

CS3305 - Discrete Mathematics for Computing II

[CS 3305](#) Discrete Mathematics for Computing II (3 semester credit hours) Advanced counting methods; recurrence relations, divide and conquer algorithms, principle of inclusion and exclusion. Partial orders and lattices, Algorithmic complexity. Graph theory. Strings and languages. Number theory. Elements of modern algebra. Credit cannot be received for both courses, [CS 3305](#) and [SE 3306](#). Double majors are required to take [CS 3305](#). Prerequisites: ([CE 2305](#) or [CS 2305](#)) with a grade of C or better, and ([MATH 2414](#) or [MATH 2419](#)). (3-0) S