

CUYAMACA COLLEGE
COURSE OUTLINE OF RECORD

STEM 101– INTRODUCTION TO COLLEGE SUCCESS IN STEM

0.5-1 hour lecture, 0.5-1 unit

Catalog Description

New to college? Interested in STEM? This low risk, fun, introductory class will get you connected with the resources to help you succeed at Cuyamaca College while providing a broad survey of what STEM has to offer through engaging, hands-on activities. Students will get to interact with like-minded peers, key STEM faculty, and STEM-specialized counselors. Students will learn about the college, its facilities, services, general education requirements, and certificate, degree, and transfer options in as well as receiving preliminary education planning in a supportive and caring environment.

Pass/No Pass only. Non-degree applicable.

Prerequisite

None

Corequisite

COUN 101

Entrance Skills

Without the following skills, competencies and/or knowledge, students entering this course will be highly unlikely to succeed:

- 1) Academic policies, procedures and requirements through the use of various resources such as college catalogs, class schedules and websites.
- 2) Student support programs, services and campus resources such as the Library, Counseling, Tutoring Centers, Transfer Center, and Career Center
- 3) Personal growth and life management.
- 4) Elements of a successful education plan.

Course Content

Students will work with instructional faculty to strategize their success in college through highly interactive, equity-minded lessons on critical thinking in STEM. Students will also become familiar with the STEM academic and career pathway (ACP). College Services will be discussed in the COUN 101, and coordinated with STEM exploration through hands on activities in this course. Students will also learn how to utilize campus resources such as the Library, Counseling, Tutoring Center, Transfer Center and Career Center.

Course Objectives

Students will be able to:

- 1) Identify academic and career options at the college; i.e. certificates, degrees and transfer options.
- 2) Understand and navigate the available campus resources.
- 3) Develop skills in critical thinking and problem-solving in STEM-related contexts.
- 4) Explore how STEM intersects with social identity and privilege.
- 5) Discuss the inequities that exist in STEM education and fields, and how to confront and address them.
- 6) Increase self-efficacy for academic success in STEM.

Method of Evaluation

A grading system will be established by the instructor and implemented uniformly. Grades will be based on demonstrated proficiency in the subject matter determined by multiple measurements for evaluation, one of which must be essay exams, skills demonstration or, where appropriate, the symbol system.

- 1) Independent project that demonstrates students' ability to apply college policies and procedures to academic success, and academic progress requirements.
- 2) Written assignment in which students assess their academic goals and employ strategies to reach goals.

Special Materials Required of Student

None

Minimum Instructional Facilities

Projector, whiteboard, class set of computers

Method of Instruction

- 1) Lecture and discussion
- 2) Interactive demonstration
- 3) Guest speaker

Out-of-Class Assignments

Virtual or onsite tour of the college student services and academic departments.

Texts and References

- 1) Required (representative example): None
- 2) Supplemental: None

Student Learning Outcomes

Upon successful completion of this course, students will be able to:

- 1) Explain the importance of observation, experimentation, and data analysis.
- 2) Identify academic and student support resources.