VICTOR VALLEY COLLEGE SYLLABUS
FALL 2008

Course No.: **Math 132** **Course Title:** **The Ideas of Mathematics** **Units: 3.0**
Section No.: **21218** **Class Hours:** **5:30pm-6:55pm** **Days:** **TTH** **Room No.: 21-155**
Instructor Name: **Mr. Benjamin Egiebor** **Telephone: (909) 820-0800**

FALL CALENDAR

Fall Semester Begins	August 25
Labor Day Holiday (no classes)	September 1
End of 1st 8-week term	October 18
Beginning of 2nd 8-week term	October 20
Veteran's Day Holiday (no classes)	November 10
Thanksgiving Holidays (no classes)	November 27-30
Fall Semester Ends	December 13

WITHDRAWAL POLICY

Last day to withdraw from a 16-week class and receive a "W" is November 4, 2008.

NOTE **- CLASSES WILL NOT BE HELD ON THE FOLLOWING DATES: Monday, September 1; Monday, November 10, and Thursday through Sunday, November 27-30. CLASSES WILL BE HELD ON SATURDAY, AUGUST 30.**

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Prerequisite: Math 90 with a grade of "C" or better, or eligibility as determined by VVC assessment test.

Textbook : A Survey of Mathematics with Applications by Allen R. Angel

Course Description: This course covers sets and their applications to permutations, combinations, binomial theorem, correspondence, countability, finite probability measures, and expectation with topics in geometry (Euclidean and non-Euclidean, tessellations and fractals), and statistics.

Course Objectives:

Upon completion of this course student will be able to:

1) Appy properties of sets and Venn diagrams to th operations of union, intersection and compliment.
2) Distinguish between the counting techniques of combinations and permutations and apply each to problems posed.
3) Apply the Fundamental Principle of Counting.
4) Recognize the use of probability in the reporting of current events.
5) Apply combinatorics to the Binomial Theorem and produce any term of an expansion.
6) Demontrate the equivalence of two infinite sets by showing their one-to-one correspondence.
7) Distinguish between common infinite sets which are countable versus those which are uncountable
8) Compare relative frequency to the probability of an event using the Law of of Large Numbers.
9) Distinguish between independent and conditional events.
10) Apply the general equations of the circle, parabola. ellipse, and hyperbola.

Attendance Policy: *(Class attendance is not a measure of performance or proficiency. Whether a student is just physically present in the class is not a valid basis for grading. Reference Title 5 Section 55002 of the California Code of Regulations: (A) Grading Policy. The course provides for measurement of student performance in terms of stated course objectives and culminates in a formal, permanently recorded grade based upon uniform standards in accordance with section 55758 of this Division. The grade is based on demonstrated proficiency in the subject matter and the ability to demonstrate that proficiency, at least in part, by means of written expression that may include essays, or, in courses where the curriculum committee deems them to be appropriate, by problem solving exercises or skills demonstrations by students.)*

DATE	TOPICS	
Aug. 26	**Critical Thinking Skills**	**1.1 - 1.2**
Aug. 28	**Critical Thinking Skills**	**1.2 - 1.3**
Sept. 2	**Sets**	**2.1 - 2.2**
Sept. 4	**Sets**	**2.3 - 2.4**
Sept. 9	**Sets**	**2.5 - 2.6**
Sept. 11	**Exam # 1**	
Sept. 16	**Logic**	**3.1 - 3.2**
Sept. 18	**Logic**	**3.2 - 3.3**
Sept. 23	**Logic**	**3.4 - 3.5**
Sept. 25	**Logic**	**3.5 - 3.6**
Sept. 30	**Logic**	**3.6 - 3.7**
Oct. 2	**Logic**	**3.7**
Oct. 7	**Exam # 3**	
Oct. 9	**Geometry**	**9.1 - 9.2**
Oct. 14	**Geometry**	**9.3 - 9.4**
Oct. 16	**Geometry**	**9.5 - 9.6**
Oct. 21	**Geometry**	**9.7**
Oct. 23	**Exam # 3**	

DATE	TOPICS	
Oct. 28	**Probability**	**12.1 - 12.2**
Oct. 30	**Probability**	**12.3 - 12.4**
Nov. 4	**Probability**	**12.5 - 12.6**
Nov. 6	**Probability**	**12.7 - 12.8**
Nov. 11	**Probability**	**12.9 - 12.10**
Nov. 13	**Probability**	**12.11**
Nov. 18	**Exam # 4**	
Nov. 20	**Statistics**	**13.1 - 13.2**
Nov. 25	**Statistics**	**13.3 - 13.4**
Nov. 27	**HOLIDAY**	
Dec. 2	**Statistics**	**13.5 - 13.6**
Dec. 4	**Statistics**	**13.7 - 13.8**
Dec. 9	**REVIEW FOR FINAL EXAM**	
Dec. 11	**FINAL EXAM**	

NOTES:

<u>TURN OFF CELL-PHONES AND BEEPERS</u> DURING CLASS TIME

<u>Grading Policy:</u>

4 - EXAMS----------80%
HOMEWORK----------10%
QUIZZES (CLASSWORK)----------10%

TOTAL = 100%

GRADING SCALE:

90% - 100%=A
80% - 89%=B
70% - 79%=C
60% - 69%=D
Less than 60%=F