

BIOCHEMISTRY/ MOLECULAR BIOLOGY, COMPREHENSIVE MAJOR

Liberal Arts (Code 090-001)

University Requirements

GRADUATION REQUIREMENTS FOR BACCALAUREATE DEGREE

Credit Requirements	
Minimum total for graduation ¹	120
Upper division credits (courses numbered 300 and higher)	39
Liberal Education Core (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header1)	36
Academic Concentrations (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header16)	
Grade Point Requirements (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header14) ²	
Total	2.00 average
Resident	2.00 average
Major	2.00 average
Minor	2.00 average
Certificate	2.00 average
University Residency Requirements (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header15)	
Minimum total	30
Senior year	23
Major, Standard, upper division in residence	12
Major, Comprehensive, upper division in residence	21
Certificate	25 percent of credits

Procedures Required for Graduation

Obtain admission to the degree program and/or the College offering it.

Apply for graduation on CampS.

¹ Certain programs exceed this minimum.

² See special requirements in each College.

Applicability of Credits Toward Graduation

Junior College or Two-Year College Credits. A maximum of 72 semester credits earned in a junior college or two-year college will be accepted as degree credits at UW-Eau Claire.

Extension Credits. Credits earned in credit outreach courses offered by UW-Eau Claire are treated as resident credits. Credits earned in extension courses offered by other units of the University of Wisconsin System are treated as transfer credits. All other (non-UW) extension and correspondence credits are normally limited to one-fourth of the total required for graduation from any curriculum.

WTCS Credits. A maximum of 72 semester credits earned in college parallel programs at Madison Area Technical College, Milwaukee Area Technical College, Nicolet Area Technical College, or Chippewa Valley Technical

College may be accepted as degree credits at UW-Eau Claire. A set number of general education courses will be accepted from other technical schools. Occupational and technical courses may also be considered for transfer if the quality and content of the course work from the technical college is judged to be comparable to course work at UW-Eau Claire. Refer to the Transfer Credit Wizard (https://my.uwec.edu/psp/PUBLIC/EMPLOYEE/HRMS/c/EAU_SS_CUSTOM.EAU_TRNCRDZW.GBL) or contact the UW-Eau Claire Admissions Office for information about the current transfer policy.

USAFI Credit. UW-Eau Claire will accept up to 32 semester credits for work done through the United States Armed Forces Institute, under the provision for non-UW correspondence credit (see Extension Credits above).

Activity Credit (band, chorus, drama, KINS 100-184 courses) Students may count toward graduation no more than one credit of KINS 110-184 courses. Students may count toward graduation no more than four credits earned in any single activity course and no more than 12 credits resulting from any combination of activity courses (excluding KINS 110-184 courses).

Other Restricted Credits. For other University restrictions, see the following: Cooperative Education; Credit by Examination; Satisfactory/Unsatisfactory Registration; Transfer of Credits. College or departmental restrictions may also be placed on Independent Study (399-499 courses), Directed Study (395-495), and other types of credits.

APPLICABILITY OF CREDITS TOWARD GRADUATION	Credit Restrictions
Satisfactory/Unsatisfactory	
Total degree credit	maximum 12
Major, Standard	maximum 1 course
Major, Comprehensive	maximum 2 courses
Minor	maximum 1 course
Credit by Examination	
Total degree credit	maximum ¼ of total
Major or minor	maximum ½ of total
Two-Year College Credits	
Total degree credit	maximum 72 credits
Activity credit (band, chorus, drama, KINS 100-184)	
Total KINS 100-184	maximum 1 credit
Total Band, chorus, drama	maximum 12 credits
Single course band, chorus, drama	maximum 4 credits
Extension credits	
UW-System	no maximum
Other extension/correspondence	maximum ¼ of total
USAFI	
USAFI	maximum 32 credits

Liberal Education Core

The University of Wisconsin-Eau Claire measures learning outcomes to ensure that its graduates have achieved a liberal education and prepared themselves to contribute to a complex society. Upon graduation, each undergraduate will have met the five learning goals of our liberal education core and the 12 learning outcomes they comprise.

LIBERAL EDUCATION CORE REQUIREMENTS

a minimum of
36 credits

Knowledge Goal

Knowledge Outcome 1 (K1): Natural Sciences (<http://catalog.uwec.edu/undergraduate/attribute-k1/>) Two (2) learning experiences

One experience in laboratory science must be selected from either K1 or K2.

Knowledge Outcome 2 (K2): Social Sciences (<http://catalog.uwec.edu/undergraduate/attribute-k2/>) Two (2) learning experiences

One experience in laboratory science must be selected from either K1 or K2.

Knowledge Outcome 3 (K3): Humanities (<http://catalog.uwec.edu/undergraduate/attribute-k3/>) Two (2) learning experiences

Knowledge Outcome 4 (K4): Fine Arts (<http://catalog.uwec.edu/undergraduate/attribute-k4/>) One (1) learning experience

Skills Goal

Skills Outcome 1 (S1): Written and Oral Communication (<http://catalog.uwec.edu/undergraduate/attribute-S1/>) Two (2) learning experiences

One S1 must meet the University Writing Requirement (<http://catalog.uwec.edu/undergraduate/graduation-requirements/#header10>)

Skills Outcome 2 (S2): Mathematics (<http://catalog.uwec.edu/undergraduate/attribute-S2/>) One (1) learning experience

One S2 to meet the University Mathematics Requirement (<http://catalog.uwec.edu/undergraduate/graduation-requirements/#header11>)

Skills Outcome 3 (S3): Creativity (<http://catalog.uwec.edu/undergraduate/attribute-S3/>) One (1) learning experience

Responsibility Goal

Responsibility Outcome 1 (R1): Equity, Diversity, and Inclusivity (<http://catalog.uwec.edu/undergraduate/attribute-R1/>) Two (2) learning experiences

One R1 must satisfy Design for Diversity (<http://catalog.uwec.edu/undergraduate/attribute-DDIV/#header13>)

Responsibility Outcome 2 (R2): Global Perspectives (<http://catalog.uwec.edu/undergraduate/attribute-R2/>) One (1) learning experience

Responsibility Outcome 3 (R3): Civic and Environmental Issues (<http://catalog.uwec.edu/undergraduate/attribute-R3/>) One (1) learning experience

Integration Goal

Integration Outcome 1 (I1): Integration (<http://catalog.uwec.edu/undergraduate/attribute-I1/>) Two (2) learning experiences

Service-Learning Goal

Service-Learning (<http://catalog.uwec.edu/undergraduate/attribute-SL/#header13>) 30 hours

College Degree Requirements

Bachelor of Arts or Bachelor of Science Degree (B.A./B.S.)

University Graduation Requirements. All candidates for degrees must fulfill the requirements for credits, curriculum, GPA, and University residency as specified in the section of this catalog titled University Graduation Requirements (<http://catalog.uwec.edu/undergraduate/graduation-requirements/>).

College Graduation Requirements: Grade Point Averages. All candidates for degrees in the College of Arts and Sciences must earn minimum resident and total GPAs of 2.00 in the major, the minor, and the certificate. The resident and total GPAs for the major are computed using all attempted credits applicable to the major including those offered by departments other than the major department. The resident and total GPAs for the minor and the certificate are computed similarly.

Major-Minor and Major-Certificate Requirements. A standard major (a minimum of 36 credits) must be supplemented by a minor (a minimum of 24 credits) or by a certificate (12 to 18 credits) to meet graduation requirements for completing a first and second degree program. No minor or certificate is required with a Comprehensive Major (60 or more credits) or with two majors of 36 or more credits each.

Certain degree programs, which include Comprehensive Majors, may require more than the minimum of 120 credits for graduation.

Acceptable academic program combinations are determined at the college level. A major and a minor or a major and certificate or two majors (if available) may not be elected in the same department or program, except in the approved combinations listed here (<http://catalog.uwec.edu/undergraduate/arts-sciences/#academicprogramstext>).

College Credits. Earn at least 90 credits in courses offered by the College of Arts and Sciences.

Bachelor of Arts Degree in the College of Arts and Sciences (B.A.)

Fulfillment of all University Graduation Requirements (which includes the Liberal Education Core); all College-level degree requirements (major and minor/certificate emphases, GPAs, earning at least 90 credits in Arts and Sciences course work); foreign language competency at the 102 level. Foreign language competency may be met in one of two ways: (1) Achieve a score on the foreign language placement test that qualifies the student to enter the 201-level course in a foreign language. (2) Earn a grade of at least C (not C-) or a mark of S in a 102-level foreign language course (or AIS 112 or AIS 122 / LANG 122 or CSD 103).

Bachelor of Science Degree in the College of Arts and Sciences (B.S.)

Fulfillment of all University Graduation Requirements (which includes the Liberal Education Core); all College-level degree requirements (major and minor/certificate emphases, GPAs, earning at least 90 credits in Arts and Sciences course work); mathematics competency at the MATH 111, MATH 112

or MATH 113 level. Mathematics competency can be met in one of three ways:

(1) Achieve a score on the mathematics placement test that qualifies the student to enter MATH 114. (2) Earn a grade of at least C (not C-) or a mark of 5 in MATH 111, MATH 112, or MATH 113. (3) Achieve a satisfactory score on the MATH 112 competency test. This test may be attempted no more than two times.

Major Requirements

Liberal Arts (Code 090-001)

Advisors: J. Anderson (Biology), D. Gingerich (Biology), S. Hati (Chemistry and Biochemistry), S. Bailey-Hartsel (Chemistry and Biochemistry), J. Lyman Gingerich (Biology), S. Showsh (Biology).

The Biochemistry/Molecular Biology major prepares students for entry-level employment opportunities in research and development in industrial and government laboratories as well as graduate programs in molecular biology, genetics, pharmacology, biochemistry and related fields (see NOTE 2 below). This program also provides effective preparation for admission to professional schools in medicine, osteopathy, pharmacy, and dentistry. Biochemistry/Molecular Biology majors are eligible to apply for Departmental Honors in Biology or Chemistry and Biochemistry (see each department page for criteria).

Biochemistry/Molecular Biology

Code	Title	Credits
A minimum of 69 semester credits, including:		
I. Biology Course Requirements		
(minimum of 26 credits)		
BIOL 221	Foundations of Biology I	4
BIOL 222	Foundations of Biology II	3
BIOL 223	Foundations of Biological Inquiry	2
BIOL 305	Molecular and Cell Biology	4
BIOL 323	Genetics	3
BIOL 324	Genetics Inquiry	2
BIOL 405	Advanced Cell and Molecular Lab	4
BIOL 409	Molecular Genetics	4
II. Chemistry Course Requirements		
(minimum of 30 credits)		
CHEM 115	Chemical Principles	6
CHEM 213	Quantitative Analysis	4
CHEM 325	Organic Chemistry I with Laboratory	4
CHEM 326	Organic Chemistry II with Laboratory	4
CHEM 406	Biophysical Chemistry	4
CHEM 452	Biochemistry I	3
CHEM 454	Biochemistry II	3
CHEM 453	Biochemistry Laboratory	2
III. Other Course Requirements		
(minimum of 13 credits)		
MATH 114	Calculus I	4
PHYS 211	General Physics	5
PHYS 212	General Physics	4

Note 1: CHEM 105, CHEM 106, and CHEM 109 may be substituted for CHEM 115, but only six of the credits count toward the major.

Note 2: CHEM 433 (CHEM 434 optional) may be substituted for CHEM 406 (MATH 215 and PHYS 231, PHYS 232 required if CHEM 433 (CHEM 434) is taken.) This substitution is strongly recommended for students considering doctoral study in biophysics or physical biochemistry.

Note 3: Students are also encouraged to seek out a collaborative research experience or do independent study (BIOL 399, BIOL 499, CHEM 399, CHEM 497, or CHEM 499) in addition to their formal course work.

Program Learning Outcomes

Students completing this program will be expected to meet the following learning outcomes:

- Demonstrate an understanding of foundational biological principles in the areas of information flow, exchange, and storage, pathways and transformations of energy and matter, structure and function, and systems and evolution.
- Apply the process of science.
- Communicate and collaborate and to recognize the interdisciplinary nature of science.
- Use quantitative reasoning, models and/or simulation.
- Understand the relationship between science and society.

Sample Degree Plans

Biochemistry/Molecular Biology, Comprehensive Major, B.S. - (Starting in CHEM 115)

The following is a sample degree plan, based on the 2023-2024 catalog. It is based on the 120-credit graduation requirement and assumes no transferred credits, no requirements waived by placement tests, no courses taken in the summer or winter, no repeated courses, and no remedial courses that may be required. This sample degree plan is intended for first-year students entering UW-Eau Claire in the fall semester. Your own degree plan may differ depending on the course of study selected (second major, minor, etc.). UW-Eau Claire cannot guarantee all courses will be offered as shown, but will provide a range of courses that may enable prepared students to fulfill their requirements in a timely period. This sample degree plan is just a guide. Please consult your advisor, your degree audit, and the catalog to create your own degree plan. Note: In order to earn the required minimum of 120 credits for the degree in four years, you should plan to take 15 credits each semester or 30 credits each year.

To earn a degree, students must fulfill all University Graduation Requirements, including the Liberal Education (LE) Core. LE Core course work in the following sample degree plan uses abbreviations such as LE-K1, LE-S2, LE-R3, and LE-I1 to represent the learning outcomes students will meet via completion of their liberal education course work. Please click (<https://catalog.uwec.edu/undergraduate/graduation-requirements/>) here for a description of the Liberal Education Core outcomes and requirements. Note that the LE Core may be completed through both course and non-course experiences.

Students in this major have the option to pursue either a Bachelor of Arts (B.A.) or a Bachelor of Science (B.S.) degree. The degrees are distinguished by foreign language competency for the B.A. and a higher level of mathematics competency for the B.S.

FIRST YEAR

FIRST SEMESTER

CHEM 115	Chemical Principles (LE-K1L) ^a	6
BIOL 221	Foundations of Biology I (LE-K1L) ^b	4
MATH 114	Calculus I (LE-S2) ^c	4

SECOND SEMESTER		
CHEM 213	Quantitative Analysis (LE-S3)	4
BIOL 222	Foundations of Biology II ^d	3
BIOL 223	Foundations of Biological Inquiry (LE-S3) ^d	2
WRIT 114	Intensive Blugold Seminar in Critical Reading and Writing (LE-S1)	5
OR		
WRIT 116	Blugold Seminar in Critical Reading and Writing (LE-S1)	
TOTAL FIRST YEAR		28
SECOND YEAR		
FIRST SEMESTER		
CHEM 325	Organic Chemistry I with Laboratory	4
PHYS 211	General Physics (LE-K1L) ^c	5
BIOL 323	Genetics	3
LE Option: Knowledge 2 (LE-K2) Social Sciences		3
SECOND SEMESTER		
CHEM 326	Organic Chemistry II with Laboratory	4
PHYS 212	General Physics ^c	4
BIOL 324	Genetics Inquiry	2
LE Option: Knowledge 3 (LE-K3) Humanities		3
TOTAL SECOND YEAR		28
THIRD YEAR		
FIRST SEMESTER		
CHEM 452	Biochemistry I (Fall Only)	3
BIOL 305	Molecular and Cell Biology	4
LE Option: Skills 1 (LE-S1) Written and Oral Communication		3
LE Option: Responsibility 1 (LE-R1, DDIV) Equity, Diversity, and Inclusivity with Design for Diversity		3
LE Option: Knowledge 4 (LE-K4) Fine Arts		3
SECOND SEMESTER		
CHEM 454	Biochemistry II (Spring Only)	3
CHEM 453	Biochemistry Laboratory	2
LE Option: Knowledge 3 (LE-K3) Humanities		3
LE Option: Responsibility 3 (LE-R3) Civic and Environmental Issues		3
LE Option: Responsibility 1 (LE-R1) Equity, Diversity, and Inclusivity		3
TOTAL THIRD YEAR		30
FOURTH YEAR		
FIRST SEMESTER		
CHEM 406	Biophysical Chemistry (Fall Only) ^b	4
BIOL 409	Molecular Genetics (Fall Only)	4
LE Option: Responsibility 2 (LE-R2) Global Perspectives		3
LE Option: Knowledge 3 (LE-K3) Humanities		3
ELECTIVES ^e		3
SECOND SEMESTER		
BIOL 405	Advanced Cell and Molecular Lab (Spring Only)	4
LE Option: Integration (LE-I1)		3
LE Option: Knowledge 2 (LE-K2) Social Sciences		3

ELECTIVES ^e	5
TOTAL CREDITS FOURTH YEAR	32

Minimum total for the baccalaureate degree = 120 credits

- 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 Prerequisites: MATH 109 or placement into math course above MATH 109: CHEM 105 and CHEM 106, or CHEM 115, or concurrent enrollment.
- c Students interested in pursuing graduate studies in biochemistry or biophysical chemistry are encouraged to take Calculus II (MATH 215) along with substituting the calculus-based sequence, PHYS 231 and PHYS 232 for PHYS 211 and PHYS 212. These students may also want to consider substituting Physical Chemistry I (CHEM 433) for Biophysical Chemistry (CHEM 406).
- d A grade of C or above in BIOL 221.
- 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). While students are encouraged to take additional courses in chemistry, electives can be selected from any discipline as long as the student meets the course prerequisites.

Note: All students must complete the 30-hour Service-Learning Requirement via a non-credit or credit option (see University Graduation Requirements).

RECOMMENDATIONS FOR 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. There are many additional high impact opportunities available. Talk to your academic advisor for more information about incorporating HIPs like Study Abroad, Intercultural Immersion, Internship, and/or Student/Faculty Collaborative Research into your time at UW-Eau Claire.

Biochemistry/Molecular Biology, Comprehensive Major, B.S. - (Starting in CHEM 105, 106, 109)

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Education Core outcomes and requirements. Note that the LE Core may be completed through both course and non-course experiences.

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FIRST YEAR

FIRST SEMESTER

CHEM 105	General Chemistry I Lecture ^a	3
CHEM 106	General Chemistry I Laboratory (LE-K1L) ^a	2
MATH 109	Algebra for Calculus (LE-S2)	4
LE Option: Knowledge 2 (LE-K2) Social Sciences		3
LE Option: Knowledge 3 (LE-K3) Humanities		3

SECOND SEMESTER

CHEM 109	General Chemistry II with Lab ^a	4
BIOL 221	Foundations of Biology I (LE-K1L) ^b	4
WRIT 114	Intensive Blugold Seminar in Critical Reading and Writing (LE-S1)	5

OR

WRIT 116	Blugold Seminar in Critical Reading and Writing (LE-S1)	
MATH 113	Trigonometry	2

TOTAL FIRST YEAR 30

SECOND YEAR

FIRST SEMESTER

CHEM 213	Quantitative Analysis (LE-S3)	4
CHEM 325	Organic Chemistry I with Laboratory	4
BIOL 222	Foundations of Biology II ^d	3
BIOL 223	Foundations of Biological Inquiry (LE-S3) ^d	2
LE Option: Knowledge 4 (LE-K4) Fine Arts		3

SECOND SEMESTER

CHEM 326	Organic Chemistry II with Laboratory	4
BIOL 323	Genetics	3
BIOL 324	Genetics Inquiry	2
MATH 114	Calculus I ^c	4
LE Option: Responsibility 1 (LE-R1, DDIV) Equity, Diversity, and Inclusivity with Design for Diversity		3

TOTAL SECOND YEAR 32

THIRD YEAR

FIRST SEMESTER

CHEM 452	Biochemistry I (Fall Only)	3
PHYS 211	General Physics (LE-K1L) ^c	5
LE Option: Skills 1 (LE-S1) Written and Oral Communication		3
LE Option: Responsibility 2 (LE-R2) Global Perspectives		3

SECOND SEMESTER

CHEM 454	Biochemistry II (Spring Only)	3
BIOL 305	Molecular and Cell Biology	4
PHYS 212	General Physics ^c	4
LE Option: Responsibility 3 (LE-R3) Civic and Environmental Issues		3

LE Option: Responsibility 1 (LE-R1) Equity, Diversity, and Inclusivity 3

TOTAL THIRD YEAR 31

FOURTH YEAR

FIRST SEMESTER

CHEM 406	Biophysical Chemistry (Fall Only) ^c	4
BIOL 409	Molecular Genetics (Fall Only)	4
LE Option: Integration (LE-I1)		3
LE Option: Knowledge 2 (LE-K2) Social Sciences		3

SECOND SEMESTER

CHEM 453	Biochemistry Laboratory	2
BIOL 405	Advanced Cell and Molecular Lab (Spring Only)	4
LE Option: Integration (LE-I1)		3
LE Option: Knowledge 3 (LE-K3) Humanities		3
Elective		1

TOTAL FOURTH YEAR 27

Minimum total for the baccalaureate degree = 120 credits

- 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 Prerequisites: MATH 109 or placement into math course above MATH 109: CHEM 105 and CHEM 106, or CHEM 115, or concurrent enrollment.
- c Students interested in pursuing graduate studies in biochemistry or biophysical chemistry are encouraged to take Calculus II (MATH 215) along with substituting the calculus-based sequence, PHYS 231 and PHYS 232 for PHYS 211 and PHYS 212. These students may also want to consider substituting Physical Chemistry I (CHEM 433) for Biophysical Chemistry (CHEM 406).
- d A grade of C or above in BIOL 221.
- 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). While students are encouraged to take additional courses in chemistry, electives can be selected from any discipline as long as the student meets the course prerequisites.

Note: All students must complete the 30-hour Service-Learning Requirement via a non-credit or credit option (see University Graduation Requirements (<http://catalog.uwec.edu/undergraduate/graduation-requirements/>)).

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Liberal Education (LE) Core Guidance

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).
- SL—Service Learning; 30 hours

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.
-