# Previous Report 2015-16

### KCC 10 11.02020200 Computer Programming, Specific Applications.

	MPUS N e of Awa		S	Computer Software Development			ΝΤΔΟΊ	<u>r hour</u>	5	l			
	0.0302		0	Computer bortware Development	Credits			Clinic		Δlt	Gen	Foot	ContHr
1130	J U J U Z	11 05			Cicuits	Lecture	Lau	Chine	WOIK	AIL	Ed	Note	
											La	11010	CredHr
				Term 1		L				I			
1	CSC	110	*	Introduction to Computers	3.00	32.00	32.00	0.00	0.00				3.00
2	CIS	121	*	Introduction to Programming Logic	3.00	32.00	32.00	0.00	0.00				3.00
3	CIS	207	*	Fundamentals of Web Programming	3.00	32.00	32.00	0.00	0.00				3.00
4	ENG	105		Composition I	3.00	48.00	0.00	0.00	0.00		С		3.00
5	MAT	708		Algebra Mastery 2	3.00	48.00	0.00	0.00	0.00	М	S		3.00
6	MAT	102		Intermediate Algebra	4.00	64.00	0.00	0.00	0.00	А	S		4.00
7	MAT	120		College Algebra	3.00	48.00	0.00	0.00	0.00	А	S		3.00
8	MAT	136		Trigonometry and Analytic Geometry	5.00	80.00	0.00	0.00	0.00	А	S		5.00
9	MAT	138		College Algebra with Limits	4.00	64.00	0.00	0.00	0.00	A	S		4.00
10	MAT	140		Finite Math	3.00	48.00	0.00	0.00	0.00	A	S		3.00
11	MAT	150		Discrete Math	3.00	48.00	0.00	0.00	0.00	A	S		3.00
12	MAT	155		Statistical Ideas	3.00	48.00	0.00	0.00	0.00	A	S		3.00
12	MAT	157		Statistics	4.00	64.00	0.00	0.00	0.00	A	S		4.00
13	MAT	162		Business Statistics	4.00	64.00	0.00	0.00	0.00	A	S		4.00
	MAT	162			4.00 3.00	48.00	0.00	0.00	0.00	A	S		3.00
15				Business Calculus		48.00 64.00		0.00	0.00	A A	S S		4.00
16	MAT	210		Calculus I	4.00		0.00	0.00	0.00	A	3		4.00
				Term 2	erm Total	15.00							
17	CIS	335	*	Relational Database Technologies & SQL	3.00	32.00	32.00	0.00	0.00				3.00
18	CIS	171	*	Java Programming I	3.00	32.00	32.00	0.00	0.00	Μ			3.00
19	CSC	142	*	Computer Science	4.00	64.00	0.00	0.00	0.00	A			4.00
20	CIS	622	*	.NET Development I	3.00	32.00	32.00	0.00	0.00				3.00
20	MGT	145		Human Relations in Management	3.00	48.00	0.00	0.00	0.00	М	Н		3.00
22	PSY	111		Introduction to Psychology	3.00	48.00	0.00	0.00	0.00	A	H		3.00
23	ECN	120		Principles of Macroeconomics	3.00	48.00	0.00	0.00	0.00	A	Н		3.00
23	ECN	130		Principles of Microeconomics	3.00	48.00	0.00	0.00	0.00	A	H		3.00
25	GEO	115		Human Geography	3.00	48.00	0.00	0.00	0.00	A	H		3.00
23 26	GEO	121		World Regional Geography	3.00	48.00	0.00	0.00	0.00	Â	H		3.00
20	GEO	162		Geography of Iowa	3.00	48.00	0.00	0.00	0.00	A	H		3.00
27		102		American National Government	3.00	48.00	0.00	0.00	0.00	A	H		3.00
	POL			International Relations	3.00	48.00	0.00	0.00	0.00	A	H		3.00
29 30	POL	121 125			3.00	48.00	0.00	0.00	0.00	A	H		3.00
	POL			Comparative Government and Politics		48.00		0.00					3.00
31	POL	150		Introduction to U. S. Foreign Policy	3.00		0.00		0.00	A	H		3.00
32	PSY	121		Developmental Psychology	3.00	48.00	0.00	0.00	0.00	A	H		
33	SOC	110		Introduction to Sociology	3.00	48.00	0.00	0.00	0.00	A	H		3.00
34	SOC	115		Social Problems	3.00	48.00	0.00	0.00	0.00	A	H		3.00
35	SOC	120		Marriage and Family	3.00	48.00	0.00	0.00	0.00	A	Н		3.00
36	SOC	200		Minority Group Relations	3.00	48.00	0.00	0.00	0.00	A	Н		3.00
37	SOC	265		Introduction to Lesbian, Gay, Bisexual & Transgender Studies	3.00	48.00	0.00	0.00	0.00	A	Н		3.00
38	SOC	284		Sociology of the Environment	3.00	48.00	0.00	0.00	0.00	A	Н		3.00
38 39	ACC	XXX	*	Elective	3.00	48.00	0.00	0.00	0.00	M	11	1	3.00
								0.00		A			3.00
40 41	BIO	XXX VVV		Elective	3.00	48.00	0.00 0.00		0.00 0.00	A A		1	3.00
41	BUS	XXX 200	ж	Elective Web Design Principles	3.00	48.00		0.00				1	
42	BCA	290	*	Web Design Principles	3.00	32.00	32.00	0.00	0.00	A		1	3.00
43	CIS	135		Microcomputer Operating Systems	3.00	48.00	0.00	0.00	0.00	A		1	3.00
44	CIS	334		PHP/Apache/MySQL	3.00	32.00	32.00	0.00	0.00	A		1	3.00
45	CHM	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
46	CSC	142		Computer Science	4.00	64.00	0.00	0.00	0.00	A		1	4.00
47	CSC	160		Software Design and Development	4.00	64.00	0.00	0.00	0.00	A		1	4.00
48	CSC	175		Computer Organization and Assembly Language	4.00	64.00	0.00	0.00	0.00	Α		1	4.00

12/2010	2			Print	omparison R	eport							14
				Programming									
49	EGR	XXX		Elective	3.00	48.00	0.00	0.00	0.00	Α		1	3.00
50	ENV	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
51	FIN	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
52	GIS	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
53	MAT	136		Trigonometry and Analytic Geometry	5.00	80.00	0.00	0.00	0.00	Α	S	1	5.00
54	MAT	140		Finite Math	3.00	48.00	0.00	0.00	0.00	А	S	1	3.00
55	MAT	150		Discrete Math	3.00	48.00	0.00	0.00	0.00	А	S	1	3.00
56	MAT	157		Statistics	4.00	64.00	0.00	0.00	0.00	Α	S	1	4.00
57	MAT	162		Business Statistics	4.00	64.00	0.00	0.00	0.00	А	S	1	4.00
58	MAT	165		Business Calculus	3.00	48.00	0.00	0.00	0.00	А	S	1	3.00
59	MDT	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
60	MGT	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
61	MKT	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
62	NET	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
63	MGT	121		Project Management Basics	3.00	48.00	0.00	0.00	0.00	Α		1	3.00
64	PHY	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
65	BUS	932		Internship	1.00	0.00	0.00	0.00	64.00	А			1.00
					Term Total	15.00							
	ana	101		Term 3	• • • •	10.00							
66	SPC	101		Fundamentals of Oral Communication	3.00	48.00	0.00	0.00	0.00	Μ	С		3.00
. 67	COM	744		Oral Communication in the Workplace	3.00	48.00	0.00	0.00	0.00	A	С		3.00
68	ENG	106		Composition II	3.00	48.00	0.00	0.00	0.00	Α	С		3.00
69	SPC	112		Public Speaking	3.00	48.00	0.00	0.00	0.00	Α	C		3.00
70	ENG	108		Composition II: Technical Writing	3.00	48.00	0.00	0.00	0.00	А	С		3.00
					Term Total	3.00							
71	CIS	175	*	Term 4	2.00	22.00	22.00	0.00	0.00				2.00
72	CIS	624	.1.	Java Programming II	3.00	32.00	32.00	0.00	0.00				3.00
72	CIS	504	*	NET Development II Structured Systems Analysis	3.00	32.00	32.00	0.00 0.00	0.00				3.00
74	CIS	280	*	Client Side Scripting	3.00	32.00	32.00		0.00				3.00
74	BUS	280	*	Employment Search and Workplace Success	3.00 1.00	32.00 16.00	32.00 0.00	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$				3.00
76	BUS	XXX		Elective	3.00	48.00	0.00	0.00	0.00	М		1	1.00
77	ACC	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1 1	3.00 3.00
78	BIO	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
79	BCA	290	*	Web Design Principles	3.00	32.00	32.00	0.00	0.00	A		1	3.00
80	CIS	135		Microcomputer Operating Systems	3.00	48.00	0.00	0.00	0.00	A		1	3.00
81	CIS	334		PHP/Apache/MySQL	3.00	32.00	32.00		0.00	A		1	3.00
82	CHM			Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
83	CSC	142		Computer Science	4.00	64.00	0.00	0.00	0.00	A		1	4.00
84	CSC	160		Software Design and Development	4.00	64.00	0.00	0.00	0.00	A		1	4.00
85	CSC	175		Computer Organization and Assembly Language		64.00	0.00	0.00	0.00	A		1	4.00
				Programming	,		0.00	0.00	0100			•	
86	MDT	240	*	Objective-C Development	3.00	32.00	32.00	0.00	0.00	А		1	3.00
87	EGR	XXX		Elective	3.00	48.00	0.00	0.00	0.00	Α		1	3.00
88	ENV	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
89	FIN	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
90	GIS	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
91	MAT	136		Trigonometry and Analytic Geometry	5.00	80.00	0.00	0.00	0.00	А	S	1	5.00
92	MAT	140		Finite Math	3.00	48.00	0.00	0.00	0.00	А	S	1	3.00
93	MAT	150		Discrete Math	3.00	48.00	0.00	0.00	0.00	А	S	1	3.00
94	MAT	157		Statistics	4.00	64.00	0.00	0.00	0.00	Α	S	1	4.00
95	MAT	162		Business Statistics	4.00	64.00	0.00	0.00	0.00	А	S	1	4.00
96	MAT	165		Business Calculus	3.00	48.00	0.00	0.00	0.00	А	S	1	3.00
97	MGT	XXX		Elective	3.00	48.00	0.00	0.00	0.00	Α		1	3.00
98	MDT	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
99	MGT	121	*	Project Management Basics	3.00	48.00	0.00	0.00	0.00	А		1	3.00
100	MKT	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
101	NET	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
102	PHY	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
103	BUS	932		Internship	1.00	0.00	0.00	0.00	64.00	А			1.00
					Term Total	16.00							
				Torm 5									

Term 5

5/12/2016 Print Comparison Report 3.00 181 \* Java III 3.00 32.00 0.00 0.00 104 CIS 32.00 .NET Development III \* 0.00 3.00 105 CIS 626 3.00 32.00 32.00 0.00 4.00 153 \* 0.00 0.00 0.00 4.00 106 CSC Data Structures 64.00 107 CIS 802 \* Software Development Capstone 3.00 32.00 32.00 0.000.00 3.00 108 ART XXX Elective 3.00 48.00 0.00 0.00 0.00 Μ Η 2 3.00 XXX 3.00 48.00 0.00 0.00 0.00 Η 2 3.00 109 CLS Elective А 2 110 DRA XXX Elective 3.00 48.00 0.00 0.000.00 А Η 3.00 2 XXX 3.00 48.00 0.000.00 0.00 A Η 3.00 HIS Elective 111 2 Η 112 HUM XXX Elective 3.00 48.00 0.00 0.00 0.00 Α 3.00 2 3.00 113 LIT XXX Elective 3.00 48.00 0.00 0.000.00 A Η 2 114 MUA XXX Elective 3.00 48.00 0.00 0.000.00 А Н 3.00 115 MUS XXX Elective 3.00 48.00 0.00 0.00 0.00 A Н 2 3.00 A 2 3.00 116 PHI XXX Elective 3.00 48.00 0.00 0.000.00 Η 117 REL XXX Elective 3.00 48.00 0.00 0.000.00A Н 2 3.00 16.00 Term Total

Program Total 65.00

Ty	MPUS I pe of Aw E <b>RT1</b>			JAVA PROGRAMMING		СО	NTAC	Γ HOUR	S				
ITS	SO 03 02	2 11 03			Credits	Lecture	Lab	Clinic	Work	Alt	Gen Ed	Foot Note	ContHr / CredHr
				Term 1						]	Eu	ivote	eleann
1	CIS	121	*	Introduction to Programming Logic	3.00	32.00	32.00	0.00	0.00				3.00
				T	erm Total	3.00							
				Term 2									
2	CIS	171	*	Java Programming 1	3.00	32.00	32.00	0.00	0.00	Μ			3.00
3	CSC	142	*	Computer Science	4.00	64.00	0.00	0.00	0.00	А			4.00
4	CIS	335	*	Relational Database Technologies & SQL	3.00	32.00	32.00	0.00	0.00				3.00
				Т	erm Total	6.00							
				Term 3									
5	CIS	175	*	Java Programming II	3.00	32.00	32.00	0.00	0.00				3.00
				Т	erm Total	3.00							
				Term 4									
6	CIS	181	*	Java III	3.00	32.00	32.00	0.00	0.00				3.00
					erm Total	3.00							
				Prog	ram Total	15.00							
CA	MPUSI	N/A											
										,			

	pe of A E <b>RT2</b>	ward:		.NET PROGRAMMING		CO	NTAC	Γ HOUR	S				
		2 11 03			Credits	Lecture	Lab	Clinic	Work	Alt	Gen Ed	Foot Note	ContHr / CredHr
				Term 1		L				1			
1	CIS	121	*	Introduction to Programming Logic	3.00	32.00	32.00	0.00	0.00				3.00
					Term Total	3.00							
				Term 2									
2	CIS	335	*	Relational Database Technologies & SQL	2 3.00	32.00	32.00	0.00	0.00				3.00
3	CIS	622	*	NET Development I	3.00	32.00	32.00	0.00	0.00				3.00
					Term Total	6.00							
				Term 3									
4	CIS	624	*	.NET Development II	3.00	32.00	32.00	0.00	0.00				3.00
				-	Term Total	3.00							
				Term 4									
5	CIS	626	*	.NET Development III	3.00	32.00	32.00	0.00	0.00				3.00
				-	Term Total	3.00							
				Pro	gram Total	15.00							
CA	MPUS	N/A											
	pe of A			Database Technologies		CO	NTAC	Γ HOUR	S				
	ERT3												
		2 11 03			Credits	Lecture	Lab	Clinic	Work	Alt	Gen Ed	Foot Note	ContHr / CredHr

				Term 1							
1	CSC	110	*	Introduction to Computers	3.00	32.00	32.00	0.00	0.00		3.00
2	CIS	121	*	Introduction to Programming Logic	3.00	32.00	32.00	0.00	0.00	М	3.00
3	CIS	128	*	Programming Concepts	3.00	32.00	32.00	0.00	0.00	А	3.00
4	CIS	207	*	Fundamentals of Web Programming	3.00	32.00	32.00	0.00	0.00		3.00
				Те	erm Total	9.00					
				Term 2							
5	CIS	335	*	Relational Database Technologies &	3.00	32.00	32.00	0.00	0.00		3.00
				SQL							
6	BCA	167	*	Comprehensive Databases	3.00	32.00	32.00	0.00	0.00		3.00
				Te	erm Total	6.00					
				Term 3							
. 7	CIS	334	*	PHP/Apache/MySQL	3.00	32.00	32.00	0.00	0.00	М	3.00
8	CIS	348	*	Procedural Language & SQL	3.00	32.00	32.00	0.00	0.00	А	3.00
9	CIS	353	*	Database Models and Design	3.00	32.00	32.00	0.00	0.00		3.00
				Strategies							

Term Total 6.00

Program Total 21.00

Ту СІ	AMPUS N pe of Awa E <b>RT4</b> SO <b>03 02</b>	ard:		Mobile App Development	Credits		NTACT Lab	Γ HOUR Clinic		Alt	Gen	Foot	ContHr/
											Ed	Note	CredHr
				Term 1			*******						
1	CIS	121	*	Introduction to Programming	3.00	32.00	32.00	0.00	0.00				3.00
				Logic									
					Term Total	3.00							
				Term 2									
2	CIS	171	*	Java Programming I	3.00	32.00	32.00	0.00	0.00	М			3.00
3	CSC	142	*	Computer Science	4.00	64.00	0.00	0.00	0.00	А			4.00
4	MDT	240	*	Objective-C Development	3.00	32.00	32.00	0.00	0.00				3.00
					Term Total	6.00							
				Term 3									
5	MDT	340	*	IOS App Development	3.00	32.00	32.00	0.00	0.00				3.00
6	MDT	350	*	Android App Development	3.00	32.00	32.00	0.00	0.00				3.00
					Term Total	6.00							
				Pi	rogram Total	15.00							

#### Footnotes

1: Select any 3-credit course with the given 3-letter prefix from our list of Approved Elective Courses in these categories. Be advised that taking a course plus its prerequisite will increase your program credit total.

2: Select any 3-credit course with the given 3-letter prefix from our list of General Education Courses in the History/Cultures or Humanities categories. There are over 70 courses that fulfill this General Education requirement and some have prerequisite courses. Be advised that taking a course plus its prerequisite will increase your program credit total.

	SL	JMMARY			
AAS		Contact	Hours		
Term	Cr H	Lecture	Lab	Clinical	Work Exp
Term 1	15.00	192.00	96.00	0.00	0.00
Term 2	15.00	192.00	96.00	0.00	0.00
Term 3	3.00	48.00	0.00	0.00	0.00
Term 4	16.00	192.00	128.00	0.00	0.00
Term 5	16.00	208.00	96.00	0.00	0.00
CERT1		Contact	Hours		
Term	Cr H	Lecture	Lab	Clinical	Work Exp
Term 1	3.00	32.00	32.00	0.00	0.00
Term 2	6.00	64.00	64.00	0.00	0.00
Term 3	3.00	32.00	32.00	0.00	0.00
Term 4	3.00	32.00	32.00	0.00	0.00
CERT2		Contact ]	Hours		
Term	Cr H	Lecture	Lab	Clinical	Work Exp
Term 1	3.00	32.00	32.00	0.00	0.00
Term 2	6.00	64.00	64.00	0.00	0.00
Term 3	3.00	32.00	32.00	0.00	0.00
Term 4	3.00	32.00	32.00	0.00	0.00

5/1	2/201	16
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CERT3			Contact	Hours		
Term		Cr H	Lecture	Lab	Clinical	Work Exp
Term 1	_	9.00	96.00	96.00	0.00	0.00
Term 2		6.00	64.00	64.00	0.00	0.00
Term 3		6.00	64.00	64.00	0.00	0.00
CERT4			Contact	Hours		
Term		Cr H	Lecture	Lab	Clinical	Work Exp
Term 1	_	3.00	32.00	32.00	0.00	0.00
Term 2		6.00	64.00	64.00	0.00	0.00
Term 3		6.00	64.00	64.00	0.00	0.00
			COMPL	IANCE		
Award	Cr. H	I Weeks	Avg Per	Gen Ed	Gen Ed	% Tech
Туре			Term	Cr. H	Categ.	Core
AAS	65.0	0 76.00	13.00	20.00	3.00	72.31%
CERT1	15.0	0 5 6 6 6 6	3.75	0.00	0.00	100.00%
CERT2	15.0	0	3.75	0.00	0.00	100.00%
CERT3	21.0	0 48.00	7.00	0.00	0.00	100.00%
CERT4	15.0	0 48.00	5.00	0.00	0.00	100.00%

Updating courses in the Java track making the courses three credits, replacing old database courses with new Database Technologies & SQL, and new Mobile App Development courses. The program is adding an additional approved elective and two new certificates in Mobile Apps Development and Database Technologies. KCC

## **Current Report**

10

11.02020200

### Computer Programming, Specific Applications.

2016-17

Тур	MPUS N e of Aw	ard: AA	s	Computer Software Development			DNTAC			]			
115	O 03 02	11 03			Credits	Lecture	Lab	Clinic	e Work	Alt	Gen Ed	Foot Note	ContHr / CredHr
				Term 1						1			Citum
1	CSC	110	*	Introduction to Computers	3.00	32.00	32.00	0.00	0.00				3.00
2	CIS	121	*	Introduction to Programming Logic	3.00	32.00	32.00	0.00	0.00				3.00
3	CIS	207	*	Fundamentals of Web Programming	3.00	32.00	32.00	0.00	0.00				3.00
4	ENG	105		Composition I	3.00	48.00	0.00	0.00	0.00		С		3.00
5	GEM	XXX		General Education: Mathematics	3.00	48.00	0.00	0.00	0.00		S		3.00
					Term Total	15.00							
	010			Term 2									
6	CIS	335	*	Relational Database Technologies & SQL	3.00	32.00	32.00	0.00	0.00				3.00
7	CIS	171	*	Java Programming I	3.00	32.00	32.00	0.00	0.00	М			3.00
8	CSC	142	*	Computer Science	4.00	64.00	0.00	0.00	0.00	А			4.00
9	CIS	622	*	NET Development I	3.00	32.00	32.00	0.00	0.00				3.00
10	MGT	145		Human Relations in Management	3.00	48.00	0.00	0.00	0.00	М	Н		3.00
11	PSY	111		Introduction to Psychology	3.00	48.00	0.00	0.00	0.00	Α	H		3.00
12	ECN	120		Principles of Macroeconomics	3.00	48.00	0.00	0.00	0.00	A	Н		3.00
13 14	ECN GEO	130		Principles of Microeconomics	3.00	48.00	0.00	0.00	0.00	A	Н		3.00
14	GEO	115 121		Human Geography World Degional Cooperation	3.00	48.00	0.00	0.00	0.00	A	Н		3.00
16	POL	121		World Regional Geography American National Government	3.00	48.00	0.00	0.00	0.00	A	H		3.00
17	POL	121		International Relations	3.00	48.00	0.00	0.00	0.00	A	Н		3.00
18	POL	121		Comparative Government and Politics	3.00	48.00	0.00	0.00	0.00	A	H		3.00
19	POL	125		Introduction to U. S. Foreign Policy	3.00 3.00	48.00	0.00	0.00	0.00	A	H		3.00
20	PSY	121		Developmental Psychology	3.00	48.00 48.00	0.00 0.00	0.00 0.00	0.00	A	H		3.00
20	SOC	110		Introduction to Sociology	3.00	48.00	0.00	0.00	$\begin{array}{c} 0.00\\ 0.00\end{array}$	A A	H H		3.00
22	SOC	115		Social Problems	3.00	48.00	0.00	0.00	0.00	A A	н Н		3.00 3.00
23	SOC	120		Marriage and Family	3.00	48.00	0.00	0.00	0.00	A A	п Н		3.00
24	SOC	200		Minority Group Relations	3.00	48.00	0.00	0.00	0.00	A	п Н		3.00
25	SOC	265		Introduction to Lesbian, Gay, Bisexual &	3.00	48.00	0.00	0.00	0.00		H		3.00
. 20	500	205		Transgender Studies	5.00	40.00	0.00	0.00	0.00	Л	11		3.00
26	SOC	284		Sociology of the Environment	3.00	48.00	0.00	0.00	0.00	A	Н		3.00
27	ACC	XXX	*	Elective	3.00	48.00	0.00	0.00		M		1	3.00
28	BIO	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
29	BUS	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
. 30	BCA	290	*	Web Design Principles	3.00	32.00		0.00	0.00	A		1	3.00
31	CIS	135		Microcomputer Operating Systems	3.00	48.00	0.00	0.00		A		1	3.00
32	CIS	334		PHP/Apache/MySQL	3.00	32.00	32.00	0.00		А		1	3.00
33	CHM	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
34	CSC	142		Computer Science	4.00	64.00	0.00	0.00	0.00	А		1	4.00
35	CSC	160		Software Design and Development	4.00	64.00	0.00	0.00	0.00	А		1	4.00
36	CSC	175		Computer Organization and Assembly Language Programming	e 4.00	64.00	0.00	0.00	0.00	A		1	4.00
37	CIS	450		PLTW - Computer Science Principles	3.00	16.00	64.00	0.00	0.00	А		1	3.00
38	CIS	342		PHP/Apache/MySQL II	3.00	32.00	32.00	0.00	0.00	A		1	3.00
39	CIS	249		Web Languages	3.00	32.00	32.00	0.00	0.00	А		1	3.00
40	CIS	353		Database Models and Design Strategies	3.00	32.00		0.00		А		1	3.00
41	CIS	370		Fundamentals of 2D Visualizations and Games	3.00	32.00		0.00	0.00	А		1	3.00
42	CIS	371		Developing 3D Simulations and Games	3.00	32.00	32.00	0.00	0.00	А		1	3.00
43	EGR	XXX		Elective		48.00		0.00	0.00	А			3.00
44	ENV	XXX		Elective		48.00		0.00		A			3.00
45	FIN	XXX		Elective		48.00		0.00		A			3.00
46	GIS	XXX		Elective		48.00		0.00		A			3.00
47	MAT	136		Trigonometry and Analytic Geometry	5.00	80.00	0.00	0.00	0.00	А	S	1	5.00

5/12/2016				Print C	omparison R	eport							
48	MAT	140		Finite Math	3.00	48.00	0.00	0.00	0.00	А	S	1	3.00
40 49	MAT	150		Discrete Math	3.00	48.00	0.00	0.00	0.00	A	S	1	3.00
49 50	MAT	150		Statistics	4.00	48.00 64.00	0.00	0.00	0.00	A	S	1	4.00
	MAT	162		Business Statistics	4.00	64.00	0.00	0.00	0.00	A	S	1	4.00
51											S		
52	MAT	165		Business Calculus	3.00	48.00	0.00	0.00	0.00	A	3	1	3.00
53		XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
54		XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
55		XXX		Elective	3.00	48.00	0.00	0.00	0.00	Α		1	3.00
56	NET	XXX		Elective	3.00	48.00	0.00	0.00	0.00	Α		1	3.00
57	MGT	121		Project Management Basics	3.00	48.00	0.00	0.00	0.00	А		1	3.00
58	PHY	XXX		Elective	3.00	48.00	0.00	0.00	0.00	А		1	3.00
59	BUS	932		Internship	1.00	0.00	0.00	0.00	64.00	А			1.00
					Term Total	15.00							
				Term 3									
60	SPC	101		Fundamentals of Oral Communication	3.00	48.00	0.00	0.00	0.00	М	С		3.00
61	COM	744		Oral Communication in the Workplace	3.00	48.00	0.00	0.00	0.00	А	C		3.00
62	ENG	106		Composition II	3.00	48.00	0.00	0.00	0.00	A	$\mathbf{C}$		3.00
63	SPC	112		Public Speaking	3.00	48.00	0.00	0.00	0.00	Α	С		3.00
64	ENG	108		Composition II: Technical Writing	3.00	48.00	0.00	0.00	0.00	Α	С		3.00
					Term Total	3.00							
				Term 4									
65	CIS	175	*	Java Programming II	3.00	32.00	32.00	0.00	0.00				3.00
66	CIS	624		.NET Development II	3.00	32.00	32.00	0.00	0.00				3.00
67	CIS	504	*	Structured Systems Analysis	3.00	32.00	32.00	0.00	0.00				3.00
68	CIS	280	*	Client Side Scripting	3.00	32.00	32.00	0.00	0.00				3.00
69	BUS	290	*	Employment Search and Workplace Success	1.00	16.00	0.00	0.00	0.00				1.00
70	BUS	XXX		Elective	3.00	48.00	0.00	0.00	0.00	М		1	3.00
70	ACC	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
72	BIO	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
72	BCA	290	*	Web Design Principles	3.00	32.00	32.00	0.00	0.00	A		1	3.00
73 74	CIS	135		Microcomputer Operating Systems	3.00	48.00	0.00	0.00	0.00	A		1	3.00
- 75	CIS	334			3.00	32.00	32.00	0.00	0.00	A		1	3.00
- 75	CHM	XXX		PHP/Apache/MySQL Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
77	CSC	142		Computer Science	4.00	64.00	0.00	0.00	0.00	A		1	4.00
78	CSC	160		Software Design and Development	4.00	64.00	0.00	0.00	0.00	A		1	4.00
79	CSC	175		Computer Organization and Assembly Languag Programming	ge 4.00	64.00	0.00	0.00	0.00	A		1	4.00
80	CIS	450	ж	PLTW - Computer Science Principles	3.00	16.00	64.00	0.00	0.00	А		1	3.00
81	CIS	342		PHP/Apache/MySQL II	3.00	32.00	32.00	0.00	0.00	Α		1	3.00
82	CIS	249		Web Languages	3.00	32.00	32.00	0.00	0.00	Α		1	3.00
83	CIS	353		Database Models and Design Strategies	3.00	32.00	32.00	0.00	0.00	А		1	3.00
84	CIS	370		Fundamentals of 2D Visualizations and Games	3.00	32.00		0.00	0.00	Α		1	3.00
85	CIS	371		Developing 3D Simulations and Games	3.00	32.00	32.00	0.00	0.00	A		1	3.00
86	MDT	240	*	Objective-C Development	3.00	32.00	32.00	0.00	0.00	A		1	3.00
87	EGR	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
88	ENV	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
89	FIN	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
90	GIS	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
91	MAT	136		Trigonometry and Analytic Geometry	5.00	80.00	0.00	0.00	0.00	A	S	1	5.00
92	MAT	140		Finite Math	3.00	48.00	0.00	0.00	0.00	A	S	1	3.00
92 93		140		Discrete Math	3.00	48.00	0.00	0.00	0.00	A	S	1	3.00
	MAT								0.00	A			4.00
94 05	MAT	157		Statistics	4.00	64.00	0.00	0.00		A	S S	1	4.00
95	MAT	162		Business Statistics	4.00	64.00	0.00	0.00	0.00			1	
96	MAT	165 XXXX		Business Calculus	3.00	48.00	0.00	0.00	0.00	A	S	1	3.00
97	MGT			Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
98		XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
99	MGT		*	Project Management Basics	3.00	48.00	0.00	0.00	0.00	A		1	3.00
100		XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
101	NET	XXX		Elective	3.00	48.00	0.00	0.00	0.00	A		1	3.00
102	PHY	XXX		Elective	3.00	48.00	0.00	0.00	0.00	Α		1	3.00
103	BUS	932		Internship	1.00	0.00	0.00	0.00	64.00	A			1.00
					Term Total	16.00							

12/20	16				Print Co	omparison l	Report						21
10	04 CIS	181	*	Java III		3.00	32.00	) 32	.00 0.0	00	0.00		3.00
10	5 CIS	626	*	.NET Development III		3.00	32.00	) 32	.00 0.0	00	0.00		3.00
10	6 CSC	C 153	*	Data Structures		4.00	64.00				0.00		4.00
10	7 CIS	802	*	Software Development Capstone		3.00	32.00		.00 0.0		0.00		3.00
10	8 GE	н хх	X	General Education: Humanities		3.00	48.00				0.00	н	3.00
					r	Ferm Total			0.0	0	0.00	11	5.00
						gram Total							
					1108	Sian Iotai	02.00	•					
	AMPUS												
	pe of A	ward:		JAVA PROGRAMMING		CO	NTACT	HOUI	RS	7			
	ERT1												
TT:	SO 03 (	02 11 03			Credits	Lecture	Lab	Clinic	Work	Alt	Gen	Foot	ContHr/
				~ .							Ed	Note	CredHr
			.4.	Term 1									
1	CIS	121	*	Introduction to Programming Logic	3.00	32.00	32.00	0.00	0.00				3.00
					erm Total	3.00							
				Term 2									
2	CIS	171	*	Java Programming I	3.00	32.00	32.00	0.00	0.00	Μ			3.00
3	CSC	142	*	Computer Science	4.00	64.00	0.00	0.00	0.00	А			4.00
4	CIS	335	*	Relational Database Technologies &	3.00	32.00	32.00	0.00	0.00				3.00
				SQL									
				Т	erm Total	6.00							
				Term 3									
5	CIS	175	*	Java Programming II	3.00	32.00	32.00	0.00	0.00				3.00
					erm Total	3.00							2100
				Term 4									
6	CIS	181	*	Java III	3.00	32.00	32.00	0.00	0.00				3.00
					erm Total	3.00	22.00	0.00	0.00				5.00
					ram Total	15.00							
				B									
	MPUS									-			
	pe of A	ward:		.NET PROGRAMMING		CO	NTACT	HOUR	LS .				
	ERT2				~		~ .	~			_	_	
115	50 03 0	2 11 03			Credits	Lecture	Lab	Clinic	Work	Alt		Foot	ContHr/
				Term 1					· · · · ·	]	Ed	Note	CredHr
1	CIE	121	*		2.00	22.00	22.00	0.00	0.00				2.00
1	CIS	121		Introduction to Programming Logic	3.00	32.00	32.00	0.00	0.00				3.00
					erm Total	3.00							
~	010	225		Term 2	• • • •								
2	CIS	335	*	Relational Database Technologies &	3.00	32.00	32.00	0.00	0.00				3.00
	-			SQL									
3	CIS	622	*	.NET Development I	3.00	32.00	32.00	0.00	0.00				3.00
					erm Total	6.00							
				Term 3									
4	CIS	624	*	.NET Development II	3.00	32.00	32.00	0.00	0.00				3.00
				Te	erm Total	3.00							
				Term 4									
5	CIS	626	*	.NET Development III	3.00	32.00	32.00	0.00	0.00				3.00
				Te	erm Total	3.00							
				Progr	am Total	15.00							
~				-									
	MPUS								~	1			
	be of Av	vara:		Database Technologies		CO	NTACT	HOUR	.S				
	RT3	. 11 0.2			Curlin	T	т.1	oli i i	NV. 1	. 1.	0	Б (	
115	0 03 0	2 11 03			Credits	Lecture	Lab	Clinic	Work	AII	Gen	Foot	ContHr/
				Term 1		L					Ed	Note	CredHr
1	000	110	*		2.00	22.00	22.00	0.00	0.00				2.00
1	CSC	110	*	Introduction to Computers	3.00			0.00	0.00				3.00
2	CIS	121	*	Introduction to Programming Logic	3.00			0.00	0.00	M			3.00
3	CIS	128	*	Programming Concepts	3.00		32.00		0.00	A			3.00
4	CIS	207	*	Fundamentals of Web Programming	3.00		32.00	0.00	0.00				3.00
					rm Total	9.00							
				Term 2									
				Polational Databasa Technologias &					0.00				2.00

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CIS

BCA

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SQL

167 \* Comprehensive Databases

Relational Database Technologies &

5/12/201	6				Print	Comparis	on Repo	ort					
					Term Tota	al <b>6.00</b>							
				Term 3									
7	CIS	353	*	Database Models and Design	3.00	32.0	0 32	.00 0.0	0.0	00			3.00
				Strategies									
8	CIS	334	*	PHP/Apache/MySQL	3.00	32.0	0 32	.00 0.0	0.0	00	М		3.00
9	CIS	624	*	.NET Development II	3.00	32.0	0 32	.00 0.0	0.0	00	A		3.00
10	CIS	175	*	Java Programming II	3.00	32.0	0 32	.00 0.0	0.0	00	Α		3.00
					Term Tota	al 6.00							
					Program Tota	al <b>21.0</b>	D						
					-								
	MPUS									-			
51	e of Aw	/ard:		Mobile App Development		CC	NTAC	Г HOUI	RS				
	RT4										-	_	
ITS	O 03 02	2 11 03			Credits	Lecture	Lab	Clinic	Work	Alt		Foot	ContHr/
					l					]	Ed	Note	CredHr
				Term 1									
1	CIS	121	*	Introduction to Programming Logic	3.00	32.00	32.00	0.00	0.00				3.00
				Logic	Term Total	3.00							
				Term 2	Term Totai	5.00							
2	CIC	171	*		2.00	22.00	22.00	0.00	0.00				2.00
2	CIS	171		Java Programming I	3.00	32.00	32.00		0.00	M			3.00
3	CSC	142	*	Computer Science	4.00	64.00	0.00	0.00	0.00	А			4.00
4	MDT	240	*	Objective-C Development	3.00	32.00	32.00	0.00	0.00				3.00
					Term Total	6.00							

Term Total 6.00 Term 3 5 MDT 340 \* IOS App Development 3.00 32.00 32.00 0.00 0.00 MDT 350 32.00 32.00 0.00 0.00 6 \* Android App Development 3.00 Term Total 6.00 Program Total 15.00

#### Footnotes

1: Select any 3-credit course with the given 3-letter prefix from our list of Approved Elective Courses in these categories. Be advised that taking a course plus its prerequisite will increase your program credit total.

3.00

3.00

SUMMARY AAS Contact Hours Work Exp 0.00 Cr H Clinical Term Lecture Lab 15.00 192.00 96.00 0.00 Term 1 Term 2 15.00 192.00 96.00 0.00 0.00Term 3 3.00 48.00 0.00 0.00 0.00 16.00 192.00 128.00 0.00 0.00 Term 4 Term 5 16.00 208.00 96.00 0.00 0.00 CERT1 Contact Hours Cr H Work Exp Term Lecture Clinical Lab 32.00 3.00 32.00 0.000.00 Term 1 Term 2 6.00 64.00 64.00 0.00 0.00 3.00 32.00 32.00 0.00 0.00 Term 3 Term 4 3.00 32.00 32.00 0.00 0.00 Contact Hours CERT2 Cr H Clinical Term Lecture Lab Work Exp 32.00 3.00 32.00 0.00 0.00 Term 1 Term 2 6.00 64.00 64.00 0.00 0.00 Term 3 3.00 32.00 32.00 0.00 0.00 3.00 32.00 32.00 0.00 0.00 Term 4 CERT3 Contact Hours Cr H Term Lecture Lab Clinical Work Exp 9.00 96.00 96.00 0.00 0.00 Term 1 64.00 0.00 Term 2 6.00 64.00 0.00 Term 3 6.00 64.00 64.00 0.00 0.00 CERT4 Contact Hours Cr H Clinical Work Exp Term Lecture Lab 3.00 32.00 Term 1 32.00 0.000.00 Term 2 6.00 64.00 64.00 0.00 0.00

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5/1	2/20	16

Award	Cr. H	Weeks	Avg Per	Gen Ed	Gen Ed	% Tech
Туре			Term	Cr. H	Categ.	Core
AAS	65.00	76.00	13.00	20.00	3.00	72.31%
CERT1	15.00	24.40	3.75	0.00	0.00	100.00%
CERT2	15.00	49.06	3.75	0.00	0.00	100.00%
CERT3	21.00	48.00	7.00	0.00	0.00	100.00%
CERT4	15.00	48.00	5.00	0.00	0.00	100.00%

prepare graduates from the program for potential to transfer and to be academically prepared to take Computer Science transfer courses through the Math/Science Department. The advisory committee also agreed to this change. Update to the Database Certificate removing CIS-348 as the courses in the Java track have been updated to incorporate this curriculum. The program is adding an additional approved elective in video game programming and a new programming language, Swift. This workforce solution is funded by the IHUM Consortium which is 100% financed through a \$15,000,000 grant from the U.S. Department of Labor's Employment & Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This work is licensed under the Creative Commons Attribution 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by/4.0/.

