

**Syllabus OR 652**  
**Military OR II – Effectiveness Analysis**  
**Fall 2014**

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**Office Hours:** Before or after class, or by appointment

**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

<b>Grading:</b>	Case Studies	30%
	Final Exam	30%
	Project	30%
	Class & Homework	<u>10%</u>
		100%

### **Student Expectations:**

#### **Academic Integrity**

Students must be responsible for their own work, and students and faculty must take on the responsibility of dealing explicitly with violations. The tenet must be a foundation of our university culture. [See <http://academicintegrity.gmu.edu/distance/>].

#### **Honor Code**

Students must adhere to the guidelines of the George Mason University Honor Code [See <http://oai.gmu.edu/honor-code/masons-honor-code/>].

#### **MasonLive/Email (GMU Email)**

Students are responsible for the content of university communications sent to their George Mason University email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students solely through their Mason email account. [See <https://thanatos.gmu.edu/masonlive/login>].

#### **Patriot Pass**

Once you sign up for your Patriot Pass, your passwords will be synchronized, and you will use your Patriot Pass username and password to log in to the following systems: Blackboard, University Libraries, MasonLive, myMason, Patriot Web, Virtual Computing Lab, and WEMS. [See <https://thanatos.gmu.edu/passwordchange/index.jsp>].

#### **University Policies**

Students must follow the university policies. [See [University Policies](#)].

**Diversity:** George Mason University promotes a living and learning environment for outstanding growth and productivity among its students, faculty and staff. Through its

curriculum, programs, policies, procedures, services and resources, Mason strives to maintain a quality environment for work, study and personal growth.

### **Responsible Use of Computing**

Students must follow the university policy for Responsible Use of Computing. [See <http://universitypolicy.gmu.edu/1301gen.html>].

### **University Calendar**

Students must follow the university policies. [See [Catalogue](#)].

### **Students with Disabilities**

Students with disabilities who seek accommodations in a course must be registered with the George Mason University Office of Disability Services (ODS) and inform their instructor, in writing, at the beginning of the semester [See <http://ods.gmu.edu>].

**Students are expected to follow courteous Internet etiquette.**

### **Student Services:**

#### **University Libraries**

University Libraries provides resources. [See <http://library.gmu.edu/distance>].

#### **Writing Center**

The George Mason University Writing Center staff provides a variety of resources and services (e.g., tutoring, workshops, writing guides, handbooks) intended to support students as they work to construct and share knowledge through writing. [See <http://writingcenter.gmu.edu>]. You can now sign up for an Online Writing Lab (OWL) session just like you sign up for a face-to-face session in the Writing Center, which means YOU set the date and time of the appointment! Learn more about the [Online Writing Lab \(OWL\)](#) (found under Online Tutoring).

#### **Counseling and Psychological Services**

The George Mason University Counseling and Psychological Services (CAPS) staff consists of professional counseling and clinical psychologists, social workers, and counselors who offer a wide range of services (e.g., individual and group counseling, workshops and outreach programs) to enhance students' personal experience and academic performance [See <http://caps.gmu.edu>].

#### **Family Educational Rights and Privacy Act (FERPA)**

The Family Educational Rights and Privacy Act of 1974 (FERPA), also known as the "Buckley Amendment," is a federal law that gives protection to student educational records and provides students with certain rights. [See <http://registrar.gmu.edu/privacy>].