# **FINAL EXAMINATION**

**CYBE 5740 – Secure Acquisition**

Name

**Questions**: (for 3 points each) - return to:

1. Explain how the three communities of practice function in a multi-tiered supply chain structure? Why are suppliers likely to fulfill all three roles? What is the consequence of their doing that?
2. Why is it necessary to perform a functional decomposition of the product tree? Specifically, what does this allow you to control. Where does intangibility fit into this problem and how can it be addressed?
3. What is the justification for a well-defined SCRM process? And how do the communities of practice fit into the operation? More importantly, explain why the product tree is so important to establishing the assurance.
4. Explain the linkage between the specification and the contracting phases in the assurance of trusted products. Why are these two phases critically linked to the acceptance phase?
5. What is the role of the “Need to Acquire” document in the assurance of a secure product? Specifically, how does initial planning for product implementation impact the selection of options for product acquisition?
6. What is the role of capability maturity in the development and evaluation of a secure product? Which of the five types of SCRM failure outlined by the OMB does the concept of capability maturity directly address.
7. What is the role of explicitly designed and monitored controls in the assurance of sourced products, or services? How can a formal standard be used to create an effective control structure?
8. What is a mitigation? What is the role of identification and risk analysis in developing effective mitigations for the supply chain? Is this a dynamic process (meaning can it change in-stream)? If it is how are mitigations maintained?
9. What is the role of measurement and metrics in the overall Acquisition/SCRM process? What does measurement allow an organization to do that might be extremely attractive for businesses?
10. That is the difference between (internal) supplier and (external) acquirer audits in the Acquisition process? Provide a justification for using both approaches in effective, long term product/services assurance.