CSA+, CAE₂Y, & Apprenticeships







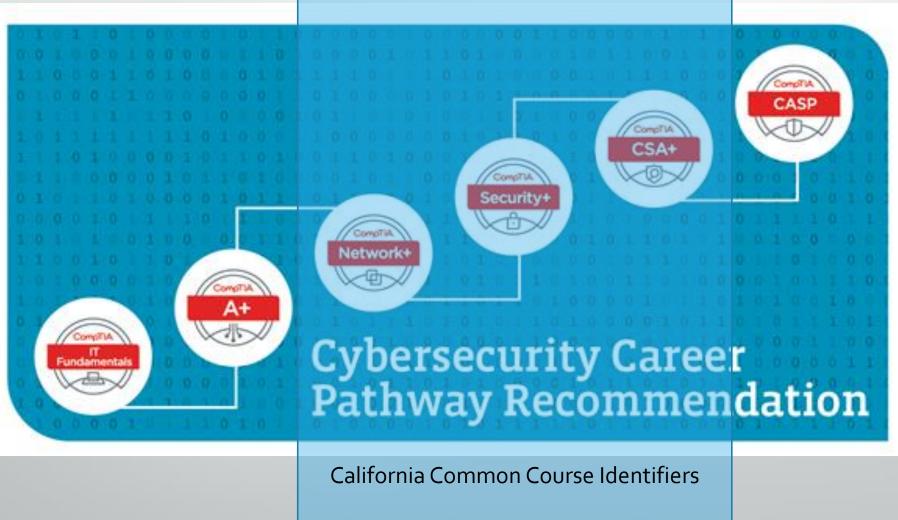




Professor Steve Linthicum, JD, CISSP, VCP, MCSE Deputy Sector Navigator, ICT/DM Doing What Matters for Jobs and the Economy

Why All Three are Connected

Coastline Apprenticeship Program



CAE₂Y

California Common Course Identifiers www.c-id.net

A+

Security+

Course Portability **Between Community** Network+ Colleges Server+ Potential Uniformity –

Associate Transfer Degrees (ATD)

	Model Curriculum Work	sheet – Accepted b	y ICFW 3-31-15
C	CCC Major or Area of Emphasis: Inform	ation Technology	
0	CSU Major or Majors:Inform	ation and Communic	ation Technologies,
	Inform	ation Systems, Inform	mation Technology
	Fotal units <u>22-23</u> (all units are se	emester units)	
C	Degree Type (indicate one): AA-T_	OR AS-T	OR MC X
F	Required Core Courses:		
	<u>13</u> units		
	Title (units)	C-ID Designation	Rationale
	nformation & Communication	ITIS 110	Essential Preparation
	Technology Essentials (4)		
	Business Information Systems,	ITIS 120	Essential Preparation
	Computer Information Systems (3) ntroduction to Programming Concepts	ITIS 130 or COMP	Essential Preparation
	and Methodologies (3)	112	Essenual Freparation
	Computer Network Fundamentals (3)	ITIS 150	Essential Preparation
_	Anter a second sec	the fellowing	
_	Select <u>6</u> units or <u>2</u> courses from	the following:	
5	Select <u>6</u> units or <u>2</u> courses from ntroduction to Systems Analysis and Design (3)	the following: ITIS 140	Important Preparation
9 	ntroduction to Systems Analysis and	•	Important Preparation Important Preparation
	ntroduction to Systems Analysis and Design (3) Routing and Switching Essentials (3) Systems and Network Administration (3)	ITIS 140 ITIS 151 ITIS 155	
	ntroduction to Systems Analysis and Design (3) Routing and Switching Essentials (3) Systems and Network Administration (3) Introduction to Information Systems	ITIS 140	Important Preparation
	ntroduction to Systems Analysis and Design (3) Routing and Switching Essentials (3) Systems and Network Administration (3) Introduction to Information Systems Security (3)	ITIS 140 ITIS 151 ITIS 155 ITIS 160	Important Preparation Important Preparation Important Preparation
	ntroduction to Systems Analysis and Design (3) Routing and Switching Essentials (3) Systems and Network Administration (3) Introduction to Information Systems Security (3) Introduction to Cybersecurity: Ethical	ITIS 140 ITIS 151 ITIS 155	Important Preparation Important Preparation
	ntroduction to Systems Analysis and Design (3) Routing and Switching Essentials (3) Systems and Network Administration (3) introduction to Information Systems Security (3) Introduction to Cybersecurity: Ethical Hacking (3)	ITIS 140 ITIS 151 ITIS 155 ITIS 160 ITIS 164	Important Preparation Important Preparation Important Preparation Important Preparation
	ntroduction to Systems Analysis and Design (3) Routing and Switching Essentials (3) Systems and Network Administration (3) introduction to Information Systems Security (3) introduction to Cybersecurity: Ethical Hacking (3) Digital Forensics Fundamentals (3)	ITIS 140 ITIS 151 ITIS 155 ITIS 160 ITIS 164 ITIS 165	Important Preparation Important Preparation Important Preparation Important Preparation Important Preparation
	ntroduction to Systems Analysis and Design (3) Routing and Switching Essentials (3) Systems and Network Administration (3) introduction to Information Systems Security (3) Introduction to Cybersecurity: Ethical Hacking (3)	ITIS 140 ITIS 151 ITIS 155 ITIS 160 ITIS 164	Important Preparation Important Preparation Important Preparation Important Preparation

Introduction to Statistics (3)		Also fulfills CSU GE Area B4
Finite Mathematics (3)	MATH 130	Also fulfills CSU GE Area B4
Business Calculus (3)	MATH 140	Also fulfills CSU GE Area B4
Single Variable Calculus I Early	MATH 210	Also fulfills CSU GE Area B4
Transcendentals (4)		

Center of Academic Excellence–2 Year DHS/NSA CAE2Y Designation

Scripting

Network+

Server+

- Institutional
 Designation
- Instruction Aligned with Knowledge Units
- Program Qualifications

Security+

Model Curriculum Work	ksheet – Accepted b	y ICFW 3-31-15
CCC Major or Area of Emphasis: Inform	nation Technology	
CSU Major or Majors:Inform	nation and Communic	ation Technologies,
Inform	nation Systems, Inform	nation Technology
	emester units)	
	emeater unitaj	
Degree Type (indicate one): AA-T_	OR AS-T	OR MC X
Required Core Courses:		
13 units		
	C ID Decimation	Rationale
Title (units) Information & Communication	C-ID Designation ITIS 110	Essential Preparation
Technology Essentials (4)	1113 110	Essenual Preparation
Business Information Systems,	ITIS 120	Essential Preparation
Computer Information Systems (3)		
Introduction to Programming Concepts	ITIS 130 or COMP	Essential Preparation
and Methodologies (3)	112	
Computer Network Fundamentals (3)	ITIS 150	Essential Preparation
Select <u>6</u> units or <u>2</u> courses from	n the following:	
Introduction to Systems Analysis and Design (3)	ITIS 140	Important Preparation
Routing and Switching Essentials (3)	ITIS 151	Important Preparation
Systems and Network Administration (3)	ITIS 155	Important Preparation
Systems and Network Administration (3) Introduction to Information Systems Security (3)	ITIS 155 ITIS 160	Important Preparation Important Preparation
Systems and Network Administration (3) Introduction to Information Systems Security (3) Introduction to Cybersecurity: Ethical		
Systems and Network Administration (3) Introduction to Information Systems Security (3)	ITIS 160	Important Preparation
Systems and Network Administration (3) Introduction to Information Systems Security (3) Introduction to Cybersecurity: Ethical Hacking (3) Digital Forensics Fundamentals (3) Introduction to Database Management	ITIS 160 ITIS 164	Important Preparation
Systems and Network Administration (3) Introduction to Information Systems Security (3) Introduction to Cybersecurity: Ethical Hacking (3) Digital Forensics Fundamentals (3)	ITIS 160 ITIS 164 ITIS 165	Important Preparation Important Preparation Important Preparation

		-
Introduction to Statistics (3)	MATH 110	Also fulfills CSU GE Area B4
Finite Mathematics (3)		Also fulfills CSU GE Area B4
Business Calculus (3)		Also fulfills CSU GE Area B4
Single Variable Calculus I Early	MATH 210	Also fulfills CSU GE Area B4
Transcendentals (4)		

Coastline Cybersecurity			
Apprenticeship Pro	gram		
• \$1,000,000 Grant Funded by CCCCO		ation Technology ation and Communic ation Systems, Infor emester units)	cation Technologies,
 Program Registered Network+ with DAS Server+ 	Information & Communication Technology Essentials (4) Business Information Systems, Computer Information Systems (3) Introduction to Programming Concepts and Methodologies (3)	C-ID Designation ITIS 110 ITIS 120 ITIS 130 or COMP 112	Rationale Essential Preparation Essential Preparation Essential Preparation
 2000+ Hours of "Earn & Learn 	Select <u>6</u> units or <u>2</u> courses from Introduction to Systems Analysis and Design (3) Routing and Switching Essentials (3) Systems and Network Administration (3) Introduction to Information Systems Security (3)	ITIS 150 the following: ITIS 140 ITIS 151 ITIS 155 ITIS 160 ITIS 164	Essential Preparation Important Preparation Important Preparation Important Preparation Important Preparation
• Seven (7) Academic Security+ Courses	Digital Forensics Fundamentals (3) Introduction to Database Management Systems (3) Business Communication (3) Select <u>3-4</u> units or <u>1</u> course from Introduction to Statistics (3)	MATH 110 Also fu MATH 130 Also fu MATH 140 Also fu	Important Preparation Important Preparation Important Preparation ulfills CSU GE Area B4 ulfills CSU GE Area B4 ulfills CSU GE Area B4 ulfills CSU <u>GE Area B4</u>

What About CSA+?

Network+

Server+

Security

- Seventh (7) Academic Course
- Planned Addition to Model Curriculum (Fall 2017)
- Capstone Course for CCAP

	Model Curriculum Worksheet – Accepted by ICFW 3-31-15		
	CCC Major or Area of Emphasis: Inform	ation Technology	
	CSU Major or Majors: Inform	ation and Communica	ation Technologies,
	Inform	ation Systems, Inform	vation Technology
			and rearing and
	Total units <u>22-23</u> (all units are se	emester units)	
Scripting	Degree Type (indicate one): AA-T_	OR AS-T	OR MC X
×	Required Core Courses:		
\mathbf{X}	13 units		
work+	Title (units)	C-ID Designation	Rationale
WORK	Information & Communication	ITIS 110	Essential Preparation
	Technology Essentials (4)		Essentiar reparation
	Business Information Systems,	ITIS 120	Essential Preparation
\sim	Computer Information Systems (3)		
/er+ 📃 🎽	Introduction to Programming Concepts	ITIS 130 or COMP	Essential Preparation
- X X	and Methodologies (3)	112	
	Computer Network Fundamentals (3)	ITIS 150	Essential Preparation
	Select 6 units or 2 courses from	the following:	
	Introduction to Systems Analysis and Design (3)	ITIS 140	Important Preparation
	Routing and Switching Essentials (3)	ITIS 151	Important Preparation
_	Systems and Network Administration (3)	ITIS 155	Important Preparation
	Introduction to Information Systems Security (3)	ITIS 160	Important Preparation
	Introduction to Cybersecurity: Ethical Hacking (3)	ITIS 164	important Preparation
	Digital Forensics Fundamentals (3)	ITIS 165	Important Preparation
	Introduction to Database Management	ITIS 180	Important Preparation
ecurity+	Systems (3)	0000.445	
	Business Communication (3)	BUS 115	Important Preparation
	Select <u>3 - 4</u> units or <u>1</u> course from		
	Introduction to Statistics (3)	MATH 110 Also ful	fills CSU GE Area B4

		-
Introduction to Statistics (3)	MATH 110	Also fulfills CSU GE Area B4
Finite Mathematics (3)	MATH 130	Also fulfills CSU GE Area B4
Business Calculus (3)		Also fulfills CSU GE Area B4
Single Variable Calculus I Early	MATH 210	Also fulfills CSU GE Area B4
Transcendentals (4)		

CSA+ Resources

— CSA+→ Syllabus

Home	CompTIA Cybersecurity Analyst (CSA+)
Announcements	Jump to Today 💊 Edit
Assignments	
Discussions	This is a "train-the-trainer" style course, designed to provide faculty with lots of resources so they will be able to utilize these to both create a new course and teach that
Grades	course once it has gone through the curriculum process at their college.
People	The 4.5 day format for the course is designed to cover the materials in a rapid format, with coverage centering upon the content of CompTIA's " <u>exam objectives</u> a" for their CSO-001 certification exam. Those successfully passing the exam are designated by CompTIA as holding their CSA+ certification (Cybersecurity Analyst).
Pages	The CS0-001 exam went live on February 15, 2017. There is very little information on the certification forums relating to the Exam (e.g. TechExam @). As referenced in one of
Files	the postings, I have created two blog comments that relate specifically to my study efforts before taking the CSO-001 exam and my thoughts after taking it. They are available
Syllabus	at:
Outcomes	Time to Tackle CompTIA's CSA+ Certification (CS0-001) Steve's Certification Site a
Quizzes	Success on CS0-001 CompTIA Cybersecurity Analyst (CSA+) Exam Steve's Certification Site #
Modules	For purpose of this class we are utilizing the GTS Learning book. You are being provided an electronic copy of the book. I honestly recommend the book. I'm a little hesitant to
Conferences	recommend the labs, primarily because of the lab interface that I found to be challenging, particularly when using my laptop with its small monitor. Our hope is the course will gain enough traction so that a series of NetLab+ labs will be available that highlight key tools that are identified in Section 4.5 (<i>Compare and contrast the general purpose</i>
Collaborations	and reasons for using various cybersecurity tools and technologies) of the Exam Objectives. A list that I prepared of those tools can be accessed by clicking HERE @ .
Attendance	l also prepared a list of videos related to these tools. That list is available by clicking HERE 🖉 . All of the resources I prepared are available for your use and you can share them
Settings	with your colleagues and students.
-	We are fortunate in providing a variety of other resources that will prove beneficial to you as you prepare for both the CS0-001 exam and teaching your version of the "Principles of Cybersecurity Analysis" course. I managed to get Sierra College's curriculum committee to approve the course in April. The course documentation is identified below and is available for your use:

http://bit.ly/CSAplus

Questions

