WRIGHT STATE UNIVERSITY — COMPUTER SCIENCE AND ENGINEERING

Bachelor of Science Computer Science
with Cyber Security Analytics Certificate
Graduation Planning Strategy

Name & UID: _____

Total Program Hours: 120

* Minimum grade of C required.

Year One — 31 Total Credit Hours (Fall 15, Spring 16)

	Course	Sem.	Grade		Prerequisites
FALL	CS1030 Survey of CS & CEG			1	None (General Elective) Freshman Status Only
	CS 1180*/1180L Computer Science I			**4**	**MTH 1280 or MPL 40**
	ENG 1100* Academic Writing & Reading			**3**	
	CS 2200*/2200R Discrete Struct & Algorithms or			**4**	**CS1200 or (MTH 1280 or MPL40)**
	MTH 2570* Discrete Mth for Comp			**4**	**MTH 1280 or MPL 40**
	WSU Core Course			3	Suggested Element Global Traditions History
SPRING	EGR 1900 Exploring Engineering Internships			1	None (Recommended General Elective)
	CS 1181*/1181L Computer Science II			**4**	**CS 1180 and (MTH 1280 or MPL 40)**
	MTH 2300 Calculus I			4	MPL 50 or MTH 1350
	CEG 2350/2350L Operating System Concepts and Usage			4	CS 1160 or CS 1180 or CEG 2170
	CS 1000 Tech & Society (WSU Core Global Traditions)			3	None

Make Full Major Admission Appointment with your advisor after successfully completing ENG1100, CS1180, CS1181, and MTH2570 or CS2200 with a 2.25 GPA and 24 or more semester hours. Must be a full major to take the following courses ERG 3350, CS 2210, CS 3200, or any 4000 level technical electives.

Year Two — 31 Total Credit Hours (Fall 15, Spring 16)

	Course	Sem.	Grade		Prerequisites
FALL	CEG 3310/3310L* Computer Organization			4	CS 1181 or (CEG2170 and(CEG 3320 or EE2000))
	Natural Science			4	See list on back
	MTH 2310 Calculus II			4	MTH 2300
	CEG 3400 Introduction to Cyber Security			**3**	**CS 1160* or CS 1180* or CS 2170***
SPRING	CS 3100* Data Structures & Algorithms			3	CS1181 and CEG3310 and (MTH2570 or CS2200)
	Natural Science			4	See list on back
	ENG 2140 Research, Tech Wrting & Presentation for Sci & Eng or			3	ENG 1100 or ENG 1110 or ENG 1130 or ENG 1140
	EGR 3350 Technical Comm for Engineers and Comp Sci			3	ENG 1100
	WSU Core Course			3	Suggested Element Arts or Humanities
	MTH 2530 Elementary Linear Algebra			3	MTH 2300

Year Three — 31 Total Credit Hours (Fall 16, Spring 16)

	Course	Sem.	Grade		Prerequisites
FALL	WSU Core Course			4	suggested element Science
	CS 3200 Theoretical Foundations of Computing or			3	CS 3100*
	CS 2210 Logic for Computer Scientists			3	MTH 2570 or CS 2200
	General Elective			3	
	ISE 2211 Statistics for Engineers or			3	EGR 1010 or MTH 2300
	STT 3600 Applied Statistics I			3	MTH 2310
	CEG 4350 Operating System Internals and Design			3	CS 3100* and CEG 3310*
SPRING	CEG 4110 Indroduction to Software Engineering			3	CS3100*
	WSU Core Course			3	suggested element Social Science
	General Elective			3	
	CS/CEG 3000 level Tech Elective			3	
	CEG 4424 Security Attacks and Defenses			**3**	**CEG 4350**

Make a Senior Check appointment with the department for permission to register for CEG4980 Team Projects I. Apply for Graduation

Year Four — 27 Total Credit Hours (Fall 12, Spring 15)

	Course	Sem.	Grade		Prerequisites
FALL	CS3180 Comparative Languages			3	CS 3100*
	CEG4980 Team Projects I			3	CS 3100 **and** (EGR 3350 **or** ENG 2140) **Department Permission**
	CEG 4430 Cyber Network Security			**3**	**CS 3100***
	CS/CEG 4000 level Tech Elective			3	
SPRING	CEG 4981 Team Projects II			3	CEG 4980
	CS/CEG 4000 level Tech Elective			**3**	**Cyber Security Analytics Elective - See list below**
	CS/CEG 4000 level Tech Elective			3	
	General Elective			3	
	WSU Core Course			3	suggested element Social Science

Consult uAchieve for complete and updated course listings

Wright State Core

Element III

Global Traditions (6 credit hours)
One History: CLS1500, HST1100, 1200
and CS1000(IW)

Element IV

Arts or Humanities (3 credit hours)
One Course: ART2140, CLS1600, 2040(IW), ENG2040(IW), 2050(IW,MC), 2310(IW,MC), ML2020(MC), 2040(MC),2050(MC) MP1310, MUS1210, 2140, 2420(IW,MC), 2900(IW,MC), PHL2040(IW), 2050(IW), 2100, REL2040(IW), TH2140, UH2010(IW)

Element V

Social Science (6 credit hours)
Two Courses from Different Disciplines: ATH2200, EC2000(IW), 2040, 2050, 2500(IW,MC), 2900(IW,MC), FIN2050, PLS2000(MC after F15,IW), 2120(MC),PSY1010(IW), SOC2000(IW, MC after SU15), SW2720(IW,MC), UH2020(IW), WGS2000(IW,MC)

Element VI

Natural Science (8 credit hours)
BIO1120, 1150, CHM1210 & 1210L, 1220 & 1220L, EES2510. EES2550, PHY 2400 & 2400L, 2410 & 2410L

Additional Core Courses (7 credit hours)
MTH 2310 Calculus II and one additional course from Element VI CHM1210/1210L, 1220/1220L, BIO1120, 1150, EES2510, 2550, PHY2400/2400L, 2410/2410L

A minimum of two core courses in the major must be designated as MC and IW.

Computer Science or Computer Engineering Tech Electives (21 credit hours) 6 credit hours of 3000 level and
15 credit hours of 4000 level classes from CS or CEG

General Electives (10 credit hours) Including CS 1030 and EGR 1900

Cyber Security Analytics Electives

Choose one course: CEG 4410, 4420, 4422, 4750, 4426, 4324, 4440. This list is subject to change for most up to date information go to wright.edu/cse and see the Undergraduate Cyber Security Analytics certificate.

Notes

Technical Electives: Some technical electives require additional pre-requisites please check specific course descriptions.

General Elective courses may be any course taken for credit. **KNH courses are excluded**