quiz 3

Week 7: If-else/While statements, Booleans

9/27-Quiz 4

Week 8: Functions with parameters, return statements

10/4-Quiz 5

Week 9: Strings, File I/O, with-statement, algorithms, try-except

10/11-Quiz 6

Week 10: Dictionaries, Algorithm design

10/17-Quiz 7

Week 11-12: Recursion

11/1-Quiz 8

Week 13-14: Object Oriented Programming

11/15-Quiz 9

Week 15-17: Cryptology

11/22: Quiz 10 – Classical Ciphers (Chp. 1)

12/6: Quiz 11 – Number Theory (Chp. 5)

12/13: Quiz 12 – Enigma Machine

Week 18: Final Project

*Engineering* – Daily activities, projects and problems make up grades with a cumulative final exam, design challenges

Week 19-20: Unit 1 Design Process, Name tag

Week 21-22: Unit 2 Technical Drawing and Sketching

Week 23-24: Unit 3 Measurements and Statistics

Week 25-26: Unit 4 Modeling Skills

Week 27-28: Unit 5 Geometry of Design

Week 29-30: Unit 6 Reverse Engineering

Week 31-32: Unit 7 Documentation

Week 33-34: Unit 8 Advanced Computer Modeling

Week 35-36: Unit 9 & 10 Design Team and Challenges

Week 37: Final Exam