



**Associate in Arts at Heartland Community College to Bachelor's Degree in Data Science 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	
CSCI 130	Computer Science I	3	
IAI Humanities	Any IAI Humanities Course	3	
Language 101	Elementary Language I	4	
MATH 111 or 161	Finite or Calculus (IWU 110 or sub for 161)	3	
ENGL 102	Multimodal Composition		3
CSCI 131**	Computer Science II (IWU CS 128)		3
IAI Physical Science	Any IAI Physical Science		3-4
Language 102	Elementary Language II		4
Elective	Elective		3
<b>Total Credit Hours</b>		<b>16</b>	<b>16-17</b>
<b>SECOND YEAR</b>	<b>COURSE NAME</b>	<b>CREDIT HOURS</b>	
		<b>FALL</b>	<b>SPRING</b>
COMM 101	Intro to Oral Communication	3	
ART 231**	Graphic Design I	3	
IAI Humanities/Fine Arts	Any IAI Humanities/Fine Arts Course	3	
Language 201+	Intermediate Language I	4	
Elective	Elective	3	
MATH 141**	Intro to Statistics (IWU ECON 227)		3
IAI Life Science	Any IAI Life Science		3-4
IAI Social Behavioral Sci	IAI Social Behavioral Science (not economics)		3
Elective	Elective		4
IAI Fine Arts	Any IAI Fine Arts		3
<b>Total Credit Hours</b>		<b>16</b>	<b>16-17</b>

ILLINOIS WESLEYAN UNIVERSITY			
THIRD YEAR	COURSE NAME	UNIT HOURS	
		FALL	SPRING
DASC 225	Data Analytics with Visualization	1	
MATH 215	Linear Algebra	1	
3xx – 4xx	Upper Level Elective	1	
1xx - 4xx	Elective	1	
CS/MATH 135	Applications of Sets, Logic, and Recursion		1
CS 222	Ethics, Values, and Issues in Cybertechnology (W)		1
3xx or 4xx	Upper Level Elective		1
3xx or 4xx	Upper Level Elective		1
<b>Total Units</b>		<b>4</b>	<b>4</b>
FOURTH YEAR	COURSE NAME	UNIT HOURS	
		FALL	SPRING
CS 314	Database Systems	1	
DASC 377	Applied Data Analysis	1	
MATH 403	Computational Data Analysis	1	
Elective	Elective	1	
CS 387	Deep Learning		1
CS 3xx or 4xx	Upper Level Elective		1
3xx or 4xx	Upper Level Elective		1
1xx - 4xx	Elective		1
<b>Total Units</b>		<b>4</b>	<b>4</b>

- Choose 1 (U) US Diversity and 1 (G) Global Diversity course to meet IWU graduation requirements. **US Diversity options:** Film 211, HIST 135, HIST 136, MUSI 260, POS 101, or SOC 110. **Global Diversity options:** ANTH 101, HIST 150, MUSI 160, POS 151, RELI 215, SPAN 202
- AP scores of 3, 4, or 5 will receive 1 unit of credit. Higher level IB scores of 4 or higher will receive 1 unit of credit.
- The IWU Second Language requirement can be met by completing the intermediate level (XXX-103) course of any language or by earning a 4 or 5 on the AP exam in a second language. Visit the IWU website <https://www.iwu.edu/languages/> for a list of languages taught.
- Remedial math courses may be needed to prepare for the math requirement. However, the remedial course will not transfer 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)

12/2023