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| **Name:** | **David Young** | **Subject:** | **Linear Systems and Statistics** | **Week of:**  | **September 30, 2013** |
| **Lesson Plans** |
|  | **Monday:** | **Tuesday:** | **Wednesday:** | **Thursday:** | **Friday:** |
| **Statement of** **Objective(s)/****Think, Know,****Do(start with a verb)** | Students will find determinants of matrices | Students will find inverses of 2x2 and 3x3 matrices | Students will solve systems of equations using inverse matrices | Students will find determinants and inverses of square matrices and solve systems of equations using inverse matrices | Students will solve systems of equations using inverse matrices, find determinants, and find inverses of matrices |
| **Anticipatory****Set/Opening** | Bellringer: write a matrix equation for a word problem and find the determinant of a 2x2 matrix | Bellringer: Write a matrix equation for a word problem, find the determinant of a matrix | Bellringer: Write a matrix equation for a word problem, find the inverse of a matrix | Bellringer: Solve a system of equations using inverse matrices from last night's homework assignment | Last minute questions before test |
| **Learning****Activities** | Notes and examples of finding the determinant of 3x3 matrices (using diagonals method, expansion by minors, and calculator)Practice finding determinants | Notes and examples of finding the inverse of 2x2 matrices and 3x3 matricesPractice finding inverses | Notes and examples solving systems of equations using inverse matricesPractice solving systems  | Complete review worksheet on solving systems with inverse matrices, finding determinants, and finding inverses in class | Test over determinants, inverse matrices, and solving systems of equations using inverse matrices |
| **Assessment of****Student****Understanding****/Closure** | Exit slip: Students will find the determinant of a 3x3 matrix | Exit slip: Finding inverse of a matrix | Exit slip: Compare solving systems using augmented matrices to solving systems using inverse matrices. Tell which method you prefer and why. | Exit slip: Go over answers to review sheet and any questions about the review | Test |