

Math, Physical Science & Pre-Engineering Course Map

MPSPE Program	Semester: Fall/Spring/Summer	Required Courses in Major							
Level of Instruction Criteria	Program Outcomes	MATH 1513	MATH 1613	CHEM 1115	CHEM 1215	MATH 2265	PHYS 1114/ PHYS 2014	MATH 2275	PHYS 1214/ PHYS 2114
(I) Introduced At the collegiate level, students <u>are not expected to be familiar</u> with the content or skill. Instruction and learning activities focus on basic knowledge, skills, and/or entry-level complexity.	PO 1 Apply the Pythagorean Theorem 1. Solve for various components 2. Recognize relationships between variables 3. Interpret graphical information	I	R			R	R	A	A
(R) Reinforced At the collegiate level, students <u>are expected</u> to possess a <u>basic level</u> of knowledge and familiarity with the content or skills. Instruction and learning concentrate on enhancing and strengthening previous collegiate knowledge/skills and complexity	PO 2 Apply problem solving strategies. 1. Apply appropriate equation to the problem 2. Choose the correct value for each variable 3. Solve the mathematical equation	I	R	R	R	R	R	A	A
(A) Advanced At the collegiate level, students <u>are expected</u> to possess a <u>strong foundation</u> in the knowledge, skill or competency. Instruction and learning activities continue to build upon previous competencies with increased complexity and application of use.	PO 3 Perform safe and appropriate laboratory techniques. 1. Apply appropriate personal protective equipment 2. Demonstrate proper laboratory hygiene 3. Demonstrate proper laboratory safety			R	A		R		A