



**Associate in Arts at Heartland Community College to Bachelor's Degree in Biochemistry 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*

<b>HEARTLAND COMMUNITY COLLEGE</b>			
<b>FIRST YEAR</b>	<b>COURSE NAME</b>	<b>CREDIT HOURS</b>	
		<b>FALL</b>	<b>SPRING</b>
ENGL 101	Critical Reading and Writing	3	
MATH 161**	Calculus I (IWU 176)	4	
CHEM 161**	General Chemistry I w/Lab (IWU 201)	5	
Language 101	Elementary Language I	4	
ENGL 102	Multimodal Composition		3
MATH 162**	Calculus II		5
CHEM 162**	General Chemistry II w/Lab (IWU 202)		5
Language 102	Elementary Language II		4
<b>Total Credit Hours</b>		<b>16</b>	<b>17</b>
<b>SECOND YEAR</b>	<b>COURSE NAME</b>	<b>CREDIT HOURS</b>	
		<b>FALL</b>	<b>SPRING</b>
CHEM 241**	Organic Chemistry I (substitute for IWU 311)	5	
BIOL 161**	Principles of Biology I (IWU 101)	4	
Language 201+	Intermediate Language I	4	
COMM 101	Introduction to Oral Communication (Please see note about COMM 101)	3	
CHEM 242**	Organic Chemistry II (substitute for IWU CHEM 312)		5
BIOL 162**	Principles of Biology II (IWU 102)		4
IAI Fine Arts	Any IAI Fine Arts		3
SOC 101*	Introductory Sociology (IWU 101)		3
PSY 101*	Introduction to Psychology (IWU 100)		3
<b>Total Credit Hours</b>		<b>16</b>	<b>18</b>

It is recommended that you complete the IAI GECC through Heartland. Meeting 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 three courses to complete the GECC; one Social & Behavioral Sciences, and two Humanities/Fine Arts. You may take those requirements at IWU and through the reverse transfer process, complete the GECC. In choosing courses, work with your advisor to complete the IWU Encountering Diversity requirement. Those requirements are detailed below.

- Complete both BIOL 161 & BIOL 162 with a C or better to be equivalent to IWU 101 & 102
- Complete both CHEM 161 & CHEM 162 with a C or better to be equivalent to IWU 201 & 202

ILLINOIS WESLEYAN UNIVERSITY			
THIRD YEAR	COURSE NAME	UNIT HOURS	
		FALL	SPRING
<b>CHEM 414</b>	Biochemistry I w/Lab	1	
1xx - 4xx	Elective (to meet GECC)	1	
PHYS 101 or 105	General Physics or Physics I (see note below)	1	
<b>CHEM 4xx</b>	Choose 1: CHEM 304, 322, 332, 413, 432, 470	1	
	Suggested: CHEM 413 Advance Organic Chemistry		
CHEM 300	Chemistry Seminar	.25	
<b>CHEM 415</b>	Biochemistry II		1
PSY 227	Statistics (or an elective if not a premed student)		1
BIOL 212	Genetics (also offered in the fall)		1
1xx - 4xx	Elective		1
CHEM 300x	Chemistry Seminar		0
<b>Total Units</b>		<b>4.25</b>	<b>4</b>
FOURTH YEAR	COURSE NAME	UNIT HOURS	
		FALL	SPRING
<b>CHEM 321</b>	Physical Chem I: Thermodynamics	1	
<b>CHEM 301</b>	Quantitative Analysis	1.25	
<b>3xx or 4xx</b>	Upper-Level Elective	1	
1xx - 4xx	Elective (to meet GECC)	1	
CHEM 300	Chemistry Seminar	.25	
<b>CHEM 380</b>	Advanced Inorganic Synthesis and Analysis (w)		1
1xx - 4xx	Elective (to meet GECC if needed)		1
<b>3xx or 4xx</b>	Upper-Level Elective		1
<b>BIOL 3xx or 4xx</b>	Choose 1: BIOL 307, 311, 313, 315, 330, 331, 332, 410, 411, 412		1
CHEM 300x	Chemistry Seminar		0
<b>Total Units</b>		<b>4.5</b>	<b>4</b>

#### Notes

- Pre-medical Students: Pre-medical students are advised to take either HCC Introduction to Psychology (PSY 101) or IWU General Psychology (PSYC 100) before taking the Medical College Admissions Test. Similarly, Pre-medical students should take either HCC Sociology (SOC 101) or IWU Sociology.
- Work with your IWU advisor when planning the Chemistry and Biology elective courses. Some courses are not offered each semester.
- Physics: if possible, complete physics prior to arrival at IWU or during a summer semester at IWU. Options include Heartland PHYS 161 or 176 or IWU Physics 101 or 105. This will allow more time for research while at IWU.
- Science labs should not be taken online. Specifically, the lab portion must be completed in an in-person "classroom" setting. The class portion of the class/lab may be online.
- **COMM 101:** The COMM 101 course does not fulfill any IWU requirements. Students who plan to complete the GECC, plan to transfer IWU courses back to HCC for completion of the Associate's Degree, or who plan to pursue the Pharm. D. degree after the bachelor's degree, should take COMM

101. (Pharmacy schools require a speech course.) Students who plan to complete the IWU General Education program may wish to opt out of COMM 101.

- **Flexibility in Course Sequencing:** Some students may feel more comfortable taking CHEM 161/162 and BIOL 161/162 in their first year at HCC and MATH 161/162 and CHEM 241/242 in their second year at HCC. This approach allows each semester to have a better balance between quantitative and conceptual STEM coursework. This is also a good arrangement for any student who takes pre-calculus mathematics before MATH 161.
- Remedial math courses may be needed to prepare for MATH 161. However, remedial courses will not transfer to IWU. Adjust schedule and semester hour requirement accordingly to complete degree. College Algebra, College Trigonometry, and Precalculus are not transferable to IWU.
- 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>
- Only courses graded C or better will transfer. 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      2025