

Degree Worksheet for the College of Arts and Sciences: 2021-2022

B.S. PHYSICS

COLLEGE of ARTS & SCIENCES Language Requirement

All students who major in the College of Arts & Sciences are required to demonstrate competence in a second language. For complete details: <https://www.gonzaga.edu/college-of-arts-sciences/about/information-for-students/language-requirement-information>

Credits Sem/Yr

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UNIVERSITY CORE REQUIREMENTS:

► FUNDAMENTAL CORE COURSES

Year 1: Understanding & Creating

<i>Writing</i>		Credits Sem/Yr
ENGL 101 Writing	(fulfills 3 credits Writing Enriched)*	3
<i>Reasoning</i>		
PHIL 101 Reasoning		3
<i>First Year Seminar</i>		
Dept. 193		3
<i>Communication & Speech</i>		
COMM 100 Communication & Speech		3
<i>Math</i>		
MATH	(must be above Math 100)	3
<i>Scientific Inquiry (2cr + 1cr lab)</i>		
BIOL or CHEM or PHYS 104/104L	(taken year 1 or 2)	3

Year 2: Being & Becoming

<i>Christianity & Catholic Traditions</i>		Credits Sem/Yr
RELI	(see approved list)**	3
<i>Philosophy of Human Nature</i>		
PHIL 201 Philosophy of Human Nature		3

Year 3: Caring & Doing

<i>World/Comparative Religion</i>		Credits Sem/Yr
RELI	(see approved list)** (fulfills 3cr Global Studies)*	3
<i>Ethics</i>		
PHIL 301 Ethics or RELI 330 Principles-Christian Morality		3

Year 4: Imagining the Possible

<i>Core Integration Seminar</i>		Credits Sem/Yr
Dept. 432		3

NOTE: some courses have pre-requisites, check the catalog carefully!

► BROADENING COURSES - see approved list**

<i>Social & Behavioral Science</i>		Credits Sem/Yr
		3
<i>Literature</i>		
		3
<i>History</i>		
		3
<i>Fine Arts & Design</i>		
		3

► REQUIRED COURSE DESIGNATIONS - see approved list**

<i>*Writing Enriched</i>		Credits Sem/Yr
		9 total
<i>Social Justice</i>		
		3 total
<i>*Global Studies</i>		
		6 total

****for list of approved RELI, Broadening & Designated courses, see :**
<https://my.gonzaga.edu/academics/undergraduate-programs/general-degree-requirements-procedures/university-core>

B.S. PHYSICS:

54 CREDITS

LOWER DIVISION

34 Credits

Course	Course Title	Credits	Grade
PHYS 103	Scientific Physics I	4	
PHYS 103L	Scientific Physics I Lab	1	
PHYS 204	Scientific Physics II	4	
PHYS 204L	Scientific Physics II Lab	1	
PHYS 205	Modern Physics	3	
PHYS 208	Computational Physics	2	
PHYS 210	Introduction to Linear Electronics	2	
PHYS 217	Modern Physics Lab	2	
CHEM 101	General Chemistry	3	
CHEM 101L	General Chemistry Lab	1	
CPSC 121	Computer Science I	3	
MATH 157	Calculus & Analytical Geometry I	4	
MATH 258	Calculus & Analytical Geometry II	4	

UPPER DIVISION

20 Credits

Course	Course Title	Credits	Grade
PHYS 300	Mathematical Methods	3	
PHYS 301	Intermediate Mechanics	3	
PHYS 306	Electricity & Magnetism	3	
PHYS 310	Intermediate Laboratory	2	
PHYS 464	Introduction to Quantum Physics	3	

Two of the following courses:

6 Credits

Course	Course Title	Credits	Grade
PHYS 307	Optics	3	
PHYS 402	Advanced Mechanics	3	
PHYS 407	Electricity & Magnetism II	3	
PHYS 409	Nuclear & Particle Physics	3	
PHYS 412	Biophysics	3	
PHYS 415	Cosmology & Astrophysics	3	
PHYS 450	Statistical Physics	3	

Physics Majors are also encouraged to take:

Course	Course Title	Credits	Grade
MATH 259	Calculus/Analytical Geometry III	4	
MATH 260	Ordinary Differential Equations	3	
MATH 339	Linear Algebra	3	

and additional CPSC (Computer Science) courses.