

### Weekly Schedule (Math F151X) – Fall 2025 (UAF)

| Week # | Dates       | Material Covered and Exam Schedule   |
|--------|-------------|--|
| 1      | 8/25–8/29   | Welcome/Introduction/Course Introduction<br><b>Brief review:</b> Real Numbers and Algebraic Expressions, Properties of Exponents and Radicals, Rational Expressions, Linear Equations in One Variable, Linear Inequalities in One Variable, Polynomial and Polynomial – Like Equations, Rational and Radical Equations<br>Section 1.1: Coordinates and Graphs (1.1.1 – 1.1.10) |
| 2      | 9/1–9/5     | Section 1.2: Lines (1.2.1 – 1.2.6, 1.2.8, 1.2.9)<br>Section 1.4: Functions (1.4.1 – 1.4.4)   |
| 3      | 9/8–9/12    | Section 1.4: Functions (1.4.5 – 1.4.7)<br>Section 1.5: Graphs of Functions (1.5.1 – 1.5.4)   |
| 4      | 9/15–9/19   | Section 1.5: Graphs of Functions (1.5.5 – 1.5.10)<br>Section 1.6: Transformations of Functions (1.6.1 – 1.6.4)   |
| 5      | 9/22–9/26   | Section 1.7: Combining Functions (1.7.1 – 1.7.6)<br><b>Exam 1:</b> Friday<br>Is Wednesday a holiday?   |
| 6      | 9/29–10/3   | Section 1.8: Inverse Functions (1.8.1 – 1.8.5)<br>Section 2.1: Quadratic Functions (2.1.1 – 2.1.9)   |
| 7      | 10/6–10/10  | Section 2.2: Polynomial Functions (2.2.1 – 2.2.5)<br>Section 2.3: Dividing Polynomials (2.3.1, 2.3.3, 2.3.4)   |
| 8      | 10/13–10/17 | Section 2.4: Real Zeros (2.4.1 – 2.4.5)<br>Section 2.5: Complex and the Fundamental Theorem of Algebra (intro. & 2.5.5)  |
| 9      | 10/20–10/24 | Section 3.1: Rational Functions (3.1.1 - 3.1.6)<br>Section 3.2 – Section 3.4<br><b>Exam 2:</b> Friday  |
| 10     | 10/27–10/31 | Section 4.1: Exponential Functions (4.1.1 – 4.1.4, 4.1.7, 4.1.8)   |

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|    |             | Section 4.2: Logarithmic Functions (4.2.1 – 4.2.10)  |
| 11 | 11/3–11/7   | Section 4.3: Properties of Log (4.3.1 – 4.3.4)<br>Section 4.4: Exponential and Logarithmic Equations (4.4.1 – 4.4.7)   |
| 12 | 11/10–11/14 | Section 4.5: Exponential and Logarithmic Models (4.5.1 – 4.5.6)<br>Section 8.1: Systems of Equations (8.1.1 – 8.1.7)<br><b>Exam 3: Friday</b>                      |
| 13 | 11/17–11/21 | Section 8.2: Nonlinear Systems (8.2.1 – 8.2.5)<br>Section 8.3: Modeling with Systems (8.3.1 – 8.3.5)<br>Section 8.4: Multivariable Linear Systems (8.4.1 – 8.4.6)  |
| 14 | 11/24–11/28 | <b>Thanks giving Break</b>   |
| 15 | 12/1–12/5   | Section 11.1: sequence and Series (11.1.1 – 11.1.4)<br>Section 11.2: Arithmetic Sequences (11.2.1 – 11.2.4)<br>Section 11.3: Geometric Sequences (11.3.1 – 11.3.4) |
| 16 | 12/8–12/12  | Revision<br><b>Final Exam</b>  |

