This course examines how cyberspace, particularly the Internet, can serve as a tool, target, and source of conflict for both state and non-state actors. Topics include: power in cyberspace, state control over cyberspace, methods of cyber conflict, laws and ethics of cyber conflict, cyber warfare, infrastructure threats and vulnerabilities, cyber deterrence and defense, and cyber conflict strategy and challenges.

The grading will be:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tr>
<td>First Group Project</td>
<td>20%</td>
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<tr>
<td>Second Group Project</td>
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<tr>
<td>Midterm Essay</td>
<td>15%</td>
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<tr>
<td>Take Home Final Exam due May 1</td>
<td>25%</td>
</tr>
<tr>
<td>Class Participation</td>
<td>20%</td>
</tr>
</tbody>
</table>

The required books are:


1. Introduction. Jan. 9


2. Singer and Friedman, pp.1-72.


5. Sobelman, Batsheva, “Israel braces as hackers launch Internet attack,” LA Times, April 7, 2013.
8. Singer and Friedman, pp. 72-76.


3. Singer and Friedman, pp. 91-96 and 138-144.

5. Rid, Thomas, 2013. Cyberwar Will Not Take Place (London: Hurst and Co.), ch 5 on Espionage, pp.81-112. (also relevant to Iran and attribution)


2. Singer and Friedman, pp. 114-120. (Stuxnet including ethics)


5. Singer and Friedman, pp. 133-138


2. Singer and Friedman, pp. 120-133.
6. Clark and Knake, 144-78.


1. Clark and Knake, pp. 103-44.
2. Singer and Friedman, pp. 166-180 and 205-246


2. Singer and Friedman, pp. 144-61.


1. Singer and Friedman, pp. 96-106. (Cyberterrorists)
3. Singer and Friedman, pp. 77-84. (Hactivists)
4. Singer and Friedman, pp. 106-114. (Dissidents and Patriots)
5. Singer and Friedman, pp. 85-91. (Criminals)


1. Singer and Friedman, pp. 180-204.
2. Clarke and Knake, 219-255.


14. Future of the Internet and Cyber Conflict. April 15 and 17.

2. Singer and Friedman, pp. 247-56.

15. Review. April 22.

Final Exam Due May 1.