

SIUE Undergraduate Assessment and Program Review

Department of Physics

Program-initiated Goal of Objective	Where, When, and How Monitored	Expectation for Satisfactory Performance	Decision Point	Observations of Student Performance	When and By Whom Were Results Analyzed?	Outcome of Analysis	Dept. or Program Follow-up
Physics 111 students will demonstrate significant learning of conceptual physics	Pre- and post-testing using Force Concept Inventory	Performance on nationally normed exam	Each student demonstrates a gain $g = (\text{posttest-pretest}) / (100 - \text{pretest})$ of at least 0.3 and/or final performance of 60% or better.	_How many students _23 students exceeded _4 met and _4 did not meet expectations _8 students exempted _39 Total	Dept. meeting date ___ or Individual analysis (describe)? Based on previous report	Objective not wholly satisfied. Follow-up strategy is to introduce interactive engagement methods in 111 course	None required <input type="checkbox"/> Follow-up completion on date _____ xWill re-examine by date end of fall semester and each semester thereafter
Physics 213 students will demonstrate significant learning of algebra-level mechanics, heat, and waves	AP level B Physics exam (half of it)	Performance on nationally normed exam	Each student scores at least 40%, and students earning an A score at least 60%.	_How many students _18 exceeded _67 met _76 did not meet expectations? _16 exempted _177 Total	Dept. meeting date ___ or Individual analysis (describe)? Based on previous report	Objective not wholly satisfied. Follow-up strategy is to introduce interactive engagement methods, to introduce a math placement test, and to begin to standardize curricula	None required <input type="checkbox"/> Follow-up completion on date _____ xWill re-examine by end of fall semester and each semester thereafter
Physics 214 students will demonstrate significant learning of algebra-level electricity, magnetism, light, and modern physics	AP level B Physics exam (the other half of it)	Performance on nationally normed exam	Each student scores at least 40%, and students earning an A score at least 60%.	How many students _9 exceeded _23 met _56 did not meet expectations? _4 exempted _92 Total	Dept. meeting date ___ or Individual analysis (describe)? Based on previous report	Objective satisfaction unknown at this point. No students took the test.	None required <input type="checkbox"/> Follow-up completion on date _____ xWill examine by end of fall semester and each semester thereafter
Physics 313 students will demonstrate significant learning of calculus-level mechanics, heat, and wave motion	AP level C Mechanics exam	Performance on nationally normed exam	Each student scores at least 40%, and students earning an A score at least 60%.	How many students _27 exceeded _97 met _111 did not meet expectations? _31 exempted _266 Total	Dept. meeting date ___ or Individual analysis (describe)? Based on previous report	Objective not wholly satisfied. Follow-up strategy is to introduce interactive engagement methods and to introduce a math placement test.	None required <input type="checkbox"/> Follow-up completion on date _____ xWill re-examine by end of fall semester and each semester thereafter

SIUE Undergraduate Assessment and Program Review

<p><i>Physics 314 students will demonstrate significant learning of calculus-level electricity, magnetism, and light</i></p>	<p>AP level C Electricity and Magnetism exam</p>	<p>Performance on nationally normed exam</p>	<p>Each student scores at least 40%, and students earning an A score at least 60%.</p>	<p>How many students _17_ exceeded _100_ met _69_ did not meet expectations? _13_ exempted _199_ Total</p>	<p>Dept. meeting date ___ or Individual analysis (describe)? Based on previous report</p>	<p>Objective not wholly satisfied. Follow-up strategy is to introduce interactive engagement methods and to introduce a math placement test.</p>	<p>None required <input type="checkbox"/> Follow-up completion on date _____ <input checked="" type="checkbox"/> Will re-examine by end of fall semester and each semester thereafter</p>
<p><i>Graduating seniors in Physics will demonstrate significant learning of the standard Physics curriculum</i></p>	<p>Graduate Record Examination in Physics</p>	<p>Performance on nationally normed exam</p>	<p>Each student scores at least 50%</p>	<p>How many students _0_ exceeded _0_ met _0_ did not meet expectations? _1_ exempted _1_ Total</p>	<p>Undergraduate advisor is accumulating data on averages in each subfield</p>	<p>Objective satisfaction unknown at this point. Follow-up strategy is to ensure curriculum in each advanced class covers essentials, and to introduce a problem-solving course.</p>	<p>None required <input type="checkbox"/> Follow-up completion on date _____ <input checked="" type="checkbox"/> Will examine each student as s/he graduates</p>

SIUE Undergraduate Assessment and Program Review

SIUE Undergraduate Assessment and Program Review

