

# MIS 5214 – Security Architecture – Syllabus

<b>Instructor Information</b>	Greg Senko greg.senko@temple.edu						
<b>Office Information</b>	Mitten 210 by appointment						
<b>Office Hours</b>	By Appointment (typically before or after class on Thursday)						
<b>CRN</b>	25111	<b>Section</b>	1	<b>Location</b>	Alter 0A602	<b>Time</b>	Thursday 5:30 – 8:00

## Course Objectives

In this course you will gain an understanding and a practical of the techniques and architectural components used to provide a secure computing environment.

The Key subject areas that are covered in the course are:

1. Enterprise Security Architecture Concepts
2. The Technologies and Techniques used in Cyber Security Architecture

While the first half of the course has a concentration on cyber architectural concepts, the technologies of cyber security architecture are introduced almost immediately leading up to the mid-term exam. The second half of the course covers additional cyber security architectural components and concepts. The final exam will be comprehensive.

The semester long design project requires a milestone deliverable in the week before the mid-term. The completed project is due the week before the final exam.

Smaller weekly design-related assignments focus on the technical topics of study for that week.

All assignments are due by noon on the Wednesday before we meet for that week's class.

## Grading

Item	Percent of Total Points
Class Participation	10%
Weekly assignments	10%
Mid-Term Exam	20%
Final Exam	20%
Semester Project	40%
<b>Total</b>	<b>100%</b>

## *Participation*

Much of your learning will occur as you prepare for class and complete the weekly assignments. However, participation in discussions in class about the assignments and the course material are also essential. The design assignments and readings are an attempt to bring the real world into class room while giving you to practice using the techniques we cover in a practical way..

To encourage participation, 10% of the course grade is earned by being prepared for class and being ready to discussing you weekly assignment in class. Over the course of the semester, everyone will have a chance to lead the discussion. Evaluation is based on you demonstrating your engagement with the material and your willingness to engage and share your insights in class. So, attendance will be a factor in the 10% total possible score for participation

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- 1) **Preparation for class** – To facilitate active participation in the class I request that you do the following before noon on the Wednesday before each Thursday class session:

Briefly address and summarize:

- a. One key point you took from each web based reading assigned for the next class session. (One or two sentences per reading)
- b. One question that you would ask your fellow classmates that facilitates discussion.

This submission is to be posted as a comment in response to a weekly class blog post by the instructor with details of the class and assignments. The comment should be posted by noon on the day before the class meets that week.

- 2) **Participation during class** – I will chose 2 -3 students per class to have them introduce the result of their weekly design assignment. I will display their design assignment work and they will lead the discussion with the class.

So, in summary, the criteria for participation include attendance, punctuality, level of preparation, professionalism, asking and answering questions, discussing readings and, overall, contributing to a positive learning environment. Recognizing that students sometimes have unavoidable conflicts, please notify me in advance if you will be late or miss a session and I will work with you to mitigate the circumstances.

### **Semester Project**

Your work over the semester will lead-up to your ability to represent an enterprise security architecture solution as a diagram or diagrams with annotations. The project involves depicting a Security Architecture for one of the following businesses:

Financial (Bank, brokerage, Insurer, etc.)  
Hospital/Medical Services  
Pharmaceutical/Chemical  
Social Media Company  
Energy Company (Electrical Utility, Oil Company, Solar, Wind, etc.)  
Manufacturer (Automobile, Computer, Consumer Electronics, etc.)

There are 2 milestone deliverables for the project:

**Milestone 1:** Project Abstract, Goals and Approach

Submissions due no later than **Wednesday at noon the week before the mid-term exam** as an email attachment or attachments to my [tue90933@temple.edu](mailto:tue90933@temple.edu) address.

**Milestone 2:** Architectural diagrams and annotations

Submissions due no later than **Wednesday at noon the week before the final exam** as an email attachment or attachments to my [tue90933@temple.edu](mailto:tue90933@temple.edu) address.

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***Please note: Late submissions for these deadlines will result in diminished credit earned for this assignment.***

Submissions will be graded on completeness, clarity, technical correctness and suitability to the business situation. This project represents 40% of your grade.

### **Exams**

We will have a mid-term exam that covers the materials that we will address in the first 6 weeks of the semester. It will be multiple choice and represent 20% of your grade.

### **Final Exam**

The final exam will be multiple choice. The exam will be comprehensive. Anything we cover during the semester could appear on the final. The final exam is also weighted as 20% of your final grade.

<b>Readings</b>	
<b>Text</b>	<b>Enterprise Security Architecture: A Business-Driven Approach Hardcover – November 2005 by John Sherwood, Andrew Clark, David Lynas</b>  <b>I will refer to this book at "Sherwood"</b>
<b>Other Readings</b>	<b>Assigned on a weekly basis</b>