

# Physics (2010-2011)

## General

This is a **general curriculum** guide and is not applicable to every student and is not a replacement for meeting with your advisor.

**-Student is starting in MTH 201-**

Fall Semester – Year One	credits	Winter Semester- Year One	credits
MTH 201: Calculus I ( <i>Gen Ed</i> )	5	MTH 202: Calculus II	4
CHM 115: Principles of Chemistry I ( <i>Gen Ed</i> )	5	PHY 230: Principles of Physics I	5
Gen Ed.	3	WRT 150: Strategies in Writing	4
Gen Ed.	3	Gen Ed.	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
Fall Semester – Year Two	credits	Winter Semester – Year Two	credits
PHY 231: Principles of Physics II	5	PHY 302: Introduction to Modern Physics	4
MTH 203: Calculus III	4	MTH 304: Analysis of Differential Equations*	3
MTH 227: Linear Algebra I	3	CIS 261: Structured Programming in C	3
Gen Ed.	3	Gen Ed.	3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Fall Semester – Year Three	credits	Winter Semester – Year Three	credits
MTH 401: Math for Physical Sciences ***	3	PHY 311: Advanced Laboratory II	2
PHY 309: Experimental Methods in Physics	4	PHY 340: Intermediate Electricity and Magnetism	4
PHY 330: Intermediate Mechanics and Dynamics	4	WRT 305: Writing in the Disciplines <sup>1</sup>	3
Gen Ed. or Theme	3	Gen Ed. or Theme	3
Science Elective**	3	Gen Ed.	3
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>15</b>
Fall Semester – Year Four	credits	Winter Semester – Year Four	credits
PHY 360: Statistical Thermodynamics	4	PHY 350: Intermediate Modern Physics	4
PHY 485: Senior Project I	1	PHY 486: Senior Project II (Capstone)	2
Science Elective**	3	Gen Ed. or Theme	3
Gen Ed. or Theme	3	Gen Ed.	3
Elective	3	Elective	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>15</b>

### Notes:

\* MTH 304 is recommended for students who wish to apply to graduate school. MTH 302: Linear Algebra and Differential Equations may be chosen if graduate school is not being considered. It is recommended that you speak with your Physics Faculty Advisor before making this decision.

\*\* Students must complete 6 hours of science electives with a minimum grade of C (2.0) in each. Must be chosen from the following: PHY 105; any 300 or 400 level physics elective, excluding PHY 303, 306, and 307; CHM 351, 352, 356, or 358.

\*\*\*This course replaces MTH 300 in the major. In Fall 2010, it will be offered for the first time as MTH 480. After that, the course number will change to MTH 401.

<sup>1</sup> Students who pass out of WRT 305 have room to take a GenEd, Theme, or elective course or elective in this semester.

### Special Notes:

- This is a **general** curriculum guide and will not work for everyone, especially those students who have AP or CLEP credit.
- Courses that have (*Gen Ed*) written after them are classes that are required in the major and also fulfill a section of the general education program.
- Remember to fulfill your 2 SWS requirements; 1 can be taken in the gen ed program and 1 in your major.
- Some classes are in multiple sections within the gen ed. If you take a course that can be counted in two categories, you can open up 1-2 more spots for physics electives.
- You must have **120 credits** to graduate from Grand Valley State University.

**It is imperative to meet with your faculty advisor or an advisor in the CLAS Academic Advising Center early in your career. The CLAS Academic Advising Center is located in C-1-140 MAK, 616-331-8585.**

Online at: <http://www.gvsu.edu/clasadvising>  
Prepared by CLAS Academic Advising Center – 2/4/10