Grand Valley State University
CLAS Academic Advising Center
C-1-140 Mackinac Hall
616-331-8585
Graduate Teacher Certification Planned Program
Physics Minor – Secondary Education[1,2]

Student Name: Date:

Email Address: G#:

Transfer Institution(s):

Key: ✓ - Completed or In Progress   W - Waived   Highlighted - Still Needs to be Completed

This planned program is based on the requirements in place for the current catalog year 2017-2018. You are subject to the requirements in place for the academic year when you begin to take classes, either at GVSU or elsewhere, and have eight years to complete all requirements under that specific catalog. If you do take courses elsewhere, you will need to provide GVSU with an official transcript upon completion of the courses. To confirm the courses required for completion of your academic and teaching plans, please contact the CLAS Academic Advising Center at 616-331-8585 or advstu@gvsu.edu.

Physics Minor – Required Courses

Course Number	✓	Course Name	Credits	Completed	Scheduled	Grade	Quality Points
PHY 230		Principles of Physics I	5				
PHY 231		Principles of Physics II	5				
PHY 105		Descriptive Astronomy	3				
PHY 302		Introduction to Modern Physics	4				
		7 additional hours of electives from the following courses:					
PHY 309		Experimental Methods in Physics	4				
PHY 311		Advanced Laboratory II	2				
PHY 320		Optics	4				
PHY 330		Intermediate Mechanics	4				
PHY 340		Electromagnetic Fields	4				
PHY 350		Intermediate Modern Physics	4				
PHY 360		Statistical Thermodynamics	4				
PHY 370		Solid State Physics	4				

Total Credits Needed: 24   **Cumulative GPA:_____**

Special Considerations:

[1] All students seeking teacher certification are required to assist for at least 30 clock hours in the department's tutoring program or at least 30 clock hours as a laboratory assistant setting up equipment and demonstrations as well as helping students in a laboratory setting. Required reading and experience in laboratory safety will be part of this laboratory setting.

[2] Most physics courses have math pre-requisites.

Notes:

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Substitutions, Equivalencies, and Waivers Approved By: **Date:**

Prepared By: **Date:**

Academic Departmental Approval (Pending Completion of Highlighted Requirements):   **Date:**