

College of Arts and Sciences 2024-2025 Degree Worksheet

B.S. CHEMISTRY (ACS Approved)

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

	Credits	Sem/Yr
<i>Writing</i>		
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

	Credits	Sem/Yr
<i>Christianity & Catholic Traditions</i>		
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

	Credits	Sem/Yr
<i>World/Comparative Religion</i>		
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

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

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

► BROADENING COURSES - see approved list**

	Credits	Sem/Yr
Social & Behavioral Science	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**

	Credits	Sem/Yr
*Writing Enriched	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.S. CHEMISTRY: (ACS Approved)

68-70 CREDITS

LOWER DIVISION

38 Credits

Course	Course Title	Credits	Grade
CHEM 101	General Chemistry I	3	<input type="text"/>
CHEM 101L	General Chemistry I Lab	1	<input type="text"/>
CHEM 102	General Chemistry II	3	<input type="text"/>
CHEM 102L	General Chemistry II Lab	1	<input type="text"/>
CHEM 230	Organic Chemistry I	3	<input type="text"/>
CHEM 230L	Organic Chemistry I Lab	1	<input type="text"/>
CHEM 231	Organic Chemistry II	3	<input type="text"/>
CHEM 231L	Organic Chemistry II Lab	1	<input type="text"/>
CHEM 285	Intro to the Chemical Sciences	1	<input type="text"/>
MATH 157	Calculus-Analytic Geometry I	4	<input type="text"/>
MATH 258	Calculus-Analytic Geometry II	4	<input type="text"/>
PHYS 121	Scientific Physics I	4	<input type="text"/>
PHYS 1211L	Scientific Physics I Lab	1	<input type="text"/>
PHYS 122	Scientific Physics II	4	<input type="text"/>
PHYS 122L	Scientific Physics II Lab	1	<input type="text"/>
PHYS 201	Mathematical Methods	3	<input type="text"/>

UPPER DIVISION

30-32 Credits

Course	Course Title	Credits	Grade
CHEM 305	Inorganic Chemistry	3	<input type="text"/>
CHEM 307	Biochemistry I	3	<input type="text"/>
CHEM 307L	Biochemistry I Lab	1	<input type="text"/>
CHEM 310	Analytical Chemistry	3	<input type="text"/>
CHEM 310L	Analytical Chemistry Lab	2	<input type="text"/>
CHEM 356	Thermodynamics & Kinetics	3	<input type="text"/>
CHEM 356L	Thermodynamics & Kinetics Lab	1	<input type="text"/>
CHEM 357	Quantum Chemistry	3	<input type="text"/>
CHEM 357L	Quantum Chemistry Lab	1	<input type="text"/>
CHEM 385L	Advanced Chemistry Lab	2	<input type="text"/>
CHEM 399	Advanced Topic	2	<input type="text"/>
CHEM 485	Seminar	1	<input type="text"/>

One of the following options:

1-2 Credits

CHEM 488 Senior Literature Review	1	<input type="text"/>
-----------------------------------	---	----------------------

OR

CHEM 498A Thesis I	1	<input type="text"/>
CHEM 498B Thesis II	1	<input type="text"/>

CHEM 498A & 498B are required for ACS approved degree

One Course from CHEM 405-480:

2 Credits

Course	Course Title	Credits	Grade
CHEM		2	<input type="text"/>

One Elective from the following:

2-3 Credits

Course	Course Title	Credits	Grade
CHEM 308	Biochemistry II	3	<input type="text"/>
CHEM	Special Topic from CHEM 405-480	2	<input type="text"/>
PHYS 300 or above	approved Physics Topics	3	<input type="text"/>