

## PHYSICS

Endorsement Name	<b>Physics</b>
Department	Physics
License area [ State of Iowa]	5 – 12 Physics
Required Education Minor	Secondary Education Minor
	4/6/2023

**OPTION ONE: The student completes a Physics major at Luther College to include the following requirements.**

*Work closely with both your Physics major professor and an advisor from the Education Department.*

	PHYS 181: Classical Physics I	4
	PHYS 182: Classical Physics II	4
	PHYS 281: Modern Physics I	4
	PHYS 282: Modern Physics II	4
	PHYS 311: Electronics	2
	PHYS 312: Advanced Laboratory	2
	Three additional Physics courses above 300; <u>Two of these courses must be selected from the following:</u> PHYS 361: Classical Mechanics PHYS 364: Electricity and Magnetism PHYS 411: Quantum Mechanics	12
	MATH 150: Calculus in Context *	4
	MATH 152: Calculus II	4
	MATH 240: Linear Algebra	4
	MATH 351: Ordinary Differential Equations	4

**Recommendation: Take supporting courses in math, computer science, and/or other sciences.**

**OPTION TWO: This is for a student with a major in a different field, planning to teach Physics, in the State of Iowa, under the second teaching area provision. This student must complete the Secondary Education Minor.**

	24 hours of Physics coursework number above 150, excluding Physics 185	24
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\*This course will be reviewed by the State of Iowa at the beginning of the Fall 2023 semester.