



Associate in Arts at Heartland Community College to Bachelor's Degree in Physics at Illinois Wesleyan University

*This is a suggested course pattern. Students must work with their advisor to develop a curriculum plan that meets their scheduling needs. ** indicates course needed for the major. + indicates an IWU graduation requirement*

HEARTLAND COMMUNITY COLLEGE			
FIRST YEAR	COURSE NAME	CREDIT HOURS	
		FALL	SPRING
ENGL 101	Critical Reading and Writing	3	
MATH 161	Calculus I (IAI Math) (IWU MATH 176)	4	
IAI Life Science	Any IAI Life Science	4	
Language 101	Elementary Language I	4	
ENGL 102	Multimodal Composition		3
MATH 162	Calculus II (IWU MATH 177)		4
PHYS 171**	Mechanics w/Lab (IAI physical science) (IWU 105)		3
Language 102	Elementary Language II		4
COMM 101	Intro to Oral Communication		3
Total Credit Hours		15	17
SECOND YEAR	COURSE NAME	CREDIT HOURS	
		FALL	SPRING
PHYS 172**	Electricity & Magnetism w/Lab (IWU106)	4	
IAI Humanities	Any IAI Humanities	3	
Language 201+	Intermediate Language I	4	
IAI Social Behavioral Sci	Any IAI Social/Behavioral Science	3	
MATH 163	Calculus III (sub for IWU MATH 278)	4	
PHYS 173**	Fluids & Thermal Physics w/Lab		2
PHYS 174**	Quantum Physics w/Lab		2
IAI Fine Arts	Any IAI Fine Arts		3
IAI Social Behavioral Sci	Any IAI Social/Behavioral Science		3
MATH 272	Differential Equations		4
IAI Humanities/Fine Art	Any IAI Humanities/Fine Art		3
Total Credit Hours		18	17

It is recommended that you complete the IAI GECC through Heartland. Meeting all of the GECC requirements will automatically meet the Illinois Wesleyan general education requirements. In this plan, if you have not already completed additional coursework through AP credit or dual credit, you will leave Heartland missing one course to complete the GECC, a Social/Behavioral Sciences course. You may meet that requirement at IWU and through the reverse transfer process, you will complete the requirements at Heartland. In choosing this course, please work with your advisor to also complete the IWU Encountering Diversity requirement detailed below.

- Complete both PHYS 173 & 174 with a C or better to be equivalent to IWU 207

ILLINOIS WESLEYAN UNIVERSITY			
THIRD YEAR	COURSE NAME	UNIT HOURS	
		FALL	SPRING
PHYS elective xxx	Choose 1 st of 3 with lab: PHYS 301, 305, 306, 307, 308, 399, or 370 when it includes a lab	1	
3xx or 4xx	Upper-Level Elective	1	
1xx - 4xx	Elective	1	
PHYS elective xxx	Choose 2 nd of 3: PHYS 301, 305, 306, 307, 308, 399, or 370 when it includes a lab	1	
PHYS 304***	Mathematical Methods of Physical Science		1
1xx - 4xx	Work w/ Registrar's office/course for reverse transfer		1
1xx - 4xx	Elective		1
PHYS elective xxx	Choose 3 rd of 3: PHYS 301, 305, 306, 307, 308, 399, or 370 when it includes a lab		1
Total Units		4	4
FOURTH YEAR	COURSE NAME	UNIT HOURS	
		FALL	SPRING
PHYS 4xx	Choose 1 st of 2: PHYS 405, 406, 407, 408 (1 must be 405 or 406, taken fall or spring semester)	1	
3xx or 4xx	Upper-level elective	1	
Elective	Elective	1	
PHYS elective xxx	Physics course selected by the student w/ consultation & approval of the major advisor/dept chair to form a coherent program.	1	
PHYS 4xx	Choose 2 nd of 2: PHYS 405, 406, 407, 408 (1 must be 405 or 406 if not already completed)		1
3xx or 4xx	Upper-level elective		1
3xx or 4xx	Upper-level elective		1
3xx or 4xx	Upper-level elective		1
Total Units		4	4

- You should plan to complete the two years at Heartland prior to transfer to IWU as a Physics major.
- Physics majors have the option of choosing a minor at Illinois Wesleyan. If you choose a minor, work carefully with your IWU advisor and review the catalog to choose classes to complete the minor.
- ***If you take Linear Algebra, Differential Equations, and Complex Variables at Heartland, your PHYS 304 requirement will be waived. You must replace that course with an additional 300 or 400 level course at IWU to meet major requirements.
- Work with your advisor to ensure that you meet the graduation requirement of a minimum of nine upper-level courses.
- To meet IWU graduation requirements choose one course from each group. 1 **US Diversity** (CHLD 207, Film 211, HIST 135, 136, 210, MUSI 260, POS 101, SOC 110, SOC 135, or SOC 221) and 1 **Global Diversity** (ANTH 101, HIST 150, HUMA 210, HUMA 270, MUSI 160, POS 151, JAPN 202, SPAN 202) while at Heartland.

- AP scores of 3, 4, or 5 and Standard level IB scores of 5 or higher will receive 1 unit of credit.
- The IWU Second Language requirement can be met by completing the intermediate level (201) course of any language or by earning a 4 or 5 on the AP exam in a second language. Visit the IWU website for information: <https://www.iwu.edu/registrar/transfer-credit-faq.html>
- Remedial math courses may be needed to prepare for the math requirement. However, the remedial course will not transfer to IWU. College Algebra, College Trigonometry, and Precalculus are not transferable to IWU. Adjust course schedule accordingly to complete degree.
- Students should complete a minimum of 64 semester hours, not including remedial or PE courses, at HCC to be on track to complete their bachelor's degree in a total of 4 years.
- Students are required, at minimum, to complete 16 units of coursework at IWU including half of all major requirements.
- IWU graduation requirements: 32 total courses and 32 total units with 9 courses and 9 units of upper level (300/400) courses. (1 IWU unit = 4 semester hours)

Bloomington, IL 2024-2025