**Student Learning Outcomes for UCORE QUAN designation**

Copy, complete, and submit the student learning outcomes grid provided on page two of this document with any course proposal or renewal request, along with other required materials (syllabus, assignment prompts, renewal form).

Web reference: <https://ucore.wsu.edu/faculty/curriculum/quan/>

***QUAN designation description:***

**Individuals who develop strong quantitative reasoning skills possess the ability to reason and solve quantitative problems from a wide array of authentic contexts and everyday life situations. They understand and can create arguments supported by quantitative evidence and they can clearly communicate and explain those arguments in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate).**

***Adaptable QUAN description for course syllabi***

*Please adapt this QUAN course description for use in your syllabus. If possible, integrate with course specific description.*

XXXX XXX satisfies the QUAN requirement for WSU’s University Common Requirements (UCORE), which is designed to help you acquire broad understanding, develop intellectual and civic competencies, and apply knowledge and skills in real world settings. Upon completion of UCORE, you will have the tools needed to seek out information, interpret it, share it, and make reasoned and ethical judgements on a wide array of issues. With these broader goals in mind, XXXX XXX focuses on the fundamentals of quantitative reasoning, including how to interpret, evaluate, and critique the results of quantitative analysis, and how to identify strengths and weakness of quantitative methods.

***WSU’s Seven Learning Goals and QUAN (for Reference)***

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **UCORE Requirements & WSU’s Learning Goals** | **Critical & Creative Thinking** | **Information Literacy** | **Communication** | | **Quantitative Reasoning** | **Scientific Literacy** | **Diversity** | **Depth, Breadth, & Integration of Learning** |
| Written | Non-written |
| **FOUNDATIONAL COMPETENCIES** | | | | | | | | |
| **Quantitative Reasoning** [QUAN] | X | X | X |  | X |  |  |  |

*QUAN courses may also contribute to other learning outcomes as determined by faculty.*

|  |  |  |  |
| --- | --- | --- | --- |
| **WSU Learning Goal of Undergraduate Education** | **QUAN Designator Learning Outcomes**  *Students who successfully complete a [QUAN] course should be able to:* | **Course Learning Outcomes** *Students who successfully complete this course should be able to:* | **Course Learning Activities, Assignments, and Assessments** |
| **Quantitative Reasoning** | Apply quantitative principles and computational methods to solve quantitative problems. |  |  |
| **Quantitative Reasoning** | Convert relevant information into various mathematical forms, such as equations, graphs, diagrams, and tables. |  |  |
| **Written Communication** | Communicate mathematical information in writing (e.g., interpret data in a graph, table, or chart). |  |  |
| **Information Literacy** | Identify when, and what type of, quantitative data are appropriate to support claims in given. |  |  |
| **Critical Thinking** | Interpret and/or apply with accuracy, as well as recognize the limitations of quantitative information in real-world and/or multidisciplinary contexts (e.g., political, economic, scientific, social). |  |  |