College of Arts and Sciences 2024-2025 Degree Worksheet

B.S. PHYSICS with MEDICAL PHYSICS CONCENTRATION

B.S. PHYSICS:

with Medical Physics Concentration

Physics Disciplinary Base Courses

66 CREDITS

49 Credits

17 Credits

4 3

3

Credits Grade

Credits Grade

3

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: <a href="https://www.gonzaga.edu/college-of-arts-sciences/about/information-for-twdnt/language.roguirement-information-for-twdnt/language.rogui

requirements-procedures/university-core

students/language-requirement-information_		Lower Level
	Credits Sem/Yr	Course Course Title
		PHYS 121/121L Scientific Physics I + Lab
		PHYS 122/122L Scientific Physics II + Lab
		PHYS 180 Physics Skills Seminar
UNIVERSITY CORE REQUIREMEN	ITS:	PHYS 201 Mathematical Methods
FUNDAMENTAL CORE COURSES		PHYS 222 Electronics
Year 1: Understanding & Creating		PHYS 224 Modern Physics
Writing	Credits Sem/Yr	PHYS 280 Physics Pathways Seminar
ENGL 101 Writing (fulfills 3 credits Writing Enriched)*	3	MATH 157 Calculus & Analytical Geometry I
Reasoning	<u> </u>	MATH 258 Calculus & Analytical Geometry II
PHIL 101 Reasoning	3	CPSC 121 Computer Science I
First Year Seminar	J	CI SC 121 Computer Science i
	3	Henor Loyal
Dept. 193 Communication & Speech	3	Upper Level
•	2	
COMM 100 Communication & Speech	3	PHYS 322 Electricity & Magnetism
Math		PHYS 323 Statistical Mechanics
MATH (must be above Math 100)	3	PHYS 324 Quantum Mechanics
Scientific Inquiry (2cr + 1cr lab)		PHYS 325 Computational Physics
BIOL or CHEM or PHYS 104/104L (taken year 1 or 2)	3	PHYS 441 Advanced Lab I
Year 2: Being & Becoming		PHYS 442 Advanced Lab II
Christianity & Catholic Traditions	Credits Sem/Yr	
RELI (see approved list)**	3	
Philosophy of Human Nature		Medical Physics Concentration
PHIL 201 Philosophy of Human Nature	3	CHEM 101/101L General Chemistry + Lab
Year 3: Caring & Doing		BIOL 105/105L Info Flow in Biological Systems+Lab
World/Comparative Religion	Credits Sem/Yr	HPHY 241/241L Human Anatomy-Physiology+Lab
RELI (see approved list)** (fulfills 3cr Global Studies)	* 3	PHYS 454 Nuclear & Particle Physics
Ethics		PHYS 456 Biophysical Systems & Modeling
PHIL 301 Ethics or RELI 330 Principles-Christian Morali	tv 3	
Year 4: Imagining the Possible	., .	
Core Integration Seminar	Credits Sem/Yr	
Dept. 432	3	Recommended, but not required:
NOTE: some courses have pre-requisites, check the catalog		Course Course Title
NOTE. Some courses have pre-requisites, theth the tatalog	g curejuny:	
PROADENING COURSES see approved list**		BIOL 106 Energy Flow in Biological Systems
► BROADENING COURSES - see approved list** Social & Behavioral Science	Caralita Cara Ma	HPHY 242/242L Human Anatomy-Physiology II+Lab
Social & Benavioral Science	Credits Sem/Yr	
	3	
Literature	-	
	3	Physics Majors are also encouraged to take:
History		Course Course Title
	3	MATH 259 Calculus/Analytical Geometry III
Fine Arts & Design		MATH 260 Ordinary Differential Equations
	3	MATH 339 Linear Algebra
		and additional CPSC (Computer Science) courses.
► REQUIRED COURSE DESIGNATIONS - see approve	d list**	
*Writing Enriched	Credits Sem/Yr	
Witting Enriched	9 total	
Social Justice	J total	1
Social Justice	2 total	
*Clabal Chudiaa	3 total	
*Global Studies	CASASI	
halo to a constant of the cons	6 total	
**for list of approved RELI, Broadening & Designated co		
https://my.gonzaga.edu/academics/undergraduate-programs/ge	nerai-aegree-	