**Course Prefix, Number, and Title: PHYS 151, General Physics I**

**Section Number(s): 1001, 1002**

**Department: Science**

**Instructor: Milinda Wasala**

**Academic Year: 2019/2020**

**Semester: Fall 19**

**Is this a GenEd class? Yes**

**Complete and submit your assessment report electronically to your department chair. As needed, please attach supporting documents and/or a narrative description of the assessment activities. You may use as many or as few outcomes as necessary.**

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| **Class/Course Outcomes** | **Assessment Measures** | **Assessment Results** | **Outcome Results Analysis** |
| In the boxes below, summarize the outcomes assessed in your class or course during the last year*.* If this is a GenEd class, include the appropriate GenEd objectives. | In the boxes below, summarize the methods used to assess course outcomes during the last year. Include the criterion you’ll use to judge whether or not students have achieved the expected outcome. | In the boxes below, summarize the results of your assessment activities during the last year. Include your judgement as to whether or not the criterion for student achievement has been met. | In the boxes below, please reflect on this outcome’s results and summarize how you plan to use the results to improve student learning. |
| Outcome #1:  Understand and solve problems related to kinematics (one dimensional and two dimensional) and Newton’s laws of motion | Assessment Measure:  Ch 1-6 Homework  Exam 1  Final Exam  Criterion for achievement:  60% of students earned 80% or above in homework  60% of students earned 60% or above in Exam 1  60% of students earned 60% or above in Final Exam | Results:  100% of students had an aggregate score of 80% or more on Ch1-6 homework.  62% of students had an aggregate score of 60% or more on Exam 1.  88% of students had an aggregate score of 60% or more on Final Exam.  Criterion Met: Yes | 1. Results Analysis:  Homework scores are expected since students spending large amount of time working on problems. Time limit pressure affected on exam scores.  2. Action Plan:  Working on practice exams. |
| Outcome #2:  Understand and solve problems related to work, energy, momentum, rotational dynamics and gravity | Assessment Measure:  Ch 7-12 Homework  Exam 2  Final Exam  Criterion for achievement:  60% of students earned 80% or above in homework  60% of students earned 70% or above in Exam 2  60% of students earned 60% or above in Final Exam | Results:  88% of students had an aggregate score of 80% or more on Ch7-12 homework.  88% of students had an aggregate score of 70% or more on Exam 2.  88% of students had an aggregate score of 60% or more on Final Exam.  Criterion Met: Yes | 1. Results Analysis:  Homework results are expected since this part of the course mathematically more intensive.  2. Action Plan:  Keep this part of the course same. |
| Outcome #3:  understand and solve problems related to harmonic motion, waves and sound, Fluids, Temperature, Heat and Thermodynamics | Assessment Measure:  Ch 13-18 Homework  Exam 3  Final Exam  Criterion for achievement:  60% of students earned 80% or above in homework  60% of students earned 70% or above in Exam 3  60% of students earned 60% or above in Final Exam | Results:  88% of students had an aggregate score of 80% or more on Ch13-18 homework.  75% of students had an aggregate score of 70% or more on Exam 3.  88% of students had an aggregate score of 60% or more on Final Exam.  Criterion Met: Yes | 1. Results Analysis:  Homework and Exam 3 results are expected since this part of the course mathematically more intensive.  2. Action Plan:  Keep this part of the course same. |
| Outcome #4:  **GEN ED, Scientific Reasoning-**  Demonstrate an understanding of the scientific methodologies used in various disciplines | Assessment Measure:  Applicable questions on exams throughout the course  Criterion for achievement:  60% of students with an aggregate score of 70% or better on applicable exam questions | Results:  75% of students had an aggregate score of 70% or more on applicable exam questions  Criterion Met: Yes | 1. Results Analysis:  Expected result  2. Action Plan: |
| Outcome #5:  **GEN ED, Scientific Reasoning-**  Effectively interpret and apply scientific principles and concepts | Assessment Measure:  Applicable questions on exams throughout the course  Criterion for achievement:  60% of students with an aggregate score of 70% or better on applicable exam questions | Results:  75% of students had an aggregate score of 70% or more on applicable exam questions  Criterion Met: Yes | 1. Results Analysis:  Expected result  2. Action Plan: |
| Outcome #6:  **GEN ED, Scientific Reasoning-**  Apply scientific reasoning to the evaluation, analysis, or interpretation of models and theories developed in the sciences | Assessment Measure:  Applicable questions on exams throughout the course  Criterion for achievement:  60% of students with an aggregate score of 70% or better on applicable exam questions | Results:  75% of students had an aggregate score of 70% or more on applicable exam questions  Criterion Met: Yes | 1. Results Analysis:  Expected result  2. Action Plan: |
| Outcome #7:  **GEN ED, Scientific Data Interpretation:**  Effectively apply mathematical principles and quantitative  methods to collect and analyze scientific data | Assessment Measure:  Applicable questions on exams throughout the course  Criterion for achievement:  60% of students with an aggregate score of 70% or better on applicable exam questions | Results:  75% of students had an aggregate score of 70% or more on applicable exam questions  Criterion Met: Yes | 1. Results Analysis:  Expected result  2. Action Plan: |
| Outcome #8:  **GEN ED, Scientific Data Interpretation:**  Utilize the scientific method to arrive at informed conclusions | Assessment Measure:  Applicable questions on exams throughout the course  Criterion for achievement:  60% of students with an aggregate score of 70% or better on applicable exam questions | Results:  75% of students had an aggregate score of 70% or more on applicable exam questions  Criterion Met: Yes | 1. Results Analysis:  Expected result  Follow up:  This is the first time I have taught this course. Even though some concepts are simple, questions could be mathematically more intense. This can be seen from the Pearson homework platform. Some students spent large amount of time on some homework problems. Next year I’ll discuss more in class problems as well as encourage students to use the tutoring facility. |

**Notes:**

I have reviewed this report:

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Department Chair Dean

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Vice President of Academic Affairs and Student Services

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