

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

B.A. 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

	Credits Sem/Yr
	Credits Sem/Yr

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 <input type="text"/>
<i>Reasoning</i>	
PHIL 101 Reasoning	3 <input type="text"/>
<i>First Year Seminar</i>	
Dept. 193	3 <input type="text"/>
<i>Communication & Speech</i>	
COMM 100 Communication & Speech	3 <input type="text"/>
<i>Math</i>	
MATH (must be above Math 100)	3 <input type="text"/>
<i>Scientific Inquiry (2cr + 1cr lab)</i>	
BIOL or CHEM or PHYS 104/104L (taken year 1 or 2)	3 <input type="text"/>

Year 2: Being & Becoming

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

Year 3: Caring & Doing

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

Year 4: Imagining the Possible

<i>Core Integration Seminar</i>	Credits Sem/Yr
Dept. 432	3 <input type="text"/>

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

► BROADENING COURSES - see approved list**

Social & Behavioral Science	Credits Sem/Yr
	3 <input type="text"/>
Literature	
	3 <input type="text"/>
History	
	3 <input type="text"/>
Fine Arts & Design	
	3 <input type="text"/>

► REQUIRED COURSE DESIGNATIONS - see approved list**

*Writing Enriched	Credits Sem/Yr
	9 total <input type="text"/>
Social Justice	
	3 total <input type="text"/>
*Global Studies	
	6 total <input type="text"/>

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

B.A. PHYSICS:

54 CREDITS

The B.A. degree in Physics is intended to better allow College of Arts & Sciences students to complete double majors. Students who earn a B.A. in Physics must also be earning a B.A. in another College of Arts & Sciences Dept.

LOWER DIVISION

34 Credits

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

UPPER DIVISION

20 Credits

Course	Course Title	Credits	Grade
PHYS 300	Mathematical Methods	3	<input type="text"/>
PHYS 301	Intermediate Mechanics	3	<input type="text"/>
PHYS 306	Electricity & Magnetism	3	<input type="text"/>
PHYS 310	Intermediate Laboratory	2	<input type="text"/>
PHYS 464	Introduction to Quantum Physics	3	<input type="text"/>

Two of the following courses:

6 Credits

Course	Course Title	Credits	Grade
PHYS 307	Optics	3	<input type="text"/>
PHYS 402	Advanced Mechanics	3	<input type="text"/>
PHYS 407	Electricity & Magnetism II	3	<input type="text"/>
PHYS 409	Nuclear & Particle Physics	3	<input type="text"/>
PHYS 412	Biophysics Systems & Modeling	3	<input type="text"/>
PHYS 415	Cosmology & Astrophysics	3	<input type="text"/>
PHYS 450	Statistical Physics	3	<input type="text"/>

Physics Majors are also encouraged to take:

Course	Course Title	Credits	Grade
MATH 259	Calculus/Analytical Geometry III	4	<input type="text"/>
MATH 260	Ordinary Differential Equations	3	<input type="text"/>
MATH 339	Linear Algebra	3	<input type="text"/>

and additional CPSC (Computer Science) courses.