Las Positas College
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Course Outline for NMAT 260A

MATH JAM INTRODUCTION TO TUTORING

Effective: Fall 2019

I. CATALOG DESCRIPTION:
NMAT 260A — Noncredit

Math Jam is designed to help students prepare for their upcoming math class. This Math Jam Tutor Training course is designed to train tutors prior to Math Jam in strategies for effectively engaging students in learning difficult math concepts. Tutors will learn about intelligent practices for mastering material and how to navigate in the online course environment participants will be using during Math Jam. This is designed for students who are interested in becoming a paid mathematics tutor at Las Positas College or in any educational capacity.

Grading Methods:
Pass/No Pass

Discipline:
- Learning Assistance Instructors or
- Mathematics-Basic Skills: Noncredit

Noncredit Category
I - Short-Term Vocational

	MIN
Total Noncredit Hours:	4.00

II. PREREQUISITE AND/OR ADVISORY SKILLS:

III. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

A. Communicate effectively about theory of Growth Mindset, as an individual and as a tutor.
B. Communicate effectively about strategies for tutoring students in mathematics.
C. Navigate in online support course environment effectively.

IV. CONTENT:
A. Explore the Growth Mindset theory.
    1. Tutors will explore how growth mindset can affect their own learning and development as they participate in activities and discussions.
B. Learn about best practices in tutoring and learning of mathematics
C. Study strategies for effective interaction with students:
    1. In a lab setting
    2. In questioning students about math concepts and progress
    3. Developing independent learners.
    4. Modeling effective problem-solving techniques
    5. Instilling growth mindset in students they are supporting
D. Orientation to online support courses and learning tools

V. METHODS OF INSTRUCTION:
A. **Classroom Activity** -
B. **Audio-visual Activity** - such as watching videos, reading multi-media textbook, working problems out in steps, etc.

VI. TYPICAL ASSIGNMENTS:
A. Read Growth Mindset Article(s) and respond to targeted questions about the theory in relation to them as individuals and their roles as a tutor.

VII. EVALUATION:
Methods/Frequency

A. Class Participation
    Daily attendance required.
B. Class Work
    Daily hands-on activities around effective tutoring of mathematics.
C. Home Work
    Assignments on Growth Mindset and how it relates to effective tutoring in mathematics.

VIII. TYPICAL TEXTS:

1. Bass, Alan. *Math Study Skills.* 2 ed., Pearson/Addison-Wesley, 2013.
2. Nolting, Paul. *Winning at Math Transition: Mathematics Study Skills Guide for Students Preparing for College.* 1st ed., Academic Success Press, Incorporated, 2017.
3. Brock, Annie, and Heather Hundley. *The Growth Mindset Playbook: A Teacher's Guide to Promoting Student Success.* 1st ed., Ulysses Press, 2017.

IX. OTHER MATERIALS REQUIRED OF STUDENTS: