



BACHELOR OF SCIENCE IN PHYSICS

Fall - Year 1	Course	Course Description	Credits	Prerequisites	Offered
	AMH 2020 or ANT 2000 or ECO 2013 or POS 2041 or PSY 2012 or SYG 2000	State Core Gen Ed Requirement in Social Sciences	3		Fa, Sp, Su
	ARH 2000 or HUM X020 or LIT 2000 or MUL 2010 or PHI 1010 or THE 2000	State Core Gen Ed Requirement in Humanities	3		Fa, Sp, Su
	MAC 2311	Calculus I	4	MAC 1147 or MAC 2157 or ACU5 min. score of 087	Fa, Sp, Su
	STA 2023	Statistical Methods	3	MAT 1033 or MAC 1105 or MAC 1147 or MAC 2233 or MGF 1107 or MGF 1106 or S02 min. score of 550 or A02 min. score of 24 or ACU4 min. score of 090 or ERT4 min. score of 123	Fa, Sp, Su
	ENC 1101	Composition 1	3	A01 min. score of 17 or S01 min. score of 440 or ACU 1 min. score of 083 or ERT 1 min. score of 103	Fa, Sp, Su
	Total Credits for Semester:	16			

Spring - Year 1	Course	Course Description	Credits	Prerequisites	Offered
	CHM 1045/L	General Chemistry I/lab	4	MAC 1105, 1147, 2311, 2157, or ACU5 with minimum score of 066	Fa, Sp, Su
	PHY 2048/L	General Physics I/lab	4		
	MAC 2312	Calculus II	4	MAC 2311	Fa, Sp, Su
	ENC 1102	Composition II	3	ENC 1101	Fa, Sp, Su
	Total Credits for Semester:	15			

Fall - Year 2	Course	Course Description	Credits	Prerequisites	Offered
	MAC 2313	Calculus III	4		
	CHM 1046	General Chemistry II/lab	4		
	PHY 2049/L	General Physics II/lab	4		
	XXX XXXX	General Education Course in Humanities**	3		Fa, Sp, Su
	Total Credits for Semester:	17			

Spring - Year 2	Course	Course Description	Credits	Prerequisites	Offered
	XXX XXXX	Free General Elective	3		Fa, Sp
	XXX XXXX	Free General Elective	3		Fa, Sp
	XXX XXXX	General Education Course in Social Sciences**	3		Fa, Sp, Su
	XXX XXXX	General Education Course in Humanities**	3		Fa, Sp, Su
	Total Credits for Semester:	12			

NOTES:

* Assumes student arrives ready for Calculus I (MAC 2311) and Statistical Methods (STA 2023)

** Students must complete 6 hours of Intercultural Knowledge coursework (INKN) from within the Social Sciences, Humanities or Natural Sciences and they must satisfy the Civic Literacy requirement: <https://www.fgcu.edu/testing/programs/civic-literacy-exam>. In addition to Composition I & II, students must complete 6 hours of College Level Writing Skills (CLWS) from within the Social Sciences or Humanities categories or from Colloquium with a "C" or higher.

For additional information, see: <https://webdev.fgcu.edu/cas/departments/cphy/physicsbs/index.aspx>



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	Course	Course Description	Credits	Prerequisites	Offered
Fall - Year 3	PHY 3221	Intermediate Mechanics	4		
	PHY 1024	Exploring Majoring in Physics	1		
	MAS 3105	Linear Algebra	3		
	MAP 2302	Differential Equations	3		
	XXX 3XXX/4XXX	Upper Level Elective	2	see course description in catalog	Fa, Sp
	XXX 3XXX/4XXX	Upper Level Elective	3	see course description in catalog	Fa, Sp
		Total Credits for Semester:		16	

	Course	Course Description	Credits	Prerequisites	Offered
Spring - Year 3	MAP 3161	Math for Science & Engineering	4		
	PHY 3323	Electricity and Magnetism I	3		
	PHY 3101	Intro to Modern Physics	3		
	PHY 4151C	Computational Physics	4		
	XXX 3XXX/4XXX	Upper Level Elective	3		Fa, Sp
		Total Credits for Semester:		17	

	Course	Course Description	Credits	Prerequisites	Offered
Fall - Year 4	PHY 3513	Thermal-Statistical Physicd	3		
	PHY 4821L	Advanced Physics Laboratory	2		
	IDS 3920	University Colloquium	3	Meets Communication Skills requirement	Fa, Sp, Su
	PHY 4911	Senior Project in Physics	3		
	XXX 3XXX/4XXX	AST 3211 Essentials of Astrophysics OR PHY 3xxx (3940) Internship in Physics OR PHY 4905 Directed Independent Study OR PHY 4910 Directed Independent Research OR PHY 4930 Special Topics in Physics	3	see course description in catalog	Fa, Sp
		Total Credits for Semester:		14	

	Course	Course Description	Credits	Prerequisites	Offered
Spring - Year 4	PHY 4949	Senior Capstone in Physics	3		
	PHY 4931	Senior Project Presentation	1		
	PHY 4604	Introduction to Quantum Theory	3		
	XXX 3XXX/4XXX	AST 3211 Essentials of Astrophysics OR PHY 3xxx (3940) Internship in Physics OR PHY 4905 Directed Independent Study OR PHY 4910 Directed Independent Research OR PHY 4930 Special Topics in Physics	3	see course description in catalog	
	XXX 3XXX/4XXX	Upper Level Elective	2	see course description in catalog	Fa, Sp
		Total Credits for Semester:		13	

Total Credits for Degree: 120

Course Type

General Education
Common Prerequisites
Strongly Recommended Gen Ed
Required in the Major
Critical Course for the Major
Milestones for the Major
Restricted Electives
University Requirement
General Electives

Note: FGCU requires that students who enter with fewer than 60 semester hours of credit must enroll in a minimum of 9 semester credit hours of coursework during one or more summer sessions prior to graduation. Therefore any of the courses listed in the fall and spring semesters above may be completed during a summer session. The total credits for the degree still add up to 120.

Summer	Course	Course Description	Credits	Prerequisites	Semester Offered
	XXX XXXX	Any Courses Listed Above	varies	varies	Su
			≥ 9		