**EPCC Proposal Form for Designation in Embedded Skill:**

**Quantitative Reasoning (QR)**

**Department**: Click here to enter Department Name.

**Date**: Click here to enter a date.

**Proposed by**: Click here to enter proposer’s name

 **Course Information**

|  |  |  |
| --- | --- | --- |
| Course prefix | Course number | Course title |
| Course catalog description |
| Current catalog course? (Select Yes or No) | Yes | How often will thecourse be offered? | Frequency of offerings |
| Number of credit hours\* | Credits | Designation to be effective: | Effective Semester | Effective Year |

**For administrative use only. Reviewed by**

Gen. Ed. Dir.: Click to enter Gen Ed Dir’s name Choose Approval. Choose date.

EPCC Chair: Click to enter EPCC Chair’s name Choose Approval. Choose date.

**Definitions**: These terms are used in the Course Characteristics and Student Learning Outcomes below.

Quantitative methods of problem solving include any of those among arithmetic, algebraic, geometric, algorithmic and statistical methods

Representations of quantitative information include symbolic (e.g., a formula or symbolic language), visual (e.g., a graph, diagram or schematic), numerical (e.g., a table of values or calculation) or verbal (e.g., written or oral work).

 Methods of analysis of solutions to quantitative questions may include plausible estimation, testing for reasonableness, verifying the solution by using alternate methods of problem solving and testing the solution to see if it is optimal

**Course Characteristics**: *By submitting this proposal the department agrees to verify that all offerings of this course, in any format, will contain these characteristics.* No information is needed here for this proposal. Choose an item.

QR CC1. offer explicit instruction in the use of quantitative reasoning skills.

QR CC2. include several opportunities to practice quantitative reasoning skills.

QR CC3. provide feedback that is designed to help students evaluate and improve quantitative reasoning skills.

**Student Learning Outcomes (SLOs)**: 1) Describe examples of class activities (assignments, projects, papers, etc.) that might be used by the instructor to help students achieve each SLO.  2) Describe the artifacts that are collectible for assessment of each SLO.

A student who completes a QR course will be able to …

QR SLO1. draw inferences, solve problems and make decisions using quantitative methods

Examples of activities and collectible student artifacts: Click here to enter activities and collectible student artifacts.

QR SLO2. communicate solutions to quantitative questions in oral or written communication that incorporates symbolic, numeric or graphical representations

Examples of activities and collectible student artifacts: Click here to enter activities and collectible student artifacts.

QR SLO3. analyze solutions to quantitative questions for accuracy, precision, suitability and/or other appropriate criteria

Examples of activities and collectible student artifacts: Click here to enter activities and collectible student artifacts.

QR SLO4. describe the value, limitations and/or implications of quantitative decision making

Examples of activities and collectible student artifacts: Click here to enter activities and collectible student artifacts.