

Grand Valley State University
CLAS Academic Advising Center
C-1-140 Mackinac Hall
616-331-8585
Teaching Endorsement Planned Program
Physics Major – Secondary Education¹

Student Name:

Date:

Email Address:

G#:

Transfer Institution(s):

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

Physics Major – 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 302		Introduction to Modern Physics	4				
PHY 309		Experimental Methods in Physics	4				
PHY 311		Advanced Laboratory II	2				
PHY 330		Intermediate Mechanics	4				
PHY 340		Electromagnetic Fields	4				
PHY 350		Intermediate Modern Physics	4				
PHY 360		Statistical Thermodynamics	4				
PHY 485		Senior Physics Project I	1				
PHY 486		Senior Physics Project II	2				
Elective		One upper level elective (300-400 level) ³	varies				
CHM 115		Principles of Chemistry I	4				
CIS 261		Structured Programming in C	3				
MTH 201		Calculus I	4				
MTH 202		Calculus II	4				
MTH 203		Calculus III	4				
MTH 227		Linear Algebra I (if taking MTH 304)	3				
MTH 300		Applied Analysis I	3				
		OR					
MTH 401		Mathematics for the Physical Sciences	4				
MTH 304		Analysis of Differential Equations	3				
		OR					
MTH 302		Linear Algebra & Differential Equations	4				
HSC 201 ²		The Scientific Revolution	3				
		OR					
HSC 202		The Technological Revolution	3				
		OR					
		Similar course with dept. approval	3				
PHY 105		Descriptive Astronomy	3				
BIO 328 ²		Biomedical Ethics	3				
		OR					
BIO 338		Environmental Ethics	3				
		OR					
		Similar course with dept. approval	3				
BIO 120		General Biology I	4				
Elective ³		One 3 credit elective chosen with dept.	3				

Total Credits Needed: 86 – 87

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 HSC 201/202 and BIO 328/338 are the recommended History of Science and Bioethics courses. Students may propose similar courses, if taken elsewhere, to fulfill this requirement.

³ These electives must be chosen from the following: PHY 105 (requirement for secondary certification); any 300 or 400 level physics elective, excluding PHY 303, 306, and 307; CHM 351, 352, 356, or 358.

Notes:

Substitutions, Equivalencies, and Waivers Approved By:

Date:

Prepared By:

Date:

Academic Departmental Approval (Pending Completion of Highlighted Requirements):

Date:

1 copy student; 1 copy CLAS Advising Center File; 1 copy College of Education; 1 copy Major Program Advisor

ENDORSEMENT RECOMMENDATIONS:

Students may return to Grand Valley State University to obtain a post baccalaureate endorsement to append their teaching certificate by adding one or more content area endorsements. Students may choose to add any endorsement for which Grand Valley State University has approval from the Michigan Department of Education (MDE). Students must meet all of the MDE requirements for an endorsement, which includes taking and passing all courses identified on the endorsement planned program (course substitutions will be permitted with prior departmental approval), meeting GVSU GPA program requirements, taking and passing the associated subject area test for the endorsement through the Michigan Test for Teacher Certification and meeting any and all other requirements, which might include, but not be limited to, a criminal background check and providing other university transcripts.

PLEASE NOTE: To be recommended to the Michigan Department of Education by Grand Valley State University to add a content area endorsement to an existing Michigan teaching certificate, the student must be certified at the appropriate level. **Six credits** of the planned program minor and **twelve credits** of the planned program major must be earned at Grand Valley. For a complete list of the content area endorsements that Grand Valley State University offers, please check out the following link to our Grand Valley State University website: <http://www.gvsu.edu/clasadvising/endorsements-87.htm>

Next Steps:

1. Apply to Grand Valley State University if you have undergraduate courses remaining. Click here for a link to the Admissions Application: <http://admissions.gvsu.edu/admissions/undergrad.asp>
2. Successfully complete all coursework
3. Successfully complete the State required test in your endorsement area:
<http://www.mttc.nesinc.com/>
4. All candidates applying for certification must initiate the certification recommendation process by self-registering in the Michigan Online Education Certification System (MOECS) at: www.michigan.gov/moecs.

5. Submit official transcripts from all colleges and universities you have attended (do not resend if Grand Valley has all of your transcripts).

Updated 3.6.2015