| Professor Fine LARTS-396E 910-6905 dfine@umassd.edu | MTH182 Syllabus | Spring 2025 |
|--|--|--------------------------|
| | with Applications (5th ed.) S. Epp |) |
| | | |
| Week of 1/20: Introduction Review of recurre | nce relations & weak induction | [5.1 - 5.3, 5.6, 5.7] |
| Week of $1/27$: | | |
| Add/Drop/Audit Strong induction Integers: Divisibil | deadline is Tuesday | [5.4, 5.9] [4.4] |
| Week of 2/3: Primes Exam I | | [4.4, 4.8] |
| Week of 2/10: The quotient/rem | ainder theorem (division algorith | m) [4.5] |
| Week of $2/17$: | | |
| - | No class Tuesday divisor & least common multiple gorithm | [4.10] |
| Week of $2/24$: | | |
| Pass/Fail deadlin The Fundamental Cryptography | e is Wednesday Theorem of Arithmetic | [4.4, 5.4, 8.4] [8.4] |
| Week of 3/3: Integers in arbitra Exam II | ary bases | [2.5] |

Week of 3/10: Spring Break

Week of 3/17: Relations [8.1][8.2, 8.3]Equivalence relations & equivalence classes Congruence & arithmetic modulo nWeek of 3/24: [7.1 - 7.3]Functions Week of 3/31: Bijective functions Week of 4/7: Cardinality of sets [7.4]Exam III Withdrawal deadline is Friday Week of 4/14: Patriots' Day Class does meet on Tuesday Algorithms [11.2]Growth of functions Week of 4/21: Analysis of algorithms [11.3, 11.5]

Week of 4/28:

Exam IV

Last class is Tuesday