

Physics, B.S. **Teaching Concentration**

2022-2023 Catalog

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Academic Advising Center

The recommended four-year plan is designed to provide a blueprint for students to complete their degrees within four years. These plans include the recommended sequences of courses. Indiviual plans will vary based on previously earned credit such as Dual Enrollment and AP credit as well as student's academic goals. Students will work with an Academic Advisor to develop a more individualized plan to complete their degree.

The GC Journeys Program will transform your way of thinking and experiencing college. By participating in five inside and outside the classroom transformative experiences during your time at Georgia College, you will step outside of your usual surroundings, gain authentic experiences, solve problems, become a leader, participate in real-world settings and put ideas into action.

All students will complete the First-Year Experience, Career Planning Milestones, and a Capstone course in your major. Students will choose two additional experiences from: Intensive Leadership Experiences, Mentored Undergraduate Research, Community-Based Engaged Learning, Internships, and Study Abroad/Study Away.

This recommended Four-Year Plan is applicable to students admitted during the 2022-2023 academic year.

Total Credits Required: 120 credits

Required GPA for Graduation: 2.0 (overall)

Legend is available on the last page of this document.

					Year 1						
Fall					Spring						
Course	Title	Hours	Area	✓	Course	Title	Hours	Area	√		
PHYS 0001	First-Year Academic Seminar	1			PHYS 2211	Principles of Physics I	3	D/F			
ENGL 1101	English Composition I	3	Α		PHYS 2211L	Principles of Physics I Lab	1	D/F			
PHYS 1012	Techniques of Phyics II	4	F		MATH 1262	Calculus II	4	D			
MATH 1261	Calculus I	3	Α		ENGL 1102	English Composition II	3	Α			
GC1Y 1000	Critical Thinking	3	В		CHEM 1211K	Principles of Chemistry I	4	F			
Semester Hours 14			Semester Hours	15							
Summer	Summer is a good time to get ahead of	n courses.	Several of	ore o	courses are offered onlin	ne over the summer terms.					
Notes:	Area A and GC1Y 1000 must be comp PHYS 0001 does not count toward 120										

					Year 2						
	Fall					Spring					
Course	Title	Hours	Area	✓	Course	Title	Hours	Area	✓		
PHYS 2920	Sophomore Seminar*	0	Major		PHYS 2999	Introduction To Physics Research	1	Major			
PHYS 2212	Principles of Physics II	3	D/F		PHYS 3005	Mechanics**	3	Major			
PHYS 2212L	Principles of Physics II Lab	1	D/F		PHYS 3100L	Electronics Lab**	1	Major			
MATH 2263	Calculus III	4	Major		MATH 3030	Foundations of Mathematics	3	Major			
CHEM 1212K	Principles of Chemistry II	4	F		GC2Y 2000	Global Perspectives	4	В			
Core Choice	Area C1: Humanities & Ethics	3	С		ASTR 1000	Introduction to Astronomy	3	F			
					ASTR 1000L	Introduction to Astronomy Lab	1	F			
	Semester Hours 15				Semester Hours	16					

Student must complete a Foreign Language at the 1002 level or higher. Complete the WebCape (https://www.gcsu.edu/artsandsciences/wlc/testing) to determine placement for first course.

GC2Y 2000 must be taken between 30-59 earned hours. Notes:

*Only offered in the Fall "Only offered in the Spring

					Year 3						
	Fall					Spring					
Course	Title	Hours	Area	✓	Course	Title	Hours	Area	✓		
PHYS 3920	Physics Seminar I*	0	Major		MAED 3121	Number/Algebra Secondary Math**	3	Major			
PHYS 3010	Modern Physics*	3	Major		EDUC 2120	Exploring Socio-Cultural Perspectives	3	Major			
PHYS 3100	Electricity and Magnetism*	3	Major		BIOL 1107 or BIOL 1108	Principles of Biology I or II	3	F			
EDUC 2110	Investigating Critical Issues in Education	3	Major		Biol 1107L or BIOL 1108L	Principles of Biology I or II Lab	1	F			
MAED 3119	Geom./Measure in Secondary Math*	3	Major		Foreign Lang	FORL 1002	3	Major			
Core Choice	Area C2: Fine Arts	3	С		Core Choice	Area E: Social Science Choice 1	3	Е			
	Semester Hours	15			S	l Gemester Hours	16		 		
Notes:	*Only offered in the Fall	•		•			•				

	Year 4									
Fall					Spring					
Course	Title	Hours	Area	✓	Course	Title	Hours	Area	✓	
PHYS 3140	Thermodynamics*	3	Major		PHYS 4920	Senior Seminar**	0	Major		
PHYS 4960	Internship	4	Major		PHYS 4600L	Advanced Physics Lab**	3	Major		
Capstone	Capstone Course	3	Major		PHYS 4999	Research	1	Major		
EDUC 2130	Exploring Learning & Teaching	3	Major		EDIS 4425	Seminar: Exp. Teach. Math & Sci. Maj.**	3	Major		
Elective	Any 1000-4000 level electives	4	Elective		Core Choice	Area E: Social Science Choice 2	3	Е		
					Core Choice	Area E: Social Science Choice 3	3	E		
	Semester Hours	17				Semester Hours	13			
Notes:	Capstone Course Options: ASTR: 3020, 3400 CHEM: 4212, 4212L MATH: 4081, 4261, 4262, 4300, 4650, *Only offered in the Fall **Only offered in the Spring									

	Legend
Area	This section of the plan references the area of the curriculum the course fulfills.
Α	Core Area A: Communication and Quantitative Skills
В	Core Area B: Institutional Options
С	Core Area C: Humanities and Fine Arts
D	Core Area D: Science, Technology, and Math
E	Core Area E: Social Sciences
F	Core Area F: Major Directed Core
Major	Major Required Course
Elective (Elec)	Course(s) a student selects. Hours are needed meet overall graduation hours. Number of electives varies per major. Electives can be used towards GC Journeys, minors, professional/graduate school pre-requisites or to take courses of interest.

Cognate courses are required courses within a students curriculum. These courses are connected to the major but may be from other academic disciplines.

Cognate