

## Cyber Defense Program of Study offered by Colorado State University-Pueblo

In addition to earning a Bachelor of Science (BS-CIS) degree in Computer Information Systems (CIS), there are several Cyber Security / Cyber Defense "paths" or programs offered at Colorado State University-Pueblo. **However, only the FIRST of these paths below is officially being mapped to the current NSA-CAE-CDE Criteria for Measurement as outlined below.**

1. CSU-P students may select to pursue the ***Cyber Defense Program of Study*** with the related ***Computer Security Certificate*** program (after required lower and upper division General Business and CIS courses are completed). ***(This is the only Cyber-Defense program / path being mapped to the NSA-CAE-CDE Criteria for Measurement and the CAE Application)***

***(Supplementary Path Information Section- For informational purposes only. These next two (2) Program/Paths are NOT being mapped to the current CAE application)***

2. CSU-P students may select Computer Security as a ***Minor*** with an ***"emphasis"*** on Computer Security (14 credits of the CIS Minor Core plus three Cyber Security courses (CIS 360, CIS 461, CIS 462) offered within the Hasan School of Business.
3. CSU-P students may choose to pursue the Bachelor of Arts (BA) in Political Science with a choice of a ***Minor*** or a ***Certificate*** in ***Homeland Security Studies*** (HSS) offered by the Center for Homeland Security Studies program within the College of Humanities and Social Sciences (*CHASS*).

### **1. CD Program Program of Study offered by Colorado State University-Pueblo (CSU-P)**

Students wishing to pursue the ***CD Program of Study*** and the ***Computer Security Certificate*** must complete the following courses. *(See PDF of Computer Info Systems Dept. CSU-P catalog pages 209 to 212)*

#### ***General School of Business Ed Courses that satisfy Mandatory and Optional KUs***

- BusAdmin 265- Inferential Statistics & Problem Solving .....3
- BusAdmin 265- Advanced Statistics .....3

***(These courses are part of the Cyber Defense Path mapped to the Mandatory and Optional KUs)***

#### ***CIS Core Course (Prerequisite Course Required for all CIS Majors)***

- CIS 171-Intro to JAVA Programming .....4
- CIS 185-PC Architecture .....3
- CIS 271-Advanced Progrm'g Design in JAVA.....4
- CIS 289-Network Concepts.....3
- CIS 315 –Unix/Linux Operating Systems.....3
- CIS 350-DataBase Systems.....3

What courses are required that satisfy the CAE Requirements for all Mandatory KU Requirements and at least five Operational KU requirements?

**Required CIS Courses for Cyber Defense Program of Study & Computer Security Certificate**

BusAdmin 265- Inferential Stats & Prob Solving ..	3
BusAdmin 265- Advanced Statistics .....	3
CIS 171-Intro to JAVA Programming .....	4
CIS 271-Advanced Progrm'g Design in JAVA.....	4
CIS 289 Network Concepts .....	3
CIS 315 Unix Operating Systems .....	3
CIS 350- Database Systems.....	3
CIS 359- Advanced Programming with C#.....	3
CIS 360- Information Security.....	3
CIS 461 IT Security Management .....	3
CIS 401 Network Systems Administration	
Or	
CIS 402 Linux Networks and Routing.....	3

**Which Department(s) would Oversee the CSU-P CD Program?**

The Computer Information Systems (CIS) department has, for the past eight (8) years, overseen the Cyber Security/Cyber Defense program and will continue with this responsibility as outlined in our Colorado State University-Pueblo (CSU-P) course catalog (See Attached PDF of CSU-P course catalog (Pages 210-212)).

The Computer Information Systems (CIS) department within the Hasan School of Business will be the location of our Center for Cyber Security Education and Research (CCSER)

**Supplementary Path Information Section**

***(These paths are NOT being mapped to the NSA-CAE-CDE Criteria for Measurement and the CAE Application)***

**2. CSU-P, Hasan School of Business-Minor in CIS with “Emphasis” on Computer Security**

CSU-P students may select Computer Security as a **Minor** with an **“emphasis”** on Computer Security (14 credits of the CIS Minor Core plus three Cyber Security courses (CIS 360, CIS 461, CIS 462). However these students will not qualify for the **Computer Security Certificate** unless they complete the 21 credits required under the Computer Security Certificate program (in addition to the CIS Major Core Courses). **Note: This path will not be mapped in our current CAE-CDE application.**

**Computer Security Minor with Emphasis on Computer Security**

<b>CIS Courses Titles Credits</b>	
CIS Minor Core .....	14
CIS 360 IT Security .....	3
CIS 461 IT Security Management.....	3
CIS 462 Computer Forensics .....	3

TOTAL 23

**3. College of Humanities and Social Sciences (CHASS) Homeland Security Studies**

The College of Humanities and Social Sciences (CHASS) and the Political Science Program which administers the Center for the Study of Homeland Security, offer both a **Minor** and **Certificate** in *Homeland Security Studies*. This certificate is for degree-seeking students as well as law enforcement, emergency response personnel, and military. The program’s core courses match curriculum guidelines established by the Department of Homeland Security. (See the *Homeland Security Studies Programs PDF*).

**(Note: This path will not be mapped in our current CAE-CDE application.)**

***Required Courses for Minor in Homeland Security***

POLSC Courses	Titles	Credits
POLSC 270	Introduction to Homeland Security .....	3
POLSC 271	Terrorism .....	3
POLSC 272	Critical Incident Management .....	3
POLSC 373	Intelligence and National Security .....	3
POLSC 374	Homeland Security and the Law .....	3
POLSC 375	Threat and Strategic Planning .....	3

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TOTAL 18

***Required Courses for Certificate in Homeland Security Studies***

POLSC 270	Introduction to Homeland Security .....	3
POLSC 271	Terrorism .....	3
POLSC 272	Critical Incident Management .....	3

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TOTAL 9