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College of Engineering & Computer Science

Spring 2013

CS 2200-01: Discrete Structures and their Algorithms

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Course Syllabus Guidelines

CS 2200-01

Pascal Hitzler

I. College/School/Department – Teacher

College of Engineering and Computer Science

Department of Computer Science and Engineering

Prof. Pascal Hitzler, 389 Joshi

pascal@pascal-hitzler.de; office hours: Tuesdays 4pm to 5pm

II. Course Information

Course Title: Discrete Structures and Their Algorithms

Course Abbreviation and Number: DStruc

Course Cross Listing(s) Abbreviation and Number:

Check ("x") all applicable:

General Education Course _____ Writing Intensive Course _____ Service Learning Course _____

Laboratory Course x Ohio TAG (Transfer Assurance Guide) Course _____

Ohio Transfer Module Course _____ Others (specify) _____

III. Course Registration

Prerequisites: MPL 5 or course Introduction to Discrete Structures

IV. Student Learning Outcomes

- Working knowledge about discrete structures as relevant for computer science
- Understanding of the concepts of rigorous proof and formal argumentation

V. Suggested Course Materials (required and recommended)

Required textbook: Susanna S. Epp, Discrete Mathematics with Applications. Brooks/Cole, 4th edition, 2011.

VI. Suggested Method of Instruction: Lecture + Recitations

VII. Suggested Evaluation and Policy

Weekly homework: 50% score required to qualify for participation in final exam.

Two exams during term (30% each), final exam (40%) towards class grade.

VIII. Suggested Grading Policy

Grading will follow a standard scale (A: 100-90, B: 89-80, C: 79-70, D: 69-60, F: 59-0)

IX. Course Outline

- 1 Sets
- 2 Propositional Logic
- 3 Relations and Functions
- 4 Natural Induction
- 5 Combinations and Permutations

X. Further Particulars

Physical presence required in recitation sessions.

Students signed up for the distance learning section 90 may visit the classes of section 01, are also required to physically attend the recitation sessions, and are required to attend the mid-term and final exams of section 01.

There will be no make-up exams other than for documented emergencies.