

College of Arts and Sciences 2026-2027 Degree Worksheet

B.A. CHEMISTRY

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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

UNIVERSITY CORE REQUIREMENTS:

► FUNDAMENTAL CORE COURSES

Year 1: Understanding & Creating

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

Year 2: Being & Becoming

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

Year 3: Caring & Doing

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

Year 4: Imagining the Possible

Core Integration Seminar	Credits	Sem/Yr
Dept. 432	3	

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

► BROADENING COURSES - see approved list**

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

► REQUIRED COURSE DESIGNATIONS - see approved list**

Writing Enriched	Credits	Sem/Yr
	9 total	
Social Justice		
	3 total	
Global Studies		
	6 total	

**for list of approved RELI, Broadening & Designated courses, see :

B.A. CHEMISTRY:

56-57 CREDITS

LOWER DIVISION

35 Credits

25 Credits

Course	Course Title	Credits	Grade
CHEM 101	General Chemistry	3	
CHEM 101L	General Chemistry Lab	1	
CHEM 102	General Chemistry II	3	
CHEM 102L	General Chemistry II Lab	1	
CHEM 230	Organic Chemistry I	3	
CHEM 230L	Organic Chemistry I Lab	1	
CHEM 231	Organic Chemistry II	3	
CHEM 231L	Organic Chemistry II Lab	1	
CHEM 285	Intro to the Chemical Sciences	1	
MATH 157	Calculus-Analytic Geometry I	4	
MATH 258	Calculus-Analytic Geometry II	4	

One of the following sets of courses and labs:

10 Credits

Course	Course Title	Credits	Grade
PHYS 111/111L	General Physics I + Lab	5	
PHYS 112/112L	General Physics II + Lab	5	
OR			
PHYS 121/121L	Physics I + Lab	5	
PHYS 122/122L	Physics II + Lab	5	

UPPER DIVISION

21-22 Credits

17 Credits

Course	Course Title	Credits	Grade
CHEM 305	Inorganic Chemistry	3	
CHEM 307	Biochemistry I	3	
CHEM 307L	Biochemistry I Lab	1	
CHEM 310	Analytical Chemistry	3	
CHEM 310L	Analytical Chemistry Lab	1	
CHEM 356	Thermodynamics & Kinetics	3	
CHEM 356L	Thermodynamics & Kinetics Lab	1	
CHEM 485	Seminar	1	
CHEM 488	Senior Literature Review	1	

One course from CHEM 405-480

2 Credits

Course	Course Title	Credits	Grade
CHEM		2	

One Elective from the following:

2-3 Credits

Course	Course Title	Credits	Grade
CHEM 308	Biochemistry II	3	
CHEM	2 credits from CHEM 405-480	2	
PHYS	300 & above approved Special Topics	3	

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B.A. CHEMISTRY - **SAMPLE** Yearly Progression

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56-57 credits required for the Major

Freshman

FALL

Course	Course Title	Credit	Grade
CHEM 101	General Chemistry I	3	
CHEM 101L	General Chemistry I Lab	1	
MATH 157	Calculus-Analytic Geometry I	4	
	CORE	3	
	CORE	3	
	CORE	3	
		17	

SPRING

Course	Course Title	Credits	Grade
CHEM 102	General Chemistry II	3	
CHEM 102L	General Chemistry II Lab	1	
MATH 258	Calculus-Analytic Geometry II	4	
	CORE	3	
	CORE	3	
	CORE	3	
		17	

Sophomore

FALL

Course	Course Title	Credit	Grade
CHEM 230	Organic Chemistry I	3	
CHEM 230L	Organic Chemistry I Lab	1	
CHEM 285	Introduction to the Chemical Sciences	1	
PHYS 111	General Physics I ⁽¹⁾	4	
PHYS 111L	General Physics I Lab ⁽¹⁾	1	
	CORE	3	
	CORE	3	
		16	

SPRING

Course	Course Title	Credits	Grade
CHEM 231	Organic Chemistry II	3	
CHEM 231L	Organic Chemistry II Lab	1	
PHYS 112	General Physics II ⁽¹⁾	4	
PHYS 112L	General Physics II Lab ⁽¹⁾	1	
	CORE	3	
	CORE	3	
	CORE	3	
		18	

Junior

FALL

Course	Course Title	Credit	Grade
CHEM 310	Analytical Chemistry	3	
CHEM 310L	Analytical Chemistry Lab	1	
CHEM 307	Biochemistry I	3	
CHEM 307L	Biochemistry I Lab	1	
	CORE	3	
	CORE	3	
		14	

SPRING

Course	Course Title	Credits	Grade
CHEM 4xx	Special Topic (405-480) ⁽²⁾	2	
CHEM 305	Inorganic Chemistry	3	
	CORE	3	
	CORE	3	
	CORE	3	
		14	

Senior

FALL

Course	Course Title	Credit	Grade
CHEM 356	Thermodynamics & Kinetics	3	
CHEM 356L	Thermodynamics & Kinetics Lab	1	
CHEM 485	Seminar	1	
CHEM 488	Senior Literature Review ⁽³⁾	1	
	CORE	3	
	CORE	3	
	CORE/Elective	3	
		15	

SPRING

Course	Course Title	Credits	Grade
CHEM 4xx	Special Topic (405-480) ⁽²⁾	2	
	CORE	3	
	CORE/Elective	3	
	CORE/Elective	3	
	CORE/Elective	3	
		14	

NOTES:

- Students can take Physics I and II with lab (PHYS 121/121L and PHYS 122/122L) instead of General Physics I and II.
- Students must take one Special Topics course (CHEM 405-480) and a second upper division elective (CHEM 405-480, CHEM 308, or

an approved PHYS 3XX/4XX). These may be taken in any order during 3rd & 4th years if pre-requisites are met.

3. Students must find a senior literature review or senior thesis faculty advisor by the end of spring semester junior year.