

Mesa Community College • Student Outcomes Assessment Program
Student Learning Outcomes

STUDENT LEARNING OUTCOMES FOR GENERAL EDUCATION

Communication

1. Write a clear, well-organized paper using documentation and quantitative tools when appropriate.
2. Construct and deliver a clear, well-organized, verbal presentation.
3. Interact in a collaborative, synergistic manner within a small group problem solving meeting.
4. Maintain an interpersonally effective climate within a one to one dyadic interchange.

Numeracy

1. Identify and extract relevant data from given mathematical situations.
2. Select known models or develop appropriate models that organize the data into tables or spreadsheets, graphical representations, symbolic/ equation format.
3. Obtain correct mathematical results and state those results with the qualifiers.
4. Use the results.

Problem Solving/Critical Thinking

1. Identify a problem or argument.
2. Isolate facts related to the problem.
3. Differentiate facts from opinions or emotional responses.
4. Ascertain the author's conclusion.
5. Generate multiple solutions to the problem.
6. Predict consequences.
7. Use evidence or sound reasoning to justify a position.

Scientific Inquiry

Demonstrate scientific inquiry skills related to:

1. Hypothesis: Distinguish between possible and improbable or impossible reasons for a problem.
2. Prediction: Distinguish between predictions that are logical or not logical based upon a problem presented.
3. Assumption: Recognize justifiable and necessary assumptions based on information presented.
4. Interpretation: Weigh evidence and decide if generalizations or conclusions based upon given data are warranted.
5. Evaluation: Distinguish between probable and improbable causes, possible and impossible reasons, and effective and ineffective action based on information presented.

Arts and Humanities

1. Demonstrate knowledge of human creations.
2. Demonstrate an awareness that different contexts and/or world views produce different human creations.
3. Demonstrate an understanding and awareness of the impact that a piece (artifact) has on the relationship and perspective of the audience.
4. Demonstrate an ability to evaluate human creations.

Information Literacy

1. Given a problem, define specific information needed to solve the problem or answer the question.
2. Locate appropriate and relevant information to match informational needs.
3. Identify and use appropriate print and/or electronic information sources.
4. Evaluate information for currency, relevancy, and reliability.
5. Use information effectively.

Cultural Diversity

1. Identify and explain diverse cultural customs, beliefs, traditions, and lifestyles.
2. Identify and explain major cultural, historical and geographical issues that shape our perceptions.
3. Identify and explain social forces that can effect cultural change.
4. Identify biases, assumptions, and prejudices in multicultural interactions.
5. Identify ideologies, practices, and contributions that persons of diverse backgrounds bring to our multicultural world.

STUDENT LEARNING OUTCOMES FOR THE WORKPLACE

1. **Ethics:** The ability to commit to standards of personal and professional integrity, honesty and fairness.
2. **Interpersonal Skills:** The ability to utilize oral, written and listening skills to effectively interact with others.
3. **Critical Thinking:** The ability to analyze and evaluate information and utilize a variety of resources in making decisions or solving problems.
4. **Organization:** The ability to prioritize, meet deadlines and complete assignments in a timely manner; adapt to a constantly changing workload and environment; and identify realistic goals and inventions for short and long term planning.
5. **Team Work:** The ability to collaborate with others toward the accomplishment of common goals.
6. **Technology Literacy:** The ability to use technology and understand its value and purpose in the workplace.
7. **Personal and Professional Responsibilities:** The ability to assess the range of one's abilities, accept responsibility for setting realistic goals, and implement a plan for personal and professional well-being.

STUDENT LEARNING OUTCOMES FOR DEVELOPMENTAL EDUCATION

Reading

Read written and graphically-presented information and draw correct and/or reasonable inferences and conclusions from the information.

Recognize how basic principles from one discipline generalize to other disciplines.

English

Given written and graphically-presented information, create a thesis and support it with evidence from the information.

Mathematics

Given a mathematical problem, demonstrate critical thinking skills by:

- a. interpreting the problem
- b. determining the correct mathematical operations for the problem
- c. using estimation in reaching a solution
- d. solving the problem
- e. determining the reasonability of a solution