This rubric is a tool for Chairs/Disciplines in completing Purposeful Mapping.

## **EMPIRICAL AND QUANTITATIVE SKILLS**

		If all content is taught in this area,			Do not map.
		please chec			
Focus Area		[Instructor Teaches]	[Instructor Teaches]	[Instructor Teaches]	Does Not Apply
		Student Thoroughly	Student Adequately	Student Minimally Meets	to This Course
		Meets Expectations	Meets Expectations	Expectations	
	[The instructor will teach	The student thoroughly	The student adequately	The student minimally	The student does not minimally
	and] Students will apply the	demonstrates the ability	demonstrates the ability	demonstrates the ability	demonstrate the ability to apply
	Scientific Method to validate	to apply the Scientific	to apply the Scientific	to apply the Scientific	the Scientific Method to validate
	a hypothesis.	Method to validate a	Method to validate a	Method to validate a	a hypothesis.
Scientific Method		hypothesis.	hypothesis.	hypothesis.	
ient leth	[The instructor will teach	The student thoroughly	The student adequately	The student minimally	The student does not minimally
≤ Sc	and] Students will apply the	demonstrates the ability	demonstrates the ability	demonstrates the ability	demonstrate the ability to apply
	Scientific Method to refute a	to apply the Scientific	to apply the Scientific	to apply the Scientific	the Scientific Method to refute a
	hypothesis.	Method to refute a	Method to refute a	Method to refute a	hypothesis.
		hypothesis.	hypothesis.	hypothesis.	



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Focus Area		[Instructor Teaches]	[Instructor Teaches]	[Instructor Teaches]	Does Not Apply
		Student Thoroughly	Student Adequately	Student Minimally Meets	to This Course
		Meets Expectations	Meets Expectations	Expectations	
	[The instructor will teach	The student thoroughly	The student adequately	The student minimally	The student does not minimally
	and] Students will complete	demonstrates the ability	demonstrates the ability	demonstrates the ability	demonstrate the ability to
	quantitative analysis through	to complete quantitative	to complete quantitative	to complete quantitative	complete quantitative analysis
	the utilization of appropriate	analysis through the	analysis through the	analysis through the	through the utilization of
	arithmetic operations.	utilization of appropriate	utilization of appropriate	utilization of appropriate	appropriate arithmetic
		arithmetic operations.	arithmetic operations.	arithmetic operations.	operations.
	[The instructor will teach	The student thoroughly	The student adequately	The student minimally	The student does not minimally
	and] Students will complete	demonstrates the ability	demonstrates the ability	demonstrates the ability	demonstrate the ability to
	quantitative analysis through	to complete quantitative	to complete quantitative	to complete quantitative	complete quantitative analysis
	the utilization of appropriate	analysis through the	analysis through the	analysis through the	through the utilization of
	algebraic operations.	utilization of appropriate	utilization of appropriate	utilization of appropriate	appropriate algebraic
		algebraic operations.	algebraic operations.	algebraic operations.	operations.
	[The instructor will teach	The student thoroughly	The student adequately	The student minimally	The student does not minimally
	and] Students will complete	demonstrates the ability	demonstrates the ability	demonstrates the ability	demonstrate the ability to
	quantitative analysis through	to complete quantitative	to complete quantitative	to complete quantitative	complete quantitative analysis
	the utilization of appropriate	analysis through the	analysis through the	analysis through the	through the utilization of
s ive	geometric operations.	utilization of appropriate	utilization of appropriate	utilization of appropriate	appropriate geometric
Quantitative Analysis		geometric operations.	geometric operations.	geometric operations.	operations.
	[The instructor will teach	The student thoroughly	The student adequately	The student minimally	The student does not minimally
An	and] Students will complete	demonstrates the ability	demonstrates the ability	demonstrates the ability	demonstrate the ability to
đ	quantitative analysis through	to complete quantitative	to complete quantitative	to complete quantitative	complete quantitative analysis
	the utilization of appropriate	analysis through the	analysis through the	analysis through the	through the utilization of
	trigonometric operations.	utilization of appropriate	utilization of appropriate	utilization of appropriate	appropriate trigonometric
		trigonometric operations.	trigonometric operations.	trigonometric operations.	operations.
	[The instructor will teach	The student thoroughly	The student adequately	The student minimally	The student does not minimally
	and] Students will complete	demonstrates the ability	demonstrates the ability	demonstrates the ability	demonstrate the ability to
	quantitative analysis through	to complete quantitative	to complete quantitative	to complete quantitative	complete quantitative analysis
	the utilization of appropriate	analysis through the	analysis through the	analysis through the	through the utilization of
	probabilistic operations.	utilization of appropriate	utilization of appropriate	utilization of appropriate	appropriate probabilistic
		probabilistic operations.	probabilistic operations.	probabilistic operations.	operations.
	[The instructor will teach	The student thoroughly	The student adequately	The student minimally	The student does not minimally
	and] Students will complete	demonstrates the ability	demonstrates the ability	demonstrates the ability	demonstrate the ability to
	quantitative analysis through	to complete quantitative	to complete quantitative	to complete quantitative	complete quantitative analysis
	the utilization of other	analysis through the	analysis through the	analysis through the	through the utilization of other
	relevant mathematical	utilization of other	utilization of other	utilization of other	relevant mathematical
	operations.	relevant mathematical	relevant mathematical	relevant mathematical	operations.
		operations.	operations.	operations.	

TPPE Learning Assessment

Focus Area		[Instructor Teaches]	[Instructor Teaches]	[Instructor Teaches]	Does Not Apply
		Student Thoroughly	Student Adequately	Student Minimally Meets	to This Course
		Meets Expectations	Meets Expectations	Expectations	
Presentation	[The instructor will teach and]	The student thoroughly	The student adequately	The student minimally	The student does not minimally
	Students will present	demonstrates the ability	demonstrates the ability	demonstrates the ability	demonstrate the ability to
	empirical and quantitative	to present empirical and	to present empirical and	to present empirical and	present empirical and
	results in a variety of formats.	quantitative results in a	quantitative results in a	quantitative results in a	quantitative results in a variety
		variety of formats such as	variety of formats such as	variety of formats such as	of formats such as tables,
		tables, charts, graphs,	tables, charts, graphs,	tables, charts, graphs,	charts, graphs, maps, or
		maps, or equations.	maps, or equations.	maps, or equations.	equations.
	[The instructor will teach and]	The student thoroughly	The student adequately	The student minimally	The student does not minimally
	Students will present	demonstrates the ability	demonstrates the ability	demonstrates the ability	demonstrate the ability to
	empirical and quantitative	to present empirical and	to present empirical and	to present empirical and	present empirical and
	conclusions in a variety of	quantitative conclusions	quantitative conclusions	quantitative conclusions	quantitative conclusions in a
	formats.	in a variety of formats	in a variety of formats	in a variety of formats	variety of formats such as
		such as tables, charts,	such as tables, charts,	such as tables, charts,	tables, charts, graphs, maps, or
		graphs, maps, or	graphs, maps, or	graphs, maps, or	equations.
		equations.	equations.	equations.	

