

**Grand Valley State University**  
**CLAS Academic Advising Center**  
**C-1-140 Mackinac Hall**  
**616-331-8585**  
**Teaching Endorsement Planned Program**  
**Physics Minor – Secondary Education<sup>1,2</sup>**

Student Name:

Date:

Email Address:

G#:

Transfer Institution(s):

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

**Physics Minor – Required Courses<sup>1,2</sup>**

| 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       |           |           |       |                |
|               |   | <b>7 additional hours of electives from the following courses:</b> |         |           |           |       |                |
| 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:**

<sup>1</sup> 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.

<sup>2</sup> Most physics courses have math pre-requisites.

**Notes:** \_\_\_\_\_  
 \_\_\_\_\_

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

**Date:**

**Prepared By:**

**Date:**

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

**Date:**