Curriculum Outline
2016-2017

AAS - Computer Systems
Database Development Track **CIP 11.0101**

FIRST YEAR

First Semester			Lec	Lab	Ext	Cont	Credit
COSC	1315	Fundamentals of Programming [1]	2	2	0	64	3
ECON	*1301*	*Introduction to Economics* [2]	3	0	0	48	3
~~*ENGL*~~	~~*1301*~~	~~*Composition I*~~					
~~ITSE~~	~~1311~~	~~Beginning Web Programming~~					
~~ITSE~~	~~1332~~	~~Introduction to Visual Basic.NET Programming~~					
ITSW	1304	Introduction to Spreadsheets-Excel	2	2	0	64	3
ITSW	1307	Introduction to Database - Access	2	2	0	64	3
MATH	*1324*	*Mathematics for Business and Social Sciences* [3]	3	1	0	64	3
~~*MATH*~~	~~*1314*~~	~~*College Algebra*~~ [3]					
		Totals	12	7	0	304	15

Second Semester			Lec	Lab	Ext	Cont	Credit
COSC	1337	Programming Fundamentals II (Java) [4]	3	0	0	48	3
ENGL	*1301*	*Composition I*	3	1	0	64	3
~~ENGL~~	~~2311~~	~~Technical and Business Writing~~					
ITNW	1358	Network+	3	2	0	80	3
~~ITSE~~	~~1330~~	~~Introduction to C# Programming~~					
~~ITSE~~	~~1356~~	~~Extensible Markup Language (XML)~~					
ITSE	2309	Database Programming – SQL	3	1	0	64	3
~~ITSW~~	~~1304~~	~~Introduction to Spreadsheets-Excel~~					
MATH	1342	Elementary Statistical Methods	3	1	0	64	3
		Totals	15	5	0	320	15

SECOND YEAR

First Semester			Lec	Lab	Ext	Cont	Credit
~~*ECON*~~	~~*1301*~~	~~*Introduction to Economics*~~ [2]					
ENGL	2311	Technical and Business Writing	3	0	0	48	3
~~*HUMA*~~	~~*1301*~~	~~*Introduction to Humanities I 4*~~					
~~ITNW~~	~~1358~~	~~Network+~~					
ITSE	1311	Beginning Web Programming	2	2	0	64	3
~~*ITSE*~~	~~*2338*~~	~~*C# Database Development with ADO.NET and LINQ*~~					
ITSE	2370	Descriptive Analytics	3	1	0	64	3
ITSW	2370	SAS Programming	3	1	0	64	3
GEN ED	*Speech General Education Course* [5]		3	0	0	48	3
		Totals	14	4	0	288	15

Second Semester			Lec	Lab	Ext	Cont	Credit
~~BMGT~~	~~1307~~	~~Team Building~~ [3]					
~~IMED~~	~~1341~~	~~Interface Design~~ [4]					
~~IMED~~	~~2309~~	~~Internet Commerce~~					
~~INEW~~	~~2330~~	~~Comprehensive Software Project: Planning and Design (Capstone)~~ [5]					
ITSC	2380	Cooperative Education - Computer and Information Sciences, General (Capstone) [7]	1	0	20	336	3
~~ITSE~~	~~1393~~	~~Special Topics in Computer Systems Analysis~~					
ITSE	2347	Advanced Database Programming	3	1	0	64	3
ITSE	2354	Advanced Oracle PL/SQL	3	1	0	64	3
ITSY	1300	Fundamentals of Information Security (Security+)	3	2	0	80	3
GEN ED	*Humanities / Fine Arts General Education Course* [6]		3	0	0	48	3
		Totals	13	4	20	592	15
		GRAND TOTAL				***1504***	***60***

[1] May substitute COSC1436

[2] May substitute ANTH 2302, ANTH 2346, ANTH 2351, ECON 2301, ECON 2302, GOVT 2305, GOVT 2306, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, SOCI 1301, or SOCI 1306

[3] May substitute MATH 1314, MATH 1316, MATH 1325, MATH 1332, MATH 1350, MATH 1351, MATH 1414, MATH 2305, MATH 2318, MATH 2320, MATH 2412, MATH 2413, MATH 2414, or MATH 2415

[4] May substitute COSC 1437 or ITSE 2317

[5] Select one of the following: SPCH 1311, SPCH 1315 or SPCH 1321

[6] Select one of the following: ARTS 1301, ARTS 1303, ARTS 1304, ARTS 1313, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, DRAM 2366, DRAM 2367, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, HIST 2311, HIST 2312, HIST 2321, HIST 2322, HUMA 1301, MUSI 1306, MUSI 1307, MUSI 1310, PHIL 1301, PHIL 1304, PHIL 2303, PHIL 2306, PHIL 2307, or PHIL 2321

[7] May substitute INEW 2330

~~[5] May substitute ITSC 2380~~

~~[3] BMGT 1341 or BMGT 1344~~

~~[4] May substitute IMED 2345, ITSE 1306, ITSE 1371, ITSE 1392, or ITSE 2302~~