



Undergraduate Degree Map for Completion in Four Years

College:	College of Science, Engineering & Technology <input type="button" value="v"/>
Department:	Physics & Astronomy <input type="button" value="v"/>
Name of Program:	PHYSICS <input type="button" value="v"/>
Degree Designation:	BS <input type="button" value="v"/>
Emphasis/Concentration:	<input type="text"/> <input type="button" value="v"/>
Option:	<input type="text"/>
Version:	<input type="text"/> <input type="button" value="v"/>
Version Explanation:	<input type="text"/>
Type of Program:	Standard Major <input type="button" value="v"/>
Minor Required:	No <input type="button" value="v"/>
Specific Minor (if required):	<input type="text"/>

<p>Program Description:</p> <p>The undergraduate physics program is designed to prepare students for graduate study, for careers in industry or government, or for high school teaching. Degree requirements provide graduates with analytical, problem solving and laboratory skills useful in graduate study, in working for industry or business, or in teaching.</p>
<p>Admission Requirements:</p> <p>a minimum of 32 earned semester credit hours and a minimum cumulative GPA of 2.00 (C)</p>
<p>Advising:</p> <p>You are expected to meet with your advisor on a regular basis to ensure courses are taken in an order that will lead to successful completion of the degree.</p> <p>Each student is required to meet with his or her adviser every semester before registration to talk about academic progress and receive an access code for registration.</p> <p>A complete listing of program faculty, policies, and course descriptions is available in the undergraduate bulletin.</p>

TERM 1 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 15 credit hours

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 15 credit hours
Math	121	Calculus I	4.0	
CS	110	Computer Science I	4.0	
General Education		General Education courses in Goal Area 1 and 2	7.0	

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Term 1 Notes:

If you did not take a physics course in high school, then you need to take Phys 101, Introductory Physics. High school physics and Math 121 with a C grade or better are the prerequisite of Phys 221 next semester.
CS 110 is only offered in fall semesters.

TERM 2 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 30 credit hours Advance to Sophomore status
Math	122	Calculus II	4.0	
Phys	221	General Physics I	4.0	
General Education		Any General Education courses.	7.0	

Insert item

Term 2 Notes:

Math 122, Calculus II, and Phys 221, General Physics I are the prerequisites of Phys 222 and Phys 232. In order to register for these two courses next semester, you must earn a grade of C or better in Math 122 and in Phys 221.
It is beneficial for physics majors to take a chemistry course as one of the general education courses.
Apply for admission to the major by the end of the semester if you have completed 32 credit hours and your GPA is 2.00 or higher.

TERM 3 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67%
Math	223	Calculus III	4.0	
Phys	222	General Physics II	3.0	
Phys	232	General Physics II lab	1.0	
General education		Any general education courses	7.0	Check the Goal Areas for your general education courses.

Insert item

Term 3 Notes:

Phys 232 is the lab part of Phys 222. These two courses must be taken in the same semester.
Apply for admission to the major if you have not done so already.
You need two Diverse culture courses and two writing intensive courses in general education.

TERM 4 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA ≥ 2.0 Course Completion Rate $\geq 67\%$ Completion of ≥ 60 credit hours Advance to Junior status
Math	321	Ordinary Differential Equation	4.0	
Phys	223	General Physics III	3.0	
Phys	233	General Physics III lab	1.0	
Phys	335	Modern Physics I	3.0	
General Education		Any general education courses	4.0	

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Term 4 Notes:

Phys 223 and 233 are only offered in spring semesters. They are also the prerequisite or co-requisites of Phys 335. Phys 335 is the prerequisite of Phys 336. Phys 335 is only offered in spring semesters.

TERM 5 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA ≥ 2.0 Course Completion Rate $\geq 67\%$ Apply for Graduation
Phys	336	Modern Physics II	3.0	
Phys	441	Mechanics	4.0	
Phys	447	Electricity and magnetism I	3.0	
EE	230	Circuit Analysis I	3.0	
EE	240	Evaluation of Circuits	1.0	
General education		Any general education course	1.0	

Insert item

Term 5 Notes:

EE240 and EE230 should be taken in the same semester.

TERM 6 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA ≥ 2.0 Course Completion Rate $\geq 67\%$ Completion of ≥ 90 credit hours Advance to Senior status
Math	247	Linear Algebra I	4.0	
Phys	448	Electricity and Magnetism II	3.0	
Phys	457 or 473	Optics or Statistical Physics	3.0	
Phys	475	Advanced Laboratory	2.0	If not taking in Term 8.
		General education or elective courses	3.0	

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 90 credit hours Advance to Senior status
General education or electives				Check uncovered general education Goal Areas and find the major unrestricted elective course you want to take.

Insert item

Term 6 Notes:

Math 247 is the prerequisite of Phys 461.
Phys 457, Phys 473 and Phys 475 are offered in alternating spring semesters. If one of these courses is not offered this semester, you will need to take it in Term 8.
Note that the unrestricted elective courses are 300 or 400 level courses. They have prerequisites. We strongly encourage you to take Math 354 or Math 422.
You need two Diverse culture courses and two writing intensive courses in general education.
Apply for graduation

TERM 7 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67%
Phys	461	Quantum Mechanics	4.0	
Phys	465	Computer application in Physics	3.0	
General education or electives		General education or elective courses	8.0	Check uncovered general education Goal Areas and take the elective course you want to take.

Insert item

Term 7 Notes:

You need to take at least 4 credit hour upper division course (s) which are not required by the major in order to meet the minimum 40 credit upper division requirement by the university.

TERM 8 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67%
Phys	473 or 457	Statistical Physics or Optics	3.0	
Phys	492	Seminar	1.0	
Phys	475	Advanced Laboratory	2.0	If not taken in Term 6.
General education or electives		General education or elective courses	11.0	Complete the general education courses in all Goal Areas.

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Term 8 Notes:

Phys 457, Phys 473 and Phys 475 are offered in alternating spring semesters. If one of these courses is not offered this semester, you will need to take it in Term 6.

PROGRAM NOTES

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DEGREE MAP CHECKLIST: GRADUATION REQUIREMENTS

<input checked="" type="checkbox"/>	1. Minimum of 15 credits per semester
<input checked="" type="checkbox"/>	2. General Education = 44 credits
<input checked="" type="checkbox"/>	3. Diverse Cultures = 2 course (6 credits minimum) from two disciplines
<input checked="" type="checkbox"/>	4. Writing Intensive = 2 courses (6 credits minimum)
<input checked="" type="checkbox"/>	5. Major = <input type="text" value="76"/> credits
<input checked="" type="checkbox"/>	6. Upper-Division Requirements = 40 credits minimum
<input type="checkbox"/>	7. Professional Education (if required) = 30 credits
<input type="checkbox"/>	8. Language Requirements (if BA) = 8 credits minimum
<input type="checkbox"/>	9. Minor = <input type="text"/> credits
<input checked="" type="checkbox"/>	10. Total credits required for degree <input type="text" value="120"/>

DEGREE MAP COMPLETE

<input checked="" type="checkbox"/>	<p>Map is complete and ready for review</p> <ol style="list-style-type: none"> 1. Faculty please send an email to your Department Chair when map is ready to review. 2. Department Chair please send an email to your Dean when map is ready to review. 3. Dean please send an email to the Assistant Vice President for Undergraduate Studies when map is ready to review.
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DEAN APPROVAL

<input checked="" type="checkbox"/>	Map reviewed and approved by Dean
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Save and Close