

Physics, Liberal Arts Emphasis, B.S., Major

The following is a hypothetical schedule, based on the 2019-2020 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
MATH 114	Calculus I (S2)	4	CS 163	Introduction to Programming in C++	3
PHYS 186 ^a	Introductory Seminar	0.5	MATH 215	Calculus II	4
PHYS 231	University Physics I (K1)	5	PHYS 232	University Physics II (K1)	5
WRIT 114/116	Blugold Seminar (S1)	5	LE Core Elective	Humanities (K3) and Equity, Diversity, Inclusivity with Design for Div. (R1, DD)	3
TOTAL		14.5	TOTAL		15

SECOND YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
MATH 216	Calculus III	4	MATH 312	Differential Equations and Linear Algebra	4
PHYS 332	University Physics III (I1)	3	PHYS 340 ^b	Optics	4
PHYS 350 ^a	Electric and Electronic Circuits	4	Minor		3
LE Core Elective	Communication (S1)	3	LE Core Elective	Humanities (K3) and Global Learning (R2)	3
TOTAL		14	TOTAL		14

THIRD YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
PHYS 333 or 365 ^c	Quantum Physics or Theoretical Mechanics	3-4	Physics Elective ^d	See elective list	4
Minor		3	LE Core Elective	Fine Arts (K4)	3
Minor		3	LE Core Elective	Social Science (K2) and Civic, Social, and Environmental Responsibility (R3)	3
LE Core Elective	Social Science (K2) and Equity, Diversity, Inclusivity with Design for Diversity (R1)	3	Minor		3
LE Core Elective	Integrative Learning (I1)	3	Minor		3
TOTAL		15-16	TOTAL		16

FOURTH YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
PHYS 333 or 365 ^c	Quantum Physics or Theoretical Mechanics	3-4	Physics Elective ^e	See elective list	4
PHYS 486 ^a	Senior Seminar (S3)	0.5	Minor		3
Minor		3	Minor		3
Electives ^e		9	Electives ^e		6
TOTAL		15.5-16.5	TOTAL		16

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.

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).
- 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.

Course Suggestions

^aOffered only in fall semesters.

^bOffered only in spring semesters.

^cPhysics 333 is offered in fall of even numbered years and Physics 365 is offered in fall of odd numbered years.

^dSelect from the following: any physics course numbered 325 or higher, including PHYS/MSE 374 and MSE 315, 357, 372, and 451.

^eElectives need to be carefully selected to ensure that a student's degree comprises at least 39 credits of upper division courses (300-400 level).