

## 2020-2021 NEW ACS Track GENERIC– BS Chemistry (pre-calc start)

YEAR 1			
TERM 1		TERM 2	
Course	Credits	Course	Credits
ENGL 1101: English Composition I	3	ENGL 1102: English Composition II	3
MATH 1113: Precalculus	4	MATH 1634: Calculus I	4
CHEM 1211/1211L: Principles of Chemistry I + Lab	4	CHEM 1212/1212L: Principles of Chemistry 2+ Lab	4
Area B1, Area C or Area E: Written and Oral Communications; Humanities; Fine Arts; Social Sciences	3	Area B1, Area C or Area E: Written and Oral Communications; Humanities; Fine Arts; Social Sciences	3
XIDS 2002 First Year Seminar Course (CORE B2: Other Institutional options )	2		
SEMESTER TOTAL	16	SEMESTER TOTAL	14
Milestones		Milestones	
<ul style="list-style-type: none"> <li>• Complete ENGL 1101 C or better</li> <li>• Complete MATH 1113 and CHEM 1211 C or better</li> </ul>		<ul style="list-style-type: none"> <li>• Complete ENGL 1102 C or better</li> <li>• Complete Chemistry II B or better</li> </ul>	
YEAR 2			
TERM 1		TERM 2	
Course	Credits	Course	Credits
MATH 2644: Calculus II	4	CHEM 3422/3422L: Organic Chemistry I + Lab	4
CHEM 2411/2411L: Organic Chemistry 1 + Lab	4	PHYS 2212/2212L: Principles of Physics II/Lab	4
CHEM 2130: Sophomore chemistry Seminar	1	ELECTIVE	3
PHYS 2211/2211L: Introductory Principles of Physics I/Lab	4	Area B1, Area C or Area E: Written and Oral Communications; Humanities; Fine Arts; Social Sciences	3
Area B1, Area C or Area E: Written and Oral Communications; Humanities; Fine Arts; Social Sciences	3		
SEMESTER TOTAL	16	SEMESTER TOTAL	14
Milestones		Milestones	
<ul style="list-style-type: none"> <li>•</li> </ul>		<ul style="list-style-type: none"> <li>• Complete Organic II and Physics II by the end of Year 2.</li> </ul>	

**\*\*This program map is intended ONLY as a guide for students to plan their course of study. It does NOT replace any information in the Undergraduate Catalog, which is the official guide for completing degree requirements\*\***

Core Curriculum (A-E) can be viewed here: <https://www.westga.edu/student-services/registrar/core-curriculum.php>

### Student Online Resources:

- [www.westga.edu/advising](http://www.westga.edu/advising) (Learn about: The name of your assigned advisor, program maps for all programs at UWG, tutorials on how to register and your wolf watch evaluation).
- [www.westga.edu/scoop](http://www.westga.edu/scoop) (Learn about: Fee payment deadlines, withdrawal deadlines, final exam schedules).
- [www.westga.edu/esc](http://www.westga.edu/esc) (Learn about: Requesting a transcript, financial aid information, requesting an enrollment verification, completing a FERPA form).
- [www.westga.edu/careerservices](http://www.westga.edu/careerservices) (Learn about: On/Off campus job opportunities, major and career exploration, resumes & cover letters, interviewing tips).
- [www.westga.edu/cas](http://www.westga.edu/cas) (Learn about: tutoring, academic coaching, supplemental instruction, success workshops).

YEAR 3			
TERM 1		TERM 2	
Course	Credits	Course	Credits
CHEM 3310K*: Analytical Chemistry	4	CHEM 4330K: Instrumental Analysis	4
CHEM 35XX: Physical Chemistry Course (see note below)	3	CHEM 35XX: Physical Chemistry Course (see note below)	3
CHEM 4083: Faculty Directed Research	1	CHEM 4083: Faculty Directed Research	1
Area B1, Area C or Area E: Written and Oral Communications; Humanities; Fine Arts; Social Sciences	3	CHEM 4610: Inorganic Chemistry	3
ELECTIVE	3	ELECTIVE	3
SEMESTER TOTAL	14	SEMESTER TOTAL	14
<b>Milestones</b>		<b>Milestones</b>	
<ul style="list-style-type: none"> <li>* CHEM 3310K may be taken in Year 2 summer</li> </ul>		<ul style="list-style-type: none"> <li>Complete two semesters CHEM 4083</li> </ul>	
YEAR 4			
TERM 1		TERM 2	
Course	Credits	Course	Credits
CHEM 4711: Biochemistry	3	CHEM 4083: Faculty Directed Research	1
CHEM 3550L: Physical Chemistry Lab	2	CHEM 4913L: Advanced Synthesis Laboratory	2
CHEM 4083: Faculty Directed Research	1	CHEM 4084: Senior Seminar	1
CHEM ELECTIVE	3	CHEM ELECTIVE	3
Area B1, Area C or Area E: Written and Oral Communications; Humanities; Fine Arts; Social Sciences	3	Area B1, Area C or Area E: Written and Oral Communications; Humanities; Fine Arts; Social Sciences	3
ELECTIVE	4	ELECTIVE	3
		ELECTIVE	3
SEMESTER TOTAL	16	SEMESTER TOTAL	16
<b>Milestones</b>		<b>Milestones</b>	
<ul style="list-style-type: none"> <li></li> </ul>		<ul style="list-style-type: none"> <li>Complete 4 credit hours of research (CHEM 4083)</li> <li>Complete thesis and oral presentation (CHEM 4084)</li> </ul>	

#### For Chemistry Electives:

Students are required to choose from: Advanced Organic, Spectroscopy, Materials Chemistry, Green Chemistry, and Physical Biochemistry.

#### Physical Chemistry Courses:

Anywhere you see 35XX above, students can choose between 3521: Quantum Chemistry, 3522: Chemical Thermodynamics, and 3523: Structure, Bonding, & Reactivity with advisor approval/advice.

#### All Other Electives:

Math and Science Electives are preferred. Students should work with their advisor to choose electives that will support and complement their life goals.