

Department of Chemistry and Physics-Physics Program
Example Sequence for the APPLIED PHYSICS Major
Transfer Student

This table shows a possible sequence of courses for an applied physics major after one year at a Virginia community college (VCCS). Our course offerings vary year to year, however, and your actual sequence will depend on what is being offered. On the following page is the anticipated rotation of upper level courses for 2023-2024 through 2026-2027.

APPLIED PHYSICS Example Schedule		
Year	Course	Credits in the major
1 st Year	PHYS 105 (VCCS PHY241)	4
	PHYS 106 (VCCS PHY241)	4
	MATH 121 (VCCS MTH273)	-
	MATH 122 (VCCS MTH273)	-
	TOTAL	8
Fall 2 nd Year	PHYS 211	3
	PHYS 317	3
	MATH elective ^b	3 or 4
Spring 2 nd Year	PHYS 201	3
	PHYS elective ^c	3 to 4 (see note c)
	TOTAL	15-17
Fall 3 rd Year	PHYS 283 ^d	4
	PHYS elective ^c	3 to 4
Spring 3 rd Year		
	TOTAL	7-8
Fall 4 th Year		2
Spring 4 th Year		
	2rd through 4th Years Total	24 to 27
	MAJOR TOTAL	32 to 35
a) Offered in fall		
b) Three (3) to four (4) credits are required from MATH 224, 312, 330, 411 OR CSPC 110		
c) Six (6) or eight (8) credits are required from: PHYS 210, 292, 320, 330, 410, 471, or 472		
d) Offered in alternating years and/or based on demand. Actual timing of these courses may vary from what's shown in chart.		

For further information or detail, contact:
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APPLIED PHYSICS MAJOR

Anticipated Rotation for Physics Courses Fall 2023 through Spring 2027

IMPORTANT Based on staffing and other factors, the rotation might change. It is critical that you meet with your physics major advisor each semester before registering for courses to ensure that your degree completion plan is solid.

REQUIRED COURSES IN PHYSICS

CRS	NAME	CR	ATR	PREREQ	F23	S24	F24	S25	F25	S26	F26	S27
105	General Physics I	4	WI									
106	General Physics II	4	WI									
211	Modern Physics	3		106								
317	Methods of Mathematical Physics	3		106								
384	Advanced Lab	4	WI	211								
482	Seminar	2	SI	senior								
283	Electronics	4		106								
201	Thermodynamics	3		106								

ELECTIVE COURSES IN APPLIED PHYSICS (6-8 credits of these needed for the major)

CRS	NAME	CR	ATR	PREREQ	F23	S24	F24	S25	F25	S26	F26	S27
210	Nuclear	3		106		TBA	TBA	TBA	TBA	TBA	TBA	TBA
292	Optics	4		106								
319	Astrophysics	4		211,317		TBA		TBA	TBA	TBA		TBA
471	Selected Topics in Physics	1-3		TBD		TBA	TBA	TBA	TBA	TBA	TBA	TBA

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