

**UMBC UGC Change in Existing Course: SCI 101L – Quantitative Reasoning: Measurement and Skills Lab**

Date Submitted:

Proposed Effective Date: Fall 2016

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**COURSE INFORMATION:** (please provide all information in the “current” column, and only the information changing in the “proposed” column)

change		current	proposed
<input type="checkbox"/>	Course Number(s)	SCI 101L	
<input type="checkbox"/>	Formal Title	Quantitative Reasoning: Measurement and Skills Lab	
<input type="checkbox"/>	Transcript Title (≤30c)	QuantReason: Measure&Skill Lab	
<input type="checkbox"/>	Recommended Course Preparation	None	
<input checked="" type="checkbox"/>	Prerequisite <b>NOTE:</b> Unless otherwise indicated, a prerequisite is assumed to be passed with a “D” or better.	C or better in MATH 106, MATH 150, MATH 155, or MATH 151) or (Math Placement Milestone 4 or 5) or (AP credit for MATH 150 or MATH 151)	Completion of MATH 106 or MATH 106Y with a C or better or a current math placement of MATH 150 or higher.
<input type="checkbox"/>	Credits	2	
<input type="checkbox"/>	Repeatable?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/>	Max. Total Credits	2	<b>Max. Total Credits:</b> This should be equal to the number of credits for courses that cannot be repeated for credit. For courses that may be repeated for credit, enter the maximum total number of credits a student can receive from this course. E.g., enter 6 credits for a 3 credit course that may be taken a second time for credit, but not for a third time. Please note that this does NOT refer to how many times a class may be retaken for a higher grade.
<input type="checkbox"/>	Grading Method(s)	<input checked="" type="checkbox"/> Reg (A-F) <input type="checkbox"/> Audit <input type="checkbox"/> Pass-Fail	<input type="checkbox"/> Reg (A-F) <input type="checkbox"/> Audit <input type="checkbox"/> Pass-Fail

**CURRENT CATALOG DESCRIPTION:**

Designed for first year students interested in pursuing degrees in science, technology, engineering, and mathematics (STEM), this interdisciplinary science laboratory course will expose students to different STEM disciplines through a series of projects centered on the common theme of measurement. All projects require mastering basic quantitative skills (e.g., arithmetical, algebraic, geometric, probabilistic, and statistical methods), higher-order reasoning (e.g., evaluate representations, interpret mathematical models, determine reasonableness, and recognize limitations), and the practical use of measurement tools.

**PROPOSED CATALOG DESCRIPTION** (no longer than 75 words): leave blank if no changes are being proposed to the catalog description. NOTE: information about prerequisites should NOT appear in the catalog description.)

**RATIONALE FOR CHANGE:**

The proposed changes are to clarify the course pre-requisite description. To enroll in the course, students need to have completed MATH 106 or MATH 106Y with a C or better or be placed into MATH 150 or higher with AP credits or performance on the math placement exam. The current pre-requisite description is confusing and could be interpreted that students need to complete MATH 150, MATH 155, or MATH 151 in addition to MATH 106 with a C or better to enroll in the course. Thus we would like to simplify the pre-requisites by stating “Completion of MATH 106 or MATH 106Y with a C or better or a current math placement of MATH 150 or higher”.