

**George Mason University  
Center for Bio-defense  
Nonproliferation in Bio-defense  
BIOD 709**

Summer 2004

**SYLLABUS**

**Basic Course Information**

**Instructor:**

Dr. Peter M. Leitner

703-380-3386

E-mail: pleit@erols.com

Office Hours: Tuesday before or after class, or by appointment

**Location:** Arlington Campus Rm. 268

Day: Tuesday, Time: 7:10 – 9:30 pm

**Course Readings**

Students are required to obtain the books listed below. In addition, numerous handouts will be distributed by the Instructor throughout the semester.

**Goals:**

This course will introduce students to a range of nonproliferation issues to include: selected agents of bio-terrorism, regulatory and Treaty approaches to non-proliferation as a general matter, political – ethical – military – technological concepts, and contemporary terrorism concerns. Lecture topics will include examples of offensive biological programs and historical methods of nonproliferation. Students will learn the successes and downfalls of nonproliferation regimes. During the semester guest speakers will be invited to present their particular expertise on key issues.

**Course Organization**

Although this is primarily a lecture course, students are expected to join in class discussion, and class participation is part of the grade. Students will be responsible for a major in-class team project that will involve outside research and in-class presentations. Students are expected also to have read the assigned material before it is discussed in class.

The grade for the semester is based on the following criteria:

<b>Group Project: 5 page issue paper:</b>	<b>15%</b>
<b>In-Class Powerpoint Presentation:</b>	<b>50%</b>
<b>Class participation:</b>	<b>15%</b>
<b>Final Exam: Multiple choice test</b>	<b>20%</b>

**The final exam** will be a multiple choice and short answer format.

**The 5-page paper** will be a descriptive account of a biological weapons related program, a bio-terror incident, and/or a lessons-learned account. Students will form small groups and collaborate on this project with each student being responsible for a clearly defined 5-page section. A grade will be given for each student, as an individual contributor, not on the overall project. The 5-page contribution will be exclusive of front-matter, references, or appendices. Pages will be typewritten and double-spaced. Some class time will be allocated for groups to meet and coordinate their efforts. Topics must be cleared by the instructor.

**The in-class Powerpoint presentation** will be an individual effort by each student to create a detailed briefing of a particular topic of interest and relevance to this course. Students will research their topic and array their data in the form of a briefing to a high-level policy maker. Issues must be well framed, concise, and backed by credible data. These qualities will be assessed as well as visual and verbal presentation. Topics must be cleared by the instructor.

**The class participation** grade is based on the participation in general class discussion and interaction with guest speakers.

### **Honor Code Policy**

The Honor Code policy established by the University relative to the types of academic work indicated below is set out in the appropriate paragraphs:

1. Quizzes, Tests and Examinations. No help, other than from the Instructor, may be given or received by students during the taking of quizzes, tests or examinations, whatever the type or wherever taken, unless the instructor specifically permits deviation from this standard.
2. Course Requirements. All work submitted in fulfillment of course requirements is to be solely the product of the individual(s) whose name(s) appears on it.

Except with permission of the instructor, no recourse is to be had to projects, papers, lab reports or any other written work previously prepared by another student, and except with permission of the instructor no paper or work of another type submitted in partial fulfillment of the requirements of another course may be used a second time to satisfy a requirement of any course in the Department of Public Affairs. No assistance is to be obtained from commercial organizations that sell or lease research help or written papers. With respect to all written work as appropriate, proper footnotes and attribution are required.

3. Required Reading. A signed pledge that reading required for a course has been completed may be made a condition of receiving credit in that course. Inability to sign the pledge when required on the final exam will result in the assignment of a grade of "I".

## **Instructor**

Dr. Leitner is President of the Higgins Counter Terrorism Research Center and a principal instructor of Police Departments in Counter-terror methods, weapons of mass destruction, and intelligence analysis. He has served as an instructor at the Joint Counterintelligence Training Academy, and as an adjunct faculty member with the graduate schools of George Mason University, University of Northern Virginia, Mt. Vernon College, and Southeastern University, teaching courses on terrorism, policy analysis, international relations, international business, and international security. Additionally, he is a consultant to the Law School at New York University. For 18 years Dr. Leitner served as a senior strategic trade advisor in the Office of the Secretary of Defense. His area of specialty included Weapons of Mass Destruction, State Sponsors of Terrorism, and China.

Dr. Leitner is co-editor-in-chief of the interdisciplinary Journal of Power and Ethics (SPAEF.COM). He serves as an adjunct faculty member with the graduate schools of George Mason University, Mt. Vernon College, and Southeastern University, teaching courses in international relations and international business. He is also the author of two nonfiction books: Decontrolling Strategic Technology, 1990-1992: Creating the Military Threats of the 21st Century (1995) and Reforming the Law of the Sea Treaty: Opportunities Missed, Precedents Set, and U.S. Sovereignty Threatened (1996); the Co-Editor of the Handbook of Public Quality Management (2001), Co-editor of the forthcoming Handbook of Technology Management, (2004) as well as numerous journal articles. Leitner is completing his first novel, tentatively titled NANSHA: War in the South China Sea.

Dr. Leitner has testified several times before Congress on issues of nuclear proliferation, dual-use technology transfer, and the Law of the Sea Treaty and has appeared on numerous local and syndicated radio programs as well as CBS' *60 Minutes* show and ABC's *20/20*. He received a doctorate from the University of Southern California, and he holds four master's degrees as well. He resides in Arlington, Virginia, with his wife and four children.

## Class Schedule

<b>Class</b>	<b>Date</b>	<b>Readings</b>	<b>Assignments Due</b>
1	5/18	<b>Introduction</b>	-----
2	5/25	<b>Export Control Regimes I</b> Treaties Multilateral Arrangements Unilateral Weapons Specific Regimes	Handouts Laqueur book
3	6/1	<b>Export Control Regimes II</b> US Controls EAR ITAR DOE/NRC	Handouts
4	6/8	<b>Diversions, Risks, Prosecutions, Violations</b> McDonnell Douglas & Garrett Engine Cases Induction Furnaces to Iraq Night Vision to Iraq	Handouts
5	6/15	<b>Terrorism and Weapons of Mass Destruction</b>	Lifton Book Handouts
6	6/22	<b>Class Role Playing Exercise</b>	-----
7	6/29	<b>Weapons of Mass Destruction and their Effects</b> <b>The Biological Weapons Threat</b> <b>Detection, Identification, Response</b>	Handouts WMD Handbook
8	7/6	<b>Proliferation</b>  ***** STUDENT PAPERS DUE *****	Proliferation Primer Cirincione book  <b>Student Papers Due</b>
9	7/13	<b>Situational Ethics</b>	Handouts Goliszek Book
10	7/20	<b>Student Presentations</b>	
11	7/27	<b>Student Presentations</b> <b>Review</b>	
12	8/3	<b>Final Exam</b>	

### Required/Suggested Reading -- Books:

Lifton, Robert Jay. Destroying the World to Save It: Aum Shinrikyo, Apocalyptic Violence, and the New Global Terrorism. Metropolitan Books, 1999. ISBN: 0-8050-5290-9

Goliszek, Andrew. In the Name of Science: A History of Secret Programs, Medical Research, and Human Experimentation. St. Martin's Press, 2003. ISBN: 0312303564.

Laqueur, Walter. The New Terrorism: Fanaticism and the Arms of Mass Destruction. Oxford University Press, 2000. ISBN: 0195140648.

Cirincione, Joseph, et al., Deadly Arsenals: Tracking Weapons of Mass Destruction. Carnegie Endowment for International Peace, 2002. ISBN: 0870031937.

**Required Reading -- Handouts:**

A wide variety of relevant documentation, articles, and other supplementary reading material is provided on CD.