## Math 116 - DVDs

There are DVDs to accompany *College Algebra: A Graphing Approach, fourth edition* on reserve in the Kitty Lindsay Learning Resources Center (LRC). You must watch these videos in the LRC, you may not check them out.

The table below provides a guideline to let you know which DVD corresponds to each section and how long (in minutes) the lesson is.

| Section | DVD | Length | Title |
|---|---|---|---|
| P.1 | 1 | 31 | Real Numbers |
| P.2 | 1 | 46 | Exponents and Radicals |
| P.3 | 1 | 35 | Polynomials and Factoring |
| P.4 | 1 | 43 | Rational Expressions |
| P.5 | 1 | 29 | The Cartesian Plane |
| P.6 | 1 | 19 | Exploring Data: Representing Data Graphically |
| 1.1 | 2 | 30 | Graphs of Equations |
| 1.2 | 2 | 38 | Lines in the Plane |
| 1.3 | 2 | 32 | Functions |
| 1.4 | 2 | 33 | Graphs of Functions |
| 1.5 | 2 | 30 | Shifting, Reflecting, and Stretching Graphs |
| 1.6 | 2 | 9 | Combinations of Functions |
| 1.7 | 2 | 27 | Inverse Functions |
| 2.1 | 3 | 72 | Modeling with Linear Equations |
| 2.2 | 3 | 19 | Solving Equations Graphically |
| 2.3 | 3 | 23 | Complex Numbers |
| 2.4 | 3 | 66 | Solving Equations Algebraically |
| 2.5 | 4 | 41 | Solving Inequalities Algebraically and Graphically |
| 2.6 | 4 | 32 | Exploring Data: Linear Models and Scatter Plots |
| 3.1 | 4 | 31 | Quadratic Functions |
| 3.2 | 4 | 31 | Polynomial Functions of Higher Degree |
| 3.3 | 4 | 37 | Real Zeros of Polynomial Functions |
| 3.4 | 4 | 19 | The Fundamental Theorem of Algebra |
| 3.5 | 4 | 11 | Rational Functions and Asymptotes |
| 3.6 | 4 | 24 | Graphs of Rational Functions |
| 3.7 | 4 | 10 | Exploring Data: Quadratic Models |

| Section | DVD | Length | Title |
|---|---|---|---|
| 4.1 | 5 | 28 | Exponential Functions and Their Graphs |
| 4.2 | 5 | 35 | Logarithmic Functions and Their Graphs |
| 4.3 | 5 | 26 | Properties of Logarithms |
| 4.4 | 5 | 33 | Solving Exponential and Logarithmic Equations |
| 4.5 | 5 | 48 | Exponential and Logarithmic Models |
| 4.6 | 5 | 20 | Exploring Data: Nonlinear Models |
| 5.1 | 6 | 25 | Solving Systems of Equations |
| 5.2 | 6 | 13 | Systems of Linear Equations in Two Variables |
| 5.3 | 6 | 49 | Multivariable Linear Systems |
| 5.4 | 6 | 52 | Matrices and Systems of Equations |
| 5.5 | 6 | 17 | Operations with Matrices |
| 5.6 | 6 | 32 | The Inverse of a Square Matrix |
| 5.7 | 7 | 24 | The Determinant of a Square Matrix |
| 5.8 | 7 | 30 | Applications of Determinants and Matrices |
| 6.1 | 7 | 23 | Sequences and Series |
| 6.2 | 7 | 18 | Arithmetic Sequences and Partial Sums |
| 6.3 | 7 | 30 | Geometric Sequences and Series |
| 6.4 | 7 | 24 | Mathematical Induction |
| 6.5 | 7 | 28 | The Binomial Theorem |
| 6.6 | 7 | 24 | Counting Principles |
| 6.7 | 8 | 28 | Probability |
| 7.1 | 8 | 71 | Conics |
| 7.2 | 8 | 51 | Translations of Conics |
| 7.3 | 8 | 31 | Parametric Equations |