

Michigan Tech – Department of Physics - Typical Schedule Secondary Education (SPH1)

Note: Physics majors are expected to be calculus ready upon entering this program. Students with low math ACT or SAT scores should complete a summer course equivalent to MA1032 (possibly by participating in the MaCH-1 program at MTU). **Note:** The following is intended to serve as a guide. Updated October 21, 2008.

Year 1	
<p>Fall Semester</p> <p>PH1160 Honors Physics I (4) PH1161 Intro Experimental Physics I (1) MA1160 Calculus with Tech I (4) CH1110 University Chemistry I (4) CH1111 University Chemistry Lab I (1) UN1001 Perspectives on Inquiry (3)</p> <p>Total 17 Cr</p>	<p>Spring Semester</p> <p>PH1360 Honors Physics II (2) PH1361 Intro Experimental Physics II (1) PH2300 University Physics III (2) MA2160 Calculus with Tech II (4) MA2320 Elem Linear Algebra (2) UN1002 World Cultures (4) PSY2000 Prin of Psychology (3)</p> <p>Total 18 Cr</p>
Year 2	
<p>Fall Semester</p> <p>PH1600 Intro Astronomy (2) PH2010 Sophomore Seminar (1) PH2260 Honors Physics III (4) PH2261 Intro Exper Physics III (1) MA3530 Intro Differential Eqns (3) UN2001 Revisions (3) or UN2002 Institutions (3) Gen Ed Elective (3)</p> <p>Total 17 Cr</p>	<p>Spring Semester</p> <p>PH2230 Electronics (4) PH2400 University Physics IV (3) MA3160 Multivariable Calculus (4) UN2002 Institutions (3) or UN2001 Revisions (3) Teaching Minor (3)</p> <p>Total 17 Cr</p>
Year 3	
<p>Fall Semester</p> <p>PH3110 Theoretical Mechanics I (3) PH3210 Optics (3) PH3320 Methods of Theoretical Physics (3) ED3110 Psych Found of Learning (3) ED3210 Foundations of Education (2) ED3410 Clinical Experience (1) Teaching Minor (3) Gen Ed Elective (3)</p> <p>Total 18 Cr</p>	<p>Spring Semester</p> <p>PH3300 Thermo & Stat Mech (3) PH3410 Quantum Phys I (3) PH3480 Modern Physics Lab (2) ED3100 Instructional Technology (2) PE3985 CPR (1) <i>(or First Aid Certificate)</i> Teaching Minor (3) Gen Ed Elective (3)</p> <p>Total 17 Cr</p>
Year 4	
<p>Fall Semester</p> <p>PH4010 Senior Colloquium I (1) PH4050 Qualitative Methods (1) PH4210 Elec & Magnet I (3) PH4390 Comput Meth in Physics (2) HU4150 Literacy in Content Areas (4) ED4700 Fundamentals of Instruction (3) Teaching Minor (3)</p> <p>Total 17 Cr</p>	<p>Spring Semester</p> <p>ED4710 Methods Teach Science & Math. (3) ED4910 Directed Teaching (12)</p> <p>Total 15 Cr</p>

Plus 3 units of Physical Education activity.