

Wright State University

College of Engineering and Computer Science

Department of Computer Science & Engineering

Bachelor of Arts

COMPUTER SCIENCE with Cyber Security Analytics Certificate

Name & UID

Term One, Fall	Credit Hours	Pre-Requisites	Term Two, Spring	Credit Hours	Pre-Requisites
CS1180 Comp Sci I*	4	MTH1280 or Level 40	CS1181 Comp Sci II*	4	(CS1180 or CS1161) & (MTH1280 or Level 40)
ENG1100 Academic Writing & Reading*	3		General Elective	2	
MTH2570 Discrete Mth for Comp or CS2200 Discrete Struct & Algorithms*	4	For MTH2570 - MTH1280 or Level 40 For CS2200 - CS1200	EGR1900 Intro to Co-Op and Internship	1	Recommended
CS1030 Survey of CS & CEG	1		CEG2350 OS Concepts & Usage	4	CS1180 or CS1160 or CEG2170
CS1000 Tech & Society	3	WSU Core Global Traditions	WSU Core	3	
Total Hours	15		Total Hours	14	
Term Three, Fall	Credit Hours	Pre-Requisites	Term Four, Spring	Credit Hours	Pre-Requisites
CEG3310 Comp Org*	4	CS1181*	CS3100 Data Struct & Algorithms*	3	CS1181 & CEG3310 & CEG2350 & (MTH2570 or CS2200*)
Natural Science	4	See list on back (CS1150 recommended)	Natural Science	4	See list on back
MTH2240 Applied Calc or MTH2280 Bus Calc	4	MTH1280 or MTH1350 or Level 40	CS2800 Web Design Fundamentals	3	CS1180 or CS1160 or CEG2170
CEG2400 Intro to PC Networking	3	CS1180 or CS1160 or CEG2170 or CS1150	CS3700 Intro to Oracle or SQL Databases	3	CS1180 or CS1160 or CEG2170
			WSU Core	3	
Total Hours	15		Total Hours	16	
Term Five, Fall	Credit Hours	Pre-Requisites	Term Six, Spring	Credit Hours	Pre-Requisites
CS or CEG Tech Elective 2000/3000 level (6 crdt hrs)	3		CEG3120 Intro to the Design Tech Sys	3	CS1180 or CS1161
CEG4110 Intro to Software Engineering	3	CS3100*	WSU Core (6 crdt hrs)	3/3	
STT1600 Stat Concepts	4	DEV0970 or Level 30	CS or CEG Tech Elective 2000/3000 level	3	
EGR3350 Tech Comm Eng/Sci or ENG 2140	3	ENG1100	CEG 4350 OS Internals & Design	3	CS3100
CEG 3400 Intro to Cyber Security	3	CS1181*			
Total Hours	16		Total Hours	15	
Term Seven, Fall	Credit Hours	Pre-Requisites	Term Eight, Spring	Credit Hours	Pre-Requisites
General Elective	3		CEG 4424 Attacks & Defenses	3	
WSU Core	3		General Elective (8 crdt hrs total)	3 3 2	
CS or CEG Tech Elective 4000 level (9 crdt hrs total)	3		Cyber Security Tech Elective Choose 1:CEG4410, 4420, OR 4422	3	Varies based on class chosen
General Elective	3				
CEG 4430 Network Security	3	CS3100*			
Total Hours	15		Total Hours	14	

*Minimum grade of C required

Revised Summer 2016

Program Total Hours: 120

Wright State Core

Element III. Global Traditions (6 hours)

One Global Traditions: AFS2000, ATH2500, CS1000, CST2210, 2310, 2320, 2410, 2420, 2430, 2510, EC2100, 2500, 2900, RST2610, 2620, 2710, 2810, 2910, 2920, URS2000

One History: CLS1500, HST1100, 1200

Element IV. Arts or Humanities (3 hours)

One Course: ART2140, CLS2040, CST2310, 2420, ENG2040, 2050, MP1310, MUS1210, 2140, 2900, PHL2040, REL2040, UH2010

Element V. Social Science (6 hours)

Two Courses from Different Disciplines: ATH2200, EC2100, 2040, 2050, 2500, 2900, PLS2000, PSY1010, SOC2000, UH2020, WMS2000

Element VI. Natural Science (8 hours)

Select two of the following laboratory science courses: ATH2100, BIO1050, 1060, 1070, 1120, 1150, CHM1020, 1050, 1060, 1070, 1210 & 1210L, 1220 & 1220L, **CS1150**, EES1030, 1050, 1070, 2510, 2550, KNH2500, PHY1050 & 1050L, 1060 & 1060L, 2400 & 2400L, 2410 & 2410L SM1010

Additional Core Courses (7 hours)

STT1600 Statistical Concepts, must select one additional course from Areas 1-6. *Additional courses* in MTH, STT, CHM, BIO, PHY, or EES appropriate for Computer Science or Engineering majors

A minimum of two courses must be designated as MC and IW.

Consult DARS for complete and updated course listing

Computer Science or Computer Engineering Tech Electives: (24 hours)

Upper Level (15 hours) - 4000 level courses from CS or CEG

Notes:

- 1 Technical Electives: Some technical electives require additional pre-requisites please check specific course descriptions.
- 2 MTH2570 is the entry level math course for the BA degree program. Pre-requisite math courses may be necessary for students with math skills below this level.
- 3 General Elective courses may be any course taken for credit and for a grade. KNH courses are excluded