Assignment 6—Chapters 12, 19-21
CptS 425/580—Network Security
Assigned: 17 November 2005
Due: 1 December, 5:45pm

Explain and/or justify all of your answers. Short answers are sufficient, but ‘Yes’/’No’-type answers will not receive full credit. If you make any assumptions, please state them.

Chapter 12
15 Pts. List and define the eight design principles covered in Chapter 12.

Chapter 19
15 Pts. List and define the three major types of malicious logic.
10 Pts. Present an argument for the statement that Trojan horses are worse than viruses.
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25 Pts. Compare and contrast Thompson’s compiler and the Soviet gas pipeline explosion incident from a malware perspective. (Give at least two similarities and two differences).

Chapter 20
15 Pts. What are the three classes of attackers that must be considered during penetration testing?
15 Pts. Can penetration testing prove that a system is secure? Why?

Chapter 21
15 Pts. Why should secure systems have auditing systems integrated into their designs and implementations?
15 Pts. Why would an attacker want access to unsanitized logs?