

ASSOCIATE IN SCIENCE: PHYSICS PRE-MAJOR



CONTACT US

For general questions, contact:

advising@swic.edu

For Physics questions, contact:

Stan.Hatfield@swic.edu;

618-222-5364

AREA OF INTEREST

Science, Technology, Engineering, & Mathematics

TOTAL CREDITS REQUIRED

64

CATALOG YEAR

2022-2023

PROGRAM

Associate in Science

TYPE

Transfer

ACADEMIC PLAN

0002

TUITION

\$8,128 plus books fees

CAMPUS LOCATIONS

Belleville

Sam Wolf Granite City

Red Bud Online



DESCRIPTION

Physics seeks to understand the very basic concepts of force, energy, mass and charge. It is a broad and deep subject split into theoretical and experimental branches. Theoretical physics deals with the inquiry and formulation of new theories while experimental physics tests and analyzes these or previously existing theories. Physics relies extensively on sophisticated mathematics to provide its framework of study.



EMPLOYMENT OPPORTUNITIES

A variety of careers are open to students who graduate with a bachelor's degree in physics including:

Nuclear engineer	Geologist
Atomic physicist	Architect
Medical physicist	Audio engineer
Aerospace engineer	Electrical engineer
Civil engineer	Teacher

Career Information for Physics Majors



COURSE SEQUENCE BY TERM

The following is the suggested course sequence by term. Please keep in mind:

- The course sequence is laid out by suggested term and may be affected when students enter the program at different times of the year.
- Initial course placement is determined by current district placement measures and/or completion of 100-200 level course and/or program requirements.
- Students should meet with an academic advisor about any concerns that may affect course enrollment.
- **This guide includes course suggestions for students undecided on where they plan to transfer. If you know where you are transferring to for your bachelor's, follow that institution's transfer requirements.**

ASSOCIATE IN SCIENCE: Physics

Student's Name: _____

Date: _____



Course #	Course Name	Requisites	Taken	Credits
Term 1				
COMM 151	<i>Public Speaking</i>			3
ORIE 110	<i>College Success Strategies</i>			3
ENG 101	<i>Rhetoric & Comp I</i>			3
BIOL 100	<i>General Biology</i>			4
MATH 112**	<i>College Algebra**</i>			4
Term 2				
ENG 102	<i>Rhetoric & Composition II</i>	<i>Grade of C or higher in ENG 101</i>		3
MATH 114	<i>Trigonometry</i>	<i>Grade of C or higher in MATH 112</i>		3
ART 103/MUS 110	<i>Non-western Art OR World Music</i>			3
HES 151	<i>Personal Health & Wellness</i>			2
CHEM 105	<i>General Chemistry</i>	<i>CHEM 101 with C or higher; OR 1 year of HS CHEM WITH C or higher</i>		5
Term 3				
HUM*	<i>General Humanities*</i>			3
MATH 203	<i>Analytic & Geometry Calc I</i>	<i>Grade of C or higher in MATH 114</i>		5
CHEM 106	<i>General Chemistry II</i>	<i>Grade of C or higher in CHEM 105</i>		5
SOC 153	<i>Intro to Sociology</i>			3
Term 4				
MATH 204	<i>Analytic & Geometry Calc II</i>	<i>Grade of C or higher in MATH 203</i>		5
PHYS 204	<i>Physics – Mechanics</i>	<i>Grade of C or higher in MATH 203</i>		4
ELECT*	<i>Transfer Elective*</i>			3
S/S*	<i>Social Science*</i>			3
TOTAL:				64

*See Academic Advisor for course options.

**If student places higher than Math 112 through multiple measures OR placement test, please see Academic Advisor for different plan.

GET STARTED

Find the [Steps to Enrollment](#) on SWIC.edu

CHOOSE A TRANSFER SCHOOL

[SIUE Physics Pathway](#)

4/5/2022