KING FAHD UNIVERSITY OF PETROLEUM & MINERALS College of General Studies, Prep-Year Math Program SYLLABUS MATH001 – TERM 251

| Week | Date | Sec. | Topic |
|---|-------------------|------------|---|
| 1 | Aug 24 - Aug. 28 | Review | Review of Some Arithmetic Operations |
| | | P.2 | Real Numbers |
| 2 | Aug. 31 - Sep. 04 | P.2 | Real Numbers (Continue) |
| | | P.3 | Integer Exponents and Scientific Notation |
| 3 | Sep. 07 - Sep. 11 | P.4 | Rational Exponents and Radicals |
| | | P.5 | Algebraic Expressions |
| 4 | Sep. 14 - Sep. 18 | P.6 | Factoring |
| | | P.7 | Rational Expressions |
| 5 | Sep. 21 - Sep. 25 | P.8 | Solving Basic Equations |
| | | | SAUDI NATIONAL HOLIDAY: 23 September 2023 |
| | | 1.1 | The Coordinate plane |
| MAJOR EXAM I: SUNDAY, 28 TH SEPTEMBER 2025 [P.2 – P.8] | | | |
| 6 | Sep. 28 - Oct. 02 | 1.2 | Graphs of Equations in Two Variables; Circles |
| | | 1.3 | Lines |
| 7 | Oct. 05 - Oct. 09 | 1.4 | Solving Quadratic Equations |
| | | 1.5 | Complex Numbers |
| 8 | Oct. 12 - Oct. 16 | 1.6 | Solving Other Types of Equations |
| | | 1.7 | Solving Inequalities |
| 9 | Oct. 19 - Oct. 23 | 1.8 | Solving Absolute Value Equations and Inequalities |
| | | 2.1 | Functions |
| M I D – T E R M V A C A T I O N: 26 TH – 30 TH October 2025 | | | |
| 10 | Nov. 02 - Nov. 06 | 2.2 2.3 | Graphs of Functions; Getting Information from the Graph of a Function |
| | | 2.5 | Linear Functions |
| | MAJOR | | <u></u> |
| | MAJOR | | Transformations of Functions |
| 11 | Nov. 09 - Nov. 13 | 2.6 | |
| | | 2.7 | Combining Functions |
| 12 | Nov. 16 - Nov. 20 | 3.1 | Quadratic Functions Dividing Polymographs |
| | | 3.4 | Dividing Polynomials Real Zeros of Polynomials |
| 13 14 | Nov. 23 - Nov. 27 | | Real Zeros of Polynomials |
| | | 3.2 | Polynomial Functions and Their Graphs |
| | | 3.2 | Polynomial Functions and Their Graphs (<i>Continue</i>) Complex Zeros and the Fundamental Theorem of Algebra |
| 15 | Dec. 07 - Dec. 11 | 3.6 | Rational Functions |
| | | 3.0 | Final Exam Review |
| 16 | Dec. 14 | | Final Exam Review |
| | | | |
| FINAL EXAM: TO BE ANNOUNCED [P.2-3.6] | | | |