

Chemistry - Liberal Arts, B.S., Major

The following is a hypothetical schedule, based on the 2018-2019 catalog. It assumes no transferred credits, no requirements waived by placement tests, and no courses taken in the summer. UW-Eau Claire cannot guarantee all courses will be offered as shown, but will provide a range of courses that will enable prepared students to fulfill their requirements in a timely period. This is just a guide. Please consult your advisor, the catalog, and your degree audit for specific requirements.

FIRST YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
CHEM 115 ^a	Chemical Principles (K1)	6	CHEM 213	Quantitative Analysis (S3)	4
WRIT 114 or 116	Blugold Seminar (S1)	5	CHEM 218	Introduction to Inorganic Chemistry	3
MATH 114 ^b	Calculus I (S2)	4	MATH 215 ^b	Calculus II (S2)	4
			LE Core Elective	Social Science (K2)	3
TOTAL		15	TOTAL		14

SECOND YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
CHEM 325	Organic Chemistry I with Lab	4	CHEM 326	Organic Chemistry II with Lab	4
PHYS 231	University Physics I (K1)	5	PHYS 232	University Physics II (K1)	5
LE Core Elective	Social Science (K2)	3	LE Core Elective	Fine Arts (K4)	3
LE Core Elective	Humanities (K3)	3	LE Core Elective	Civic, Social, Environmental Responsibility (R3)	3
TOTAL		15	TOTAL		15

THIRD YEAR

FIRST SEMESTER – Apply for Admission to Major			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
CHEM 433	Physical Chemistry I (Fall Only)	4	CHEM 434	Physical Chemistry II (Spring Only)	4
CHEM Elective ^d		3	LE Core Elective	Equity, Diversity, Inclusivity (R1+DD)	3
LE Core Elective	Communication (S1)	3	LE Core Elective	Humanities (K3)	3
ELECTIVES ^e		6	LE Core Elective	Global Learning (R2)	3
			ELECTIVE ^e		3
TOTAL		16	TOTAL		16

FOURTH YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
CHEM 420 or 453 ^c	Advanced Synthesis Lab or Biochemistry Lab	2	CHEM 420, 438 or 453 ^c	Advanced Synthesis Lab, Physical Analysis Lab (Spring Only), or Biochemistry Lab	2
CHEM 433	Physical Chemistry I	4	CHEM Elective ^d		3
LE Core Elective	Integrative Learning (I1)	3	LE Core Elective	Integrative Learning (I1)	3
LE Core Elective	Equity, Diversity, Inclusivity (R1)	3	ELECTIVES ^e		6
ELECTIVE ^e		3			
TOTAL		15	TOTAL		14

RECOMMENDATIONS FOR OPTIONAL HIGH IMPACT PRACTICES (HIPs)

The University of Wisconsin-Eau Claire encourages all students to participate in High Impact Practices. The following information identifies any specific recommendations that faculty in this major have concerning which HIPs might be most beneficial to students, and any recommendations about when those HIPs best fit into the degree plan. Students should also consult their faculty advisor for information on HIPs.

Students majoring Chemistry are encouraged to participate in collaborative research or an internship.

NOTES**Liberal Education Core (LE Core)**

The LE Core comprises 17 learning experiences across 11 learning outcomes. Students must complete a minimum of 36 credits in courses approved for the LE Core.

- K1 – Natural Sciences; two experiences (one lab science experience is required in K1 or K2).
- K2 – Social Sciences; two experiences (one lab science experience is required in K1 or K2).
- K3 – Humanities; two experiences.
- K4 – Fine Arts; one experience.
- S1 – Written and Oral Communication; two experiences (one experience must satisfy the University writing requirement).
- S2 – Mathematics; one experience (must satisfy the University math competency requirement).
- S3 – Creativity; one experience (can be fulfilled in a student's major).
- R1 – Equity, Diversity, and Inclusivity; two experiences (one experience must meet the UW System Design for Diversity (DD) requirement).
- R2 – Global Perspectives; one experience.
- R3 – Civic and Environmental Issues; one experience.
- I1 – Integration; two experiences (one experience can be fulfilled in a student's major).

Additional LE Core Information

- Most LE Core learning experiences are course based, and many courses meet more than one learning outcome (e.g., K3 and R2 or K1 and R3).
- Some learning experiences can also be met outside of a traditional course (e.g., undergraduate research (S3), study abroad (I1)).
- S1 – An English placement score that fulfills the University writing requirement fulfills one S1 experience.
- S1 – A foreign Language placement score that qualifies the student to enter the 102 level satisfies one S1 experience.
- S1, R2 – A foreign language placement score that qualifies the student to enter the 202 level satisfies one experience in S1 and the R2 experience.
- S2 – A math placement score that qualifies the student to enter Math 111, 112, 113 or 114 fulfills the S2 experience.
- S3 – Completion of two credits from any approved music ensemble fulfills the S3 experience.
- I1 – Any semester long study abroad program can fulfill one I1 experience.

Course Suggestions (if applicable)

- a CHEM 105, CHEM 106 (K1) and CHEM 109 may be taken in place of CHEM 115, but only 6 of the 9 credits will count towards the major.
- b Students planning for graduate studies in chemistry (especially those interested in physical chemistry) are encouraged to take additional courses in mathematics (MATH 216, MATH 311, and/or MATH 324) and physics.
- c One of the three upper-level labs need to be taken, including CHEM 420, CHEM 438 and CHEM 453. The CHEM 453 (Biochemistry Lab) option has a prerequisite of CHEM 352 (Fundamentals of Biochemistry), which can be taken as the Chemistry elective.
- d Select at least 3 credits from the following: CHEM 304, 318, 352, 361, 397, 399, 401, 411, 426, 444, 460, 491, 495, 497, and 499
- e Electives need to be carefully selected to ensure that a student's degree comprises at least 39 credits of upper division courses (300-400 level) and that the student complete a minor in addition to the Chemistry major.

Application to Major (if applicable)