

**Syllabus OR 652**  
**Military OR II – Effectiveness Analysis**  
**Fall 2012**

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**Text:** *Methods of Military Operational Analysis*, Loerch and Rainey, eds.  
Available from the Military Operations Research Society (MORS) at  
[https://netforum.avectra.com/eweb/shopping/shopping.aspx?site=mors&shopsearch=methods&prd\\_key=33910907-bd75-4aa3-84e5-cafb0d27fc41](https://netforum.avectra.com/eweb/shopping/shopping.aspx?site=mors&shopsearch=methods&prd_key=33910907-bd75-4aa3-84e5-cafb0d27fc41)

**Course Objectives:** The purpose of this course is to introduce students to analytical methods for support of national security decisions. The course focuses on analysis at the military service and national levels. The student will have the opportunity to do cases studies on realistic problems, learn relevant techniques that are applies to standard military operations research problems, and to do a project on a national security issues. At the conclusion of the course, successful students will be familiar with a large set of national security problems, and will be able to work in a government agency or defense contractor that supports defense decision makers.

<u>Topic</u>	<u>Assignment</u>
Introduction, Presentations, Defining the problem	
Decision Analysis for Military Problems, Affinity Diagram	Read Chapter 19 Homework problem
Homeland Security – Defending the Network	Homework to be assigned
Theater Campaign Modeling, Base of Sand JICM, THUNDER, CEM, TACWAR, GCAM	Read Chapter 2, 3 Case Study #4
Equipment Modernization, Optimization L1Example	Read Chapters 6 and 7, Case Study #1
Strategic Mobility and Deployment	Case Study #2 Read Chapter 9
Force Structure Analysis,	Read Chapter 8

Small Scale Contingencies, MTOFs

Read Chapter 4, Case Study #3

Logistics and Requirements, Army Example

Read Chapter 12

Group Projects

Presentations

**Grading:**

Case Studies

30%

Final Exam

30%

Project

30%

Class & Homework

10%

100%