

IR 505

## **DISARMAMENT, ARMS CONTROL and NON-PROLIFERATION**

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### **COURSE PROFILE**

The course will examine why and how disarmament, arms control and non-proliferation have become important issues in modern diplomacy. It will analyze the progress made in agreeing global and regional agreements, in verification and compliance techniques, and the role such agreements play in post Cold War security discussions. It will focus on the impact that weapons of mass destruction have had on this process; how globalization has facilitated transfers of key weapons technologies and led to complex international trade controls; and how the current challenges to global security from proliferation, rogue states, non state actors and terrorism are being addressed. It will also analyze the problems of conflict caused by small arms proliferation in the developing world and the efforts so far made to limit this process. New weapons systems such as unmanned air vehicles or drones and new threats like cyber-warfare and space-based weaponry will be discussed as current challenges to arms control. The course will examine recent initiatives to enhance security such as the Proliferation Security Initiative and technology advances in verification. The prospects for future progress in arms control will be examined in the context of new emerging powers and the diminishing effectiveness of conventional military power.

### **REQUIRED READING**

Arms Control: The New Guide to Negotiations and Agreements. Jozef Goldblat. Second Edition, Sage Publications. 2002 .

Combating Weapons of Mass Destruction: The Future of International Nonproliferation Policy, Edited by Nathan E. Busch and Daniel H. Joyner, Georgia University Press, 2009

Bomb Scare: The History and Future of Nuclear Weapons, Joseph Cirincione, Columbia University Press 2008

A History of Chemical and Biological Weapons, by Edward M Spiers, Reaktion books, 2010

## **Academic Honesty**

Without exception, students are expected to adhere to the Boston University CAS Academic Code. Please read the Boston University Academic Conduct Code. Accordingly, all instances of academic dishonesty will be reported to the CAS Academic Conduct Committee. Please see <http://www.bu.edu/cas/students/undergrad-resources/code/>.

## **Grading**

The course will require a short research paper of 5000 words on a topic relevant to the subject matter of the course to be agreed between the student and professor.

Grading will be based on the following components: 20 % midterm exam (held after week 7 in the course), 30% required paper, 30% final exam, 20% participation. The research paper will due by the end of November 2013.

## **WEEK 1**

### **Origins and history of arms control.**

Readings:

Chapters 1 and 2, Goldblat Pages 3-32

A History of Chemical and Biological Weapons, by Edward M Spiers, Reaktion books, 2010, pages 27-68

A brief history of nuclear weapons: ICAN <http://www.icanw.org/history>

## **WEEK 2**

### **Pre World War II Attempts at Arms Control. History of humanitarian law. The Hague/Geneva Conventions.**

Readings:

Goldblat, Chapters 1 and 2.

The progress of international humanitarian law:

<http://www.redcross.lv/en/conventions.htm>

[http://www.hrea.org/index.php?doc\\_id=415](http://www.hrea.org/index.php?doc_id=415)

<http://www.icrc.org/eng/resources/documents/misc/additional-protocols-1977.htm>

<http://www.internationallawobserver.eu/2009/01/31/whither-now-additional-protocol-i/>

Naval Treaties in Arms Control: Goldblat. Pages 173-185

## **WEEK 3**

### **The nuclear genie.**

Readings:

"Atoms for Peace" speech by President Eisenhower, 1953. Text:

[http://www.iaea.org/About/history\\_speech.html](http://www.iaea.org/About/history_speech.html)

Bomb Scare: The History and Future of Nuclear Weapons, Joseph Cirincione, Columbia University Press 2008. Pages 1-108

## **WEEK 4**

### **Dealing with Nuclear Weapons post World War 2 : The Nuclear Non-Proliferation Treaty**

Readings:

Goldblat. Pages 101-125.

The Non-Proliferation Treaty: history and current problems: Arms Control Today, December 2003.

Should the NPT be Extended Indefinitely?, Carnegie Endowment for Peace, November, 1993

"The Future of the NPT", John Simpson in Busch and Joyner pages 45-73.

## **WEEK 5**

### **Nuclear Arms Control: The Bilateral Approach and the Cold War- US/USSR agreements. SALT. START, INF, ABMT. CTBT. Fissile Material Cut-Off Treaty**

Readings:

Goldblat. Pages 48-100

Jennifer E Sims " The American Approach to Nuclear Arms Control: A Retrospective." Arms Control : Thirty Years On " special edition of Daedalus , Winter 1991, pp 252-272

START II: Arms Control Today: January/February 1993.

INF Treaty

<http://www.nti.org/treaties-and-regimes/treaty-between-the-united-states-of-america-and-the-union-of-soviet-socialist-republics-on-the-elimination-of-their-intermediate-range-and-shorter-range-missiles/> NTI Monterrey Institute, 2008

FISSILE MATERIAL CUT-OFF TREATY

<http://geneva.usmission.gov/2011/01/28/transcript-rose-gottemoeller/>

<http://thehill.com/blogs/global-affairs/un-treaties/282051-obama-to-push-for-nuclear-treaty-in-second-term>

Nuclear Arms Control:

The U.S.-Russian Agenda. Congressional Research Service briefs, 2006

US-Russia Cooperative Non-Proliferation, Elizabeth Turpin and Brian Finlay, In Busch and Joyner Pages 302-321.

## MISSILE DEFENSE

<http://www.armscontrol.org/threats/Irans-Missile-Program-and-Its-Implications-for-US-Missile-Defense>

[http://www.armscontrol.org/act/2013\\_01-02/Back-to-the-Drawing-Board-The-Need-for-Sound-Science-in-US-Missile-Defense](http://www.armscontrol.org/act/2013_01-02/Back-to-the-Drawing-Board-The-Need-for-Sound-Science-in-US-Missile-Defense)

<http://www.armscontrol.org/factsheets/usmissiledefense>

<http://blog.heritage.org/2012/02/01/in-negotiating-missile-defense-with-russia-obama-could-learn-from-reagan%E2%80%99s-example/>

## WEEK 6

### **Global Nuclear Disarmament - Post Cold War. India and Pakistan. North Korea and Iran. The New Proliferators.**

Readings:

Goldblat. Pages 100-133

A Skeptic's Case for Nuclear Disarmament, Michael R. O'Hanlon, Brookings Institution Press, 2010. Pages 1-142

"Toward a Nuclear Free World." George Shultz, Sam Nunn, Henry Kissinger, William Perry, Wall Street Journal, January 2008.

<http://www.2020visioncampaign.org/pages/336>

Nuclear Free Zones. Goldblat Pages 196-218.

"Unraveling the A. Q. Khan and Future Proliferation Networks" by David Albright and Corey Hinderstein. The Washington Quarterly, Spring 2005, 28:2 pp.

"Proliferation and Non-Proliferation in the 1990s: Looking for the Right Lessons." Brad Roberts.. The Non-Proliferation Review, 1999. Pages 70-95.

South Asia and the Non-Proliferation Regime, Seema Gahlaut in Busch and Joyner pages 222-245

China's Changing Approach to Non-Proliferation, Bates Gill in Busch and Joyner, pages 245-263

The Iranian Nuclear Program, Sharon Squassoni, in Busch and Joyner, pages 281-302

## **WEEK 7**

### **Chemical Weapons:**

The Chemical Weapons Convention 1997. The work of the Organization for the Prohibition of Chemical Weapons (OPCW)

Readings:

Goldblat. Pages 135-158

Abolishing Chemical Weapons: Progress, Challenges, and Opportunities. Paul Walker, Arms Control Today, November 2010

'War of Nerves. Chemical Warfare from World War 1 to Al Qaeda', Jonathan B Tucker, Pantheon Books, 2006. Pages 289 -314 and 350-374

" A History of Chemical and Biological Weapons" Edward M. Spiers, Reaktion Books, 2010 pages 151-177

The Chemical Weapons Convention: Special Edition Arms Control Today October 1992

## **WEEK 8**

### **Biological Weapons**

Biological and Toxic Weapons Convention (BTWC) 1972

Readings:

Joseph Cirincione et al, *Deadly Arsenals: Nuclear Biological and Chemical Threats*, Revised Edition, 2005

"Chemical and Biological Weapons" , Julian Perry Robinson, pages 74-94 in Busch and Joyner.

Spiers pages 126-150, Chemical and Biological Terrorism.

The Biological Weapons Convention: <http://armscontrolnow.org/2012/01/12/dont-neglect-the-biological-weapons-convention/>

## **WEEK 9**

### **Conventional Arms Control. CFE**

#### **Small Arms/ Landmines and development/conflict issues. NGOs role in disarmament**

Readings:

Arms Control Association Factsheet: CFE. <http://www.armscontrol.org/factsheet/cfe>

Goldblat. Naval and Conventional Pages 171-186 and Pages 220-245

Conventional Armed Forces in Europe(CFE) : A Review and Update of Key Treaty Elements.: ACDA Report. Ms Control and Disarmament Agency, December 1997.  
Dorn Crawford.

‘Filling the Gaps in the Conventional Weapons Conventions’ Michael Matheson,  
Arms Control Today, November 2001.

‘Arming Conflict: The Proliferation of Small Arms’, Mike Bourne, Palgrave  
MacMillan, 2007

How Does It Stack Up? The Anti-Personnel Mine Ban Convention at 10, Arms  
Control Today, December 2007 Peter Herby and Eve La Haye

‘Small Arms and Light Weapons: A Neglected Issue “a Renewed Focus.” Bennie  
Lombard, Disarmament Diplomacy, August 2000.  
<http://www.acronym.org.uk/dd/dd49/49small.htm>

## **WEEK 10**

### **Arms Exports Licensing: Controlling Technology. The Nuclear Suppliers Group, The Wassenaar Arrangement, The Missile Technology Control**

## **Regime, The International Missile Code of Conduct**

Readings:

Is the NSG up to the Task? Darryl Kimball, Arms Control Today, July/August 2010

Trade Controls and International Security, Jones, Beck and Gahlaut, in Busch and Joyner. Pages 118-135

The International Arms Trade: Difficult to Define, Measure and Control, Paul Holtom and Mark Bromley, Arms Control Today, July/August 2010

Arms Export Controls. "Non-Proliferation Export Controls: Problems of Capacity or Organized Hypocrisy?" Michael Lipson.

[alcor.concordia.ca/~mlipson/Lipson\\_APSA2004rev.pdf](http://alcor.concordia.ca/~mlipson/Lipson_APSA2004rev.pdf)

The Nuclear Suppliers Group at a Glance. Arms Control Today

The EU Code of Conduct on Arms Exports :

<http://www.consilium.europa.eu/uedocs/cmsUpload/08675r2en8.pdf>

The Arms Trade Treaty 2013

## **Week 11. Terrorism, Intelligence and Non-Proliferation, New Weapons**

Readings:

Dealing with Terrorism involving WMD, Joseph L Pilat, in Busch and Joyner, Combating Weapons of Mass destruction. Pages 9-24,

Chemical and Biological Terrorism. Spiers, pages 126-150

WMD Terrorism, Charles Ferguson in Busch and Joyner. 24-44

Nuclear Terrorism: The Ultimate Preventable Catastrophe Graham Allison  
Carnegie Council meeting November 16<sup>th</sup>, 2004.

[http://www.carnegiecouncil.org/resources/transcripts/5049.html/\\_res/id=sa\\_File1/Nuclear\\_Terrorism.pdf](http://www.carnegiecouncil.org/resources/transcripts/5049.html/_res/id=sa_File1/Nuclear_Terrorism.pdf)

SPACE-BASED WEAPONS

<http://www.howstuffworks.com/space-war2.htm>

CYBER WEAPONS

Cyber Weapons; Thomas Rid and Peter McBurney



<http://dx.doi.org/10.1080/03071847.2012.664354>

<http://www.chathamhouse.org/research/security/current-projects/london-conference>

<https://www.gov.uk/government/speeches/foreign-secretary-opens-the-london-conference-on-cyberspace>

<http://www.dukechronicle.com/articles/2013/02/20/national-security-specialists-debate-potential-viability-space-weapons>

DIGITAL ARMS TRADE

<http://www.economist.com/news/business/21574478-market-software-helps-hackers-penetrate-computer-systems-digital-arms-trade>

DRONES – Their implications for Arms Control

<http://www.gao.gov/assets/650/648348.pdf>

## **WEEK 12**

### **New ideas in Disarmament : Advances in Verification**

Readings:

Goldblat. Pages 309-345.

The Proliferation Security Initiative, Partnering Around the World to Stop the Trafficking of Weapons of Mass Destruction, Patricia A McKearney, The Fletcher Forum of World Affairs, Tufts University: Non-Proliferation of Weapons of Mass Destruction : Current Challenges and New Approaches. Special Edition 2006 Vol 30:3 <http://fletcher.tufts.edu/forum/archives.shtml>

The Proliferation Security Initiative , James R. Holmes and Andrew Winner, pages 139-155 in Busch and Joyner

“ Security in an Age of Anxiety, What Verification Can Offer,” Antonia Handler Chayes in The Fletcher Forum above

"New Approaches for Addressing the Threat of WMD Proliferation" Ashton B. Carter, in Fletcher Forum above.

### **WEEK 13**

Review

**WEBSITE :** There is no website

### **LATE WORK and ABSENCES**

All absences must be reported.

### **DATES OF EXAMINATIONS**

Midterm examination : after week 7

Final examination: TBA