

Global Learning Outcome#6 ANALYTICAL FLUENCY CATEGORIES

GLO #6 Analytical Fluency: Our graduates work with data effectively.

Choose one of these four categories that your student learning best measures within a particular assignment/course learning assessment.

6.1 Explanation of Data

Students will be able to...

Explain the meaning of calculations, symbolic operations, data, or data processes (lower-level comprehension)

Aligns with ULAO Core Proficiency 6b

Possible Learning Assessments

Outline	Show and Tell
Checklist	Quiz
Summary	Lab Report

6.2 Quantitative Analysis

Students will be able to...

Analyze meaningful patterns in quantitative data within a disciplinary framework (higher-level analysis)

Aligns with ULAO Core Proficiencies 6a (quantitative) and 6d

Possible Learning Assessments

Abstract	Chart
Graph	Report
Database/spreadsheet	Paper

6.3 Linguistic/Qualitative Analysis

Students will be able to...

Analyze linguistic patterns or meaningful patterns in qualitative data within a disciplinary framework (higher-level analysis)

Aligns with ULAO Core Proficiencies 6a (qualitative) and 6c

Possible Learning Assessments

Abstract	Chart
Survey	Report
Database/spreadsheet	Paper or Essay

6.4 Other (does not fit one of the categories above)

Updated Core Proficiencies for ULAO #6

These apply to core courses and align with categories of GLO #6 as outlined above.

University Liberal Arts Outcome 6: Analytical Fluency

Students will develop, use and interpret meaningful patterns in data, whether in the form of natural language texts/speech, qualitative information or quantitative data or formulae.

Core Proficiencies

The student will:

- 6a. effectively utilize qualitative and quantitative information to appropriately analyze problems;
- 6b. explain how calculations and symbolic operations are used to ask questions and analyze problems in the arts, humanities, social sciences, natural sciences, computational sciences, or mathematic;
- 6c. analyze, identify, and interpret meaningful patterns in qualitative information using linguistic, logical, or algorithmic tools;
- 6d. manipulate numbers/data to analyze, identify, and interpret meaningful patterns in quantitative information using algorithmic, mathematical or statistical reasoning.