

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

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

PHYSICS Example Schedule		
Year	Course	Credits in the major
1 st Year	PHYS 105 (PHY241 ^d VCCS)	4
	PHYS 106 (PHY242 ^d VCCS)	4
	MATH 121 (MTH273 VCCS)	-
	MATH 122 (MTH274 VCCS)	-
	TOTAL	8
Fall 2 nd Year	PHYS 211 ^a	3
	PHYS 317 ^a	3
	MATH 224 (recommended)	-
Spring 2 nd Year	PHYS 330 ^c	4
	PHYS elective ^b	3 to 4 (see note b)
	TOTAL	13-14
Fall 3 rd Year	PHYS 384 ^c	4
	MATH 312 (recommended)	-
Spring 3 rd Year	PHYS 320 ^c	4
	PHYS elective ^b	3 to 4 (see note b)
	TOTAL	11-12
Fall 4 th Year	PHYS 482 ^a	2
Spring 4 th Year	PHYS 410 ^c	4
	PHYS elective ^b	3 to 4 (see note b)
	2nd through 4th years total	33-36
	MAJOR TOTAL	41 (minimum)
a) Offered in fall		
b) Nine (9) credits of electives are required from: PHYS201, 210, 283, 292, 471, or 472		
c) Offered in alternating years and/or based on demand. Actual timing of these courses may vary from what's shown in the chart because of this.		

For further information or detail, contact:
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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	University Physics I	4	WI									
106	University Physics II	4	WI									
211	Modern Physics	3		106								
317	Methods of Mathematical Physics	3		106								
320	Classical Mechanics	4		211,317								
330	E&M	4		211,317								
384	Advanced Lab	4	WI	211								
410	Quantum Mechanics	4		211,317								
482	Seminar	2	SI	Senior								

ELECTIVE COURSES IN PHYSICS (9 credits of these needed for the major)

CRS	NAME	CR	ATR	PREREQ	F23	S24	F24	S25	F25	S26	F26	S27
201	Thermodynamics	3		106								
210	Nuclear	3		106		TBA	TBA	TBA	TBA	TBA	TBA	TBA
283	Electronics	4		106								
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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