

Indian Hills CC – Drake Computer Science Transfer Plan Articulation of courses for this plan are based upon the Indian Hills Community College 2010 -2011 General Catalog and the Drake University 2010 – 2011 General Catalog

Indian Hills CC and Drake faculty have developed this transfer plan that prepares IHCC students to transfer into Drake’s Bachelor of Arts or Bachelor of Science Computer Science degree program.

The term-by-term course outline below illustrates a plan for a first-year student who does not have previous college experience or credits. Courses are accepted by Drake at their IHCC value. A cumulative total of 66 academic credits earned at IHCC over the 7 terms may be accepted for transfer to Drake. IHCC courses designated as “Career-Tech” in the IHCC-Drake Articulation Agreement will be reviewed and considered for transfer elective credit at the discretion of the Associate Dean for the College of Arts and Sciences. A maximum of 16 semester hours of career-technical credit may be counted toward a bachelors degree at Drake University. *In the program outline below, an asterisk (*) denotes IHCC Career-Tech courses.*

Transfer students who have attempted/earned college credits prior to IHCC should consult Drake’s program advisors, Dr. Timothy Urness (515-271-2118) or Dr. Keith Summerville (515-271-2265) prior to registration to discuss any potential course duplication and to determine which courses can be transferred in to Drake to insure graduation with a bachelor’s degree in 2 additional years

Drake: AOI fulfillment – students should refer to the Drake Curriculum section on pages **11-14 of the October 2010** IHCC-Drake articulation agreement for further information Drake’s core program requirements and for addition details on IHCC’s course alternatives for the **ten Areas of Inquiry (AOI)**.

Indian Hills CC Courses

* = Career-Tech () = Drake transfer credit notation – ie (CS elec) (IS 40)

Term 1: IHCC Courses

Credit	Acronym	Title
3	CIS 121	Intro to Programming Logic (CS elec)
3	CIS 159	Programming with Alice (CS elec)
2	CIS 845	Quality Assurance *
3	CSC 110	Introduction to Computers (IS 40)
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11 hrs		

Term 2: IHCC Courses

Credit	Acronym	Title
3	CIS 169	C# (CS elec)
2	CIS 345	Data Base Design (IS 160)
3	CIS 402	COBOL (IS 50)
3	*** **	Emphasis Option
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11 hrs		

Term 3: IHCC Courses

Credit	Acronym	Title
3	CIS 171	Java (CS elec)
3	CIS 412	COBOL II (IS 90)
3	*** **	Communications Elective
3	*** **	Emphasis Option
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12 hrs		

Term 4: IHCC Courses

Credit	Acronym	Title
3		Emphasis Option AND
3	CIS 175	Java II (CS elec) OR
	CIS 932	Internship 4 hrs (CS elec)
2	CIS 199	XML (CS elec)
*	*** **	Approved Mathematical Reasoning Course
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11-12 hrs		

Term 5: IHCC Courses

Credit	Acronym	Title
2	CIS 337	SQL/Oracle (CS elec)
2	CIS 503	Intro to Systems Analysis (CS elec)
3	CIS 604	Visual Basic (IS 80)
2	CIS 728	Programmer Communication (CS elec)
3	*** **	Emphasis Option
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12	hrs	

Term 6: IHCC Courses

Credit	Acronym	Title
2	ADM 221	Career Development Skills *
2	CIS 850	Programming Field Project I (CS elec)
	CIS 175	Java II (CS elec)
3	CIS 612	Advanced Visual Basic (IS 80)
3	*** **	Emphasis Option
2	*** **	Approved Scientific Systems
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12	hrs	

Term 7: IHCC Courses

Credit	Acronym	Title
3	CIS 161	C++ (CS elec)
	CIS 851	Programming Field Project II (CS elec) OR
2	*** **	Emphasis Option
3	*** **	Emphasis Option
3	*** **	Approved Global & Cultural Elective (It is recommended students consult the Drake University – IHCC Transfer Planning Guide and use one of the following courses: ANT 105, CLS 150, CLS 155, CLS 156, CLS 175, CLS 222, DRA 210, GEO 121, LIT 150, MUS 202,
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11	hrs	

Drake University Courses: *Students may choose from two sequence options.*

Sequence One: *This first sequence is geared to students who have taken Calculus I. Those courses classified as an Area of Inquiry (AOI) satisfy Drake’s general education curriculum and are required of all students.*

Term 8: Drake Courses (Fall)

Credit	Acronym	Title
3	CS 130	Comp Organization & Assembly
3	Math 80	Linear Algebra
3	Math 54	Discrete Mathematics
3	His ***	Historical Foundations AOI
3	*** **	Engaged Citizen AOI
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15	hrs	

Term 9: Drake Courses (Spring)

Credit	Acronym	Title
3	CS 66	Intro to Computer Science II
3	CS 135	Programming Languages
3	CS 160	Operating Systems
3	His ***	Historical Foundations AOI
3	*** **	Values & Ethics AOI
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15	hrs	

Term 10: Drake Courses (Fall)

Note: advisor consultation/approval required to determine appropriate course selection

Credit	Acronym	Title
3	CS 143 (even yr)	Artificial Intelligence
OR		
3	CS 161 (odd yr)	Compiler Construction
AND		
3	CS 147 (even yr)	Computer Graphics
OR		
3	CS 146	Object Oriented Software
OR		
3	IS 145	Website Technology
3	CS 195	Computer Science Capstone
3	*** **	Artistic Experience AOI
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12 hrs

Term 11: Drake Courses (Spring)

Credit	Acronym	Title
3	CS 139 (even yr)	Theory of Computation
OR		
3	CS 137 (odd yr)	Data Structures & Algorithm Analysis
AND		
3	CS 160 (even yr)	Operating Systems
OR		
3	CS 172 (odd yr)	Digital Computer Organization
OR		
3	CS 165 (even yr)	Intro to Numerical Analysis
OR		
3	CS *** (odd yr)	CS Elective
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3-4 *** ** Scientific Literacy AOI
3 *** ** Elective

12 – 13 hrs

Sequence Two: *The second sequence is geared to those students who have yet to take Calculus I.* Those courses classified as an Area of Inquiry (AOI) satisfy Drake’s general education curriculum and are required of all students.

Term 8: Drake Courses (Fall)

Credit	Acronym	Title
3	CS 130	Comp Organization & Assembly
4	Math 50	Calculus I
3	Math 54	Discrete Mathematics
3	*** **	Historical Foundations AOI
3	*** **	Engaged Citizen AOI
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16 hrs		

Term 9: Drake Courses (Spring)

Credit	Acronym	Title
3	CS 66	Intro to Computer Science II
3	CS 135	Programming Languages
3	CS 160	Operating Systems
3	Math 80	Linear Algebra
3	*** **	Values & Ethics AOI
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15 hrs		

Term 10: Drake Courses (Fall)

Note: advisor consultation/approval required to determine appropriate course selection

Credit	Acronym	Title
3	CS 143 (even yr)	Artificial Intelligence
OR		
3	CS 161 (odd yr)	Compiler Construction
AND		
3	CS 147 (even yr)	Computer Graphics
OR		
3	CS 146 (odd yr)	COURSE TITLE?
3	CS 195	Computer Science Capstone
3	*** **	Artistic Experience AOI
3	*** **	Global & Cultural Understanding AOI
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15 hrs		

Term 11: Drake Courses (Spring)

Credit	Acronym	Title
3	CS 139 (even yr)	Theory of Computation
OR		
3	CS 137 (odd yr)	Data Structures & Algorithm Analysis
AND		
3	CS 160 (even yr)	Operating Systems
OR		
3	CS 172 (odd yr)	Digital Computer Organization
3	CS 165 (even yr)	Intro to Numerical Analysis
OR		
3	CS *** (odd yr)	CS ELECTIVE?
3-4	*** **	Scientific Literacy AOI
3	*** **	Historical Foundations AOI
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15 – 16 hrs		

* total credit determination based on individual review of courses completed at IHCC