**Ways of Knowing In Quantitative Reasoning (WKQR)**

**Course Proposal**

**Course Subject Code and Number:** Click here to enter text.

**Course Title:** Click here to enter text.

**Number of Credits:** Click here to enter text.

**Is the course repeatable for credits?** Click here to enter text. **If yes, how many times may the course be repeated?** Click here to enter text.

**Catalog Course Description:** Click here to enter text.

**Class Size:** WK courses are intended for 35 to 40 students per section but exceptions may be permitted. If this course is intended to deviate from this standard, please indicate the number of students permitted per section and provide a rationale for the exception. Click here to enter text.

**Course Goals**

In WKQR courses students will learn to reason abstractly and deductively, understand and analyze data, and become fluent in quantitative problem-solving. In a single paragraph please describe how students will meet the following course goals:

1. Develop competency in meaningful ideas of mathematics, including deductive reasoning, quantitatively-oriented problem-solving, and analysis of data.
2. Develop an appreciation for and an ability to use quantitative methods as a powerful means for problem-solving and decision-making.
3. Increase the quantitative and logical reasoning abilities needed for a liberal arts education, the workplace, and informed citizenship.

Click here to enter text.

**Course Objectives**

The following objectives are in place for WKQR courses. Describe the assignments, texts and other learning experiences that enable the student to meet each of these course objectives:

1. Recognize that deductive reasoning is how quantitative disciplines make sense of knowledge. Click here to enter text.
2. Create, analyze, and interpret basic mathematical and/or statistical models from informal problem statements. Click here to enter text.
3. Use a variety of mathematical strategies for problem solving. Click here to enter text.
4. Select and use appropriate mathematical computations, procedures, and tools in problem solving. Click here to enter text.
5. Communicate mathematical and quantitative ideas. Click here to enter text.
6. Make and evaluate inferences based on data analysis. Click here to enter text.
7. Apply abstract and deductive reasoning appropriately and be able to recognize the reasonableness of their results. Click here to enter text.

**Course Criteria**

In addition to meeting WKQR course goals and objectives, the following criteria must be met. Describe how the proposed course does this.

1. WKQR courses will be focused primarily on quantitative reasoning through mathematics and/or statistics. Click here to enter text.
2. WKQR courses will have a stated prerequisite of intermediate algebra or above. (This is the equivalent of the current SPU math placement level A.)\*. Click here to enter text.
3. WKQR courses will address all goals and objectives and focus deeply on at least two of the three categories: deductive reasoning, quantitatively-oriented problem solving, and analysis of data. Click here to enter text.
4. WKQR courses will use appropriate computer-based technology such as spreadsheets or analytical software. Click here to enter text.