PHYSICS PRE-MAJOR

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The following pre-major is recommended for students who are considering completing a Bachelor's degree in Physics after transferring to a four-year institution. It is designed for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to consult the Office of Advising, Transitions, and Student Success and the transfer institution's catalog to select courses that will meet both Oakton and transfer institution requirements.

For more information on course selection or program-specific advising, contact the department chair. Part time students should also consult the Office of Advising, Transitions, and Student Success for part-time pre-major recommendations. General Education courses should be selected from the list of IAI General Education Courses.

	Total Hours	63-65
	Hours	17-18
Select one Social and Beha 3	avioral Sciences course from a discipline not taken previously	3
Select one Fine Arts course		3
PHY 230	Optics	
PHY 141	Fundamentals of Nanotechnology II	
PHY 140	Fundamentals of Nanotechnology I	
MAT 262	Ordinary Differential Equations	
MAT 260	Introduction to Linear Algebra	
CSC 170 & CSC 174	Introduction to Numerical Methods and Python Programming for Engineers	
CSC 170 & CSC 173	Introduction to Numerical Methods and Java Programming for Engineers	
CSC 170 & CSC 171	Introduction to Numerical Methods and C++ Programming for Engineers	
Select one of the following:	· ·	3-4
PHY 223	Modern Physics	4
CHM 122	General College Chemistry II	4
Semester Two	nouis	15
Select one Social and Bena	Hours	15
PHY 222 Select one Social and Beha	General Physics II	5
MAT 252	Calculus III	2
SPE 103	Effective Speech	3
Semester One		
Second Year		
	Hours	15-16
or another Humanities	course ³	
Select one Modern Langua	ge (202 ¹ or higher) ²	3-4
PHY 221	General Physics I	5
MAT 251	Calculus II	4
EGL 102	Composition II	3
Semester Two	Hours	16
CHM 121	General College Chemistry I	4
BIO 121	General College Biology I	4
MAT 250	Calculus I	5
EGL 101	Composition I	3
Semester One		Hours
First Year		

Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.

- ² Transfer institutions may have a language requirement. Any Modern Language Intermediate II course can meet the Humanities and Global Studies requirements.
- When choosing Social and Behavioral Studies and Humanities/Fine Arts courses, please select at least one course that also satisfies Global Studies requirement and one course that also satisfies the U.S. Diversity requirement.

Note: Pre-major is a recommended sequence and selection of courses. See Associate in Science (A.S.) page for degree requirements.