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| |  |  | | --- | --- | | **WEST VALLEY COLLEGE Course Outline** | | |  | | | **Department:**  WV Mathematics | **Date:** 05/31/2005 **Revised Date:** | |  | | | **Course Number and Title:** MATH 106P - Preparation for Intermediate Algebra | | |  | | | **Length of course in weeks:** | 18 | | **Units:** | 0.5 | | **Total Class Hours/Week:** | 1.5 | | **Lecture Hours/Week:** |  | | **Lab Hours/Week:** | 1.5 | | **By Arrangement/Week:** |  | |  | | | **Grade Type:** Credit/No Credit Only | | | **SAM Code:**     **TOP Code:** | | |  | | | **Approved as Meeting Title 5 Requirements:** | | | **Curriculum Committee:** | **Date:** | | **Governing Board:** | **Date:** | |  | | | **Oper Unit Coordinator:** | **Date:** | | **Instructional Dean:** | **Date:** | |  | | | **Catalog Description:** | | |  | | | This course is a preparation for Math 106. In this course students are given the opportunity to develop the appropriate entry-level math skills needed to succeed in Intermediate Algebra by using ALEKS, a web-based computer algebra system. | | |  | | | **Schedule Description:** | | |  | | | This course is a preparation for Math 106. In this course students are given the opportunity to develop the appropriate entry-level math skills needed to succeed in Intermediate Algebra by using ALEKS, a web-based computer algebra system. | | |  | | | **Prerequisite(s):**  Prerequisite NONE | | |  | | | **Course Outcomes/Objectives:**  List the major objectives in terms of the observable knowledge and/or skills to be attained as a result of completing this course.   Limit these to the maximum number of critical objectives that can be effectively monitored and assessed. Formulate at least some of them in terms of student accomplishments concrete and specific enough that it can be determined to what extent they have, in fact, been achieved.  Upon completion of this course the student should be able to:   1. Assess their math skill level as they enter Math 106. 2. Demonstrate an understanding of what math skills are necessary to succeed in Math 106. 3. Develop math skills that Increase their chance of succeeding in Math 106. | | | **Assessment:**  Students in this course will be graded, at minimum, in at least one of the following four categories. Please check where appropriate; however, a degree-applicable course must have a minimum of one response in category 1, 2, or 3. If category 1 is not checked, the department must explain why substantial writing assignments are an inappropriate basis for at least part of the grade.   * **2. Problem Solving Demonstrations**   + exams * **3. Skill Demonstrations**   + class performance(s)   + performance (exam) * **4. Examinations**   + other (specify)     - Math problems | | |  | | | **Repeatability:** 4 time(s). | | |  | | | **Course Content:**  The outline should be complete enough to assist an instructor teaching the course for the first time. A listing of major topics covered and the amount of time devoted to each is required.   **Lab Content:**   |  |  |  | | --- | --- | --- | | 1. | Each student starts in the Beginning Algebra module of ALEKS. Based on the student’s answers to math problems, ALEKS provides an estimate of which of the 194 Elementary Algebra concepts and skills the student knows. | 5.00 % | | 2. | After this initial evaluation, students select learning activities in arithmetic, real numbers, solving linear equations, graphing, functions, exponents, polynomials, rational expressions, radicals, and quadratic equations. A math instructor assists the student in learning new skills and concepts | 80.00 % | | 3. | ALEKS periodically re-evaluates each student to verify the student has retained those concepts and skills. | 15.00 % | | | |  | | | **Critical Thinking Tasks/Assignments:**  Critical thinking can be characterized by the ability to do such things as analyze, explain, deduce, solve problems, synthesize, and understand.   1. Find all real values of x for which the following is true: 2x + 7 = 28 – 5x. | | |  | | | **College Level Required Reading, Writing, and other Outside-of-Class Assignments:**  Over an 18 week presentation of the course, three hours per week are required for each unit of credit. Two hours of independent work done out of class are required for each hour of lecture. Outside of the regular class time the students in this class will be doing the following outside of class: | | |  | | | **College Level Appropriate Texts and Materials:**  For degree-applicable courses the adopted texts, as listed in the college bookstore, or instructor prepared materials have been certified primarily to contain college-level materials.  YES  For all courses a list of required and recommended materials is maintained in the college bookstore.   **Textbooks**:   1. Bittinger and Ellenbogen. Elementary Algebra. 6 ed. Addison Wesley, 2006.ISBN: 0201713497   **Manuals**:  NONE  **Periodicals**:  NONE | | |  | | |