

IR 350

United States Foreign Policy in Space

“Ah, but a man’s reach should exceed his grasp, Or what’s a heaven for?”

— Robert Browning

INSTRUCTOR: Bryan Nakayama

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OFFICE HOURS: 10am–11:0am Monday/Wednesday & by appointment

OFFICE: Skinner 211

COURSE DESCRIPTION

Once the crown jewel of U.S. Cold War public diplomacy, NASA has fallen into decline due to faltering public interest and budget. At the same time, there has been a “space rush” as private corporations have sought to normalize civilian space travel. This seminar explores the dynamics of the United States’ Foreign Policy in Space—how it was developed and with what effects. By engaging with archival materials and scholarship this course will answer the following questions (among others): Why hasn’t Space been weaponized? What role does technological prestige play in public diplomacy? What are the roots and future of the commercial space industry?

I ASSIGNMENTS AND GRADES

- ✓ Attendance and Participation 15%
- ✓ IR Theory Wiki Entry 5% (2/16)
- ✓ Simulation 10% (3/9)
- ✓ Analysis Papers 20% (First by 3/2)
- ✓ Research Paper 50%
 1. One page proposal 5% (3/23)
 2. Workshop Presentation and Rough Draft 20% (4/20)
 3. Final Draft 25% (5/7 by noon)

Details on these assignments, and a description of the requirements and expectations will be distributed a minimum of two weeks before they are due.

Attendance and Class Participation 15%

Students are expected to arrive in class having read and thought about the assigned materials. Unexcused absences, side conversations, late arrivals, or early departures will detract from your overall participation grade. Being an active participant in class requires both contributing your own perspective as well as carefully listening to and engaging with others. All students are allowed to miss up to two classes without it impacting their grade. Beyond that you must provide a documented reason for missing class otherwise your participation grade will be penalized.

IR Theory Wiki Entry 5%

A short entry to the class wiki that summarizes the key contours of a theoretical approach. These will be composed in groups and should include the key claims of a theoretical approach and suggestions on what kinds of evidence or aspects of space policy would confirm or deny these theories.

Simulation 10%

On 3/9 we will simulate a meeting of the NSC Excomm to set the first space policy. In this simulation students will play the roles of various bureaucratic actors who had a stake in space policy.

Analysis Paper 20%

Two to three pages each. These papers will be written at the student's discretion, however, one paper must be submitted by 3/2. Students will not be expected to engage in original research for these papers but rather to analyze one period of space policy utilizing an international relations theory.

Research Paper 50%

12-15 pages. The research paper may be written on a topic of your choosing, subject to the approval of the instructor. This paper can take many forms: a comparative study of U.S. space policy with other nations, the application of a theoretical framework from International Relations theory to understand a moment in space policy, etc. Students should expect to set up a meeting with the instructor prior to writing the paper topic proposal. As this is a large paper covering a complex issue area, you will build up to the final draft through a series of intermediate assignments. The successful completion of the paper is contingent on taking each of these assignments seriously. Additionally, during the last two weeks of the semester, students will be expected to give a presentation on a draft of their papers to the entire class.

****** All written assignments are due via email******

II REQUIRED MATERIALS

This course has no required materials and all readings will be distributed via pdf on the course Moodle.

III EXPECTATIONS AND POLICIES

Assignments and Due Dates

Due dates for assignments will be strictly enforced, **the penalty for an unexcused late assignment is 1/3 of a letter grade per day**. Of course contingencies arise and exceptions to a due date will be granted on a case by case basis. However, **extensions will not be granted after the assignment is due**. In fairness to classmates, students will be required to provide some sort of written documentation for their late work or excused absence from class. Please contact me well ahead of time if you will need an extension or other accomodation. Course incompletes and final paper extensions will be granted in accordance with college policy (See: <https://www.mtholyoke.edu/academicdeans/incompletes-extensions>).

Academic Integrity

Academic integrity is critical to a productive learning and classroom environment. All students are expected to make a good faith effort to complete their assignments with *fairness* and *honesty*. Not only is academic dishonesty unfair to your classmates, it also limits your own ability to learn and develop critical faculties. Using proper citation and attribution practices is critical to respecting the work of others and demonstrating the hard work you are doing.

In this class there will be a zero tolerance policy for cases of plagiarism. Therefore, assignments that plagiarize other sources will garner an automatic F grade. Repeated instances of plagiarism will result in an F grade for the course. We will briefly discuss what constitutes plagiarism at the beginning of the semester, I also encourage all students to utilize the “Proper Use of Sources Tutorial” provided by LITs: <https://sites.google.com/a/mtholyoke.edu/proper-use-of-sources-mhc/home/>

Fostering a Positive Classroom Environment

Effective learning can only occur in a positive classroom environment, therefore we have a shared responsibility in ensuring that everyone in the class feels welcome to contribute. Over the course of this class we will be discussing issues of war and violence and oftentimes it is easy to forget the real human suffering involved in these events. Therefore, it is incumbent on us to continually recognize that we are talking about things and events that impacted real people and speak about them with due respect. Everyone enters the classroom with their own unique perspective and relationship to historical events. Events that seem historically abstract to you may

have involved the family or friends of a classmate. It is critical that we take care to recognize this as we go through class.

On the first day of class we will engage in an activity to develop a shared set of norms for conduct in the classroom. These norms will be posted to the Moodle with the expectation that all students abide by them for the semester.

If students have any concerns about the conduct of class please do not hesitate to contact me by email, online anonymous comment box (<https://goo.gl/forms/IbogL1YXv3ZksMBU2>), or in office hours.

Alternative Accommodations

All students are welcome in class and should provide reasonable notice to myself for any potential alternative accommodations needed.

Email Policy

When emailing me regarding the course please include in the subject line the course number (IR 350) and a short description of your query. I will only respond to emails between the hours of 7am-9pm, please plan accordingly for urgent queries.

Recording Policy

With the exception of an AccessAbility accomodation, all audio/visual recording of class sessions is expressly prohibited.

If and When Problems Arise

While I expect students to come to every class prepared and ready to engage in discussion I also realize that life has many complications. University approved reasons for missing due dates or classes will be honored given proper documentation. If life throws you a curveball that will impact your ability to succeed in class I strongly recommend that you contact me immediately so we can work out a solution. On innumerable occasions students have missed opportunities to do better in class by failing to communicate with me. My role is to be an educator and not a disciplinarian, so please get in touch with me the moment you know you will have difficulty fulfilling course requirements.

IV CLASS SCHEDULE AND READING ASSIGNMENTS

1/26/2018

Introductions

2/2/18: Theoretical Approaches

Wohlforth, William C. "Realism." In *The Oxford Handbook of International Relations*. : Oxford University Press, 2008-08-14.

Hurd, Ian. "Constructivism." In *The Oxford Handbook of International Relations*. : Oxford University Press, 2008-08-14.

Dunne, T.(2008-08-14). "The English School." In *The Oxford Handbook of International Relations*. : Oxford University Press. Retrieved 26 Jan. 2018

Moravcsik, Andrew. "The New Liberalism." In *The Oxford Handbook of International Relations*. : Oxford University Press, 2008-08-14.

Selections from: Michael Sheehan, *The International Politics of Space* (London, United Kingdom: Routledge, 2007)

Selections from: Lucas, William A., and Raymond H. Dawson. 1974. *The organizational politics of defense*. n.p.: Pittsburgh : International Studies Association, [1974], 1974.

2/9/18: Thelemite Cultists, Nazi Scientists and Space before the Space Age

Roger D. Launius, chap. Prelude to the Space Age in *Exploring the Unknown: Selected Documents in the History of the U.S. Civil Space Program Volume I: Organizing for Exploration*, ed. John Logsdon et al. (Washington, D.C.: NASA History Office, 1995), 1–21

Olaf Stapledon, "Interplanetary Man?", in Robert Crossley, ed., *An Olaf Stapledon Reader*, pp. 218-241.

Selections from William Sims Bainbridge, *The Spaceflight / Revolution* (New York, New York: Wiley Interscience, 1976)

Selections from Oberth, Hermann. 2014. *The Rocket into Planetary Space*. Berlin, Boston: De Gruyter Oldenbourg.

Neufeld, Michael J. "Weimar Culture and Futuristic Technology: The Rocketry and Spaceflight Fad in Germany, 1923-1933." *Technology and Culture* 31, no. 4 (1990): 725-52.

Selections from Michael Gruntman, *Blazing The Trail: The Early History Of Spacecraft And Rocketry* (Reston, Virginia: American Institute of Aeronautics / Astronautics, 2004)

Wehrner von Braun, "Survey of Development of Liquid Rockets in Germany and their Future Prospects," *Journal of the British Interplanetary Society* 10, no. 2 (1951): 75–80

J.D. Hunley, chap. A Question of Antecedents: Peenemunde, JPL, and the Launching of U.S. Rocketry in *Organizing for the Use of Space: Historical Perspectives on a Persistent Issue*, ed. Roger D. Launius (San Diego, California: American Astronautical Society, 1995), 1–32

2/16/18: The End of Fortress America, the Technocratic State, Early Satellites, and Missiles

****Wiki entry due****

Scientific and Technological Resources as Military Assets, Eisenhower, Dwight, 1946, Papers of Henry Arnold, Box: 6, Folder: 1: Correspondence Chronological 1946-1947, Library of Congress Manuscript Division.

Walter A. McDougall, ...*the Heavens and the Earth* (Baltimore, Maryland: Johns Hopkins University Press, 1997), 69-111

Henry H. Arnold, *Third Report of the Commanding General Army Air Forces to the Secretary of War* (Baltimore, Maryland: Schneidereith & Sons, 1945), Selections

Selections from Robert L. Perry, *Origins of the USAF Space Program 1945-1961*, technical report (Air Force Systems Command, 1961)

Selections from David N. Spires, *Beyond Horizons: a Half Century of Air Force Space Leadership* (Peterson Air Force Base, Colorado: Air Force Space Command, 2011)

R. Cargill Hall, "Early U.S. Satellite Proposals," *Technology and Culture* 4, no. 4 (1963): 410-434

Selections from David H. DeVorkin, *Science with a Vengeance: How the U.S. Military Created the US Space Sciences after World War II* (New York, New York: Springer-Verlag, 1992)

2/23/18: No Class—Prof out of town

3/2/18: Randroids and the Debates over Space

****First Analysis Paper due****

Selections from Meron E. Davies and William R. Harris, *RAND's Role in the Evolution of Balloon and Satellite Observation Systems and Related U.S. Space Technology* (Santa Monica, California: Rand Corporation, 1988)

"SM-11827 Preliminary Design of an Experimental World-Circling Spaceship," chap. Abstract (Santa Monica, California: Project Rand, 1946), i-viii

Louis Ridenour, chap. Significance of a Satellite Vehicle in *SM-11827 Preliminary Design of an Experimental World-Circling Spaceship* (Santa Monica, California: Project Rand, 1946), 9-16

James E. Lipp, chap. The Time Factor in the Satellite Program in *RA-15032 Reference Papers Relating to a Satellite Study*, ed. James E. Lipp (Santa Monica, California: Project Rand, 1947), 41-49

Lyman Spitzer, “RA-15032 Reference Papers Relating to a Satellite Study,” chap. Tactical Considerations Relevant to a Terrestrial Satellite, ed. James E. Lipp (Santa Monica, California: Project Rand, 1947), 39–40

Paul Kecskemeti, *RM-567 The Satellite Rocket Vehicle: Political and Psychological Problems* (Santa Monica, California: RAND Corporation, 1950)

Aristide V. Grosse, “Exploring the Unknown: Selected Documents in the History of the U.S. Civil Space Program Volume I: Organizing for Exploration,” chap. II-5: A.V. Grosse, The Research Institute of Temple University, to Donald A. Quarles, Assistant Secretary of Defense for Research and Development, “Report on the Present Status of the Satellite Problem,” August 25, 1953, pp. 2-7, ed. John Logsdon et al. (Washington, D.C.: NASA History Office, 1995), 266–269

Selections from *Collier’s Weekly* series “Man Will Conquer Space Soon”

Bernard Schriever, “Orbital Futures: Selected Documents in Air Force Space History,” chap. I-2: Major General Bernard A. Schriever, Commander, Western Development Division Headquarters, Air Research and Development Command, “ICBM - A STEP TOWARD SPACE CONQUEST,” Address to the First Annual Air Force Office of Scientific Research Astronautics Symposium, San Diego, California, 19 February 1957. Ed. David N. Spires, vol. II (Peterson Air Force Base, Colorado: Air Force Space Command, 2004), 20–26

James Gavin, *War and Peace in the Space Age* (New York, New York: Harper, 1958), Selections

Michael J. Neufeld, ““Space superiority”: Wernher von Braun’s campaign for a nuclear-armed space station, 1946–1956,” *Space Policy* 22, no. 1 (February 2006): 52–62, <https://www.sciencedirect.com/science/article/pii/S0265964605001189>

3/9/18: Simulation—Crafting the First Space Satellite Policy

3/16/18: Spring Break

3/23/18: NSC 5520, the Sputnik Crisis, and Early Space Policy

******Paper Proposal due******

McDougall, ...*the Heavens and the Earth*, 112-131, 141-194

R. Cargill Hall, chap. The Eisenhower Administration and the Cold War: Framing American Astronautics to Serve National Security in *Organizing for the Use of Space: Historical Perspectives on a Persistent Issue*, ed. Roger D. Launius (San Diego, California: American Astronautical Society, 1995), 49–62

National Security Council Planning Board, *NSC 5520* (May 1955)

U.S. National Security Council, *NSC 5814: U.S. Policy on Outer Space*, technical report (Executive Office of the President, June 1958)

Andrew G. Haley, *Space Law and Government* (New York, New York: Meredith Publishing Company, 1963), Chapter 4: The limits of national sovereignty

Dwayne Day, chap. Cover Stories and Hidden Agendas: Early American Space and National Security Policy in *Reconsidering Sputnik: Forty Years since the Soviet Satellite*, ed. Roger Launius, John Logsdon, and Robert Smith (London, United Kingdom: Routledge, 2000), 161–190

Selections from: Robert A. Divine, *The Sputnik Challenge* (New York, New York: Oxford University Press, 1993)

Selections from: *Corona: America's First Satellite Program*

3/30/18: MOL-men in an Aerospace Force and Dyna-Soar's Extinction

McDougall, ...*the Heavens and the Earth*, 195-230, 325-343

Selections from Spires, *Beyond Horizons: a Half Century of Air Force Space Leadership*

Selections from Nicholas Sambaluk, *The Other Space Race: Eisenhower and the Quest for Aerospace Security* (Annapolis, Maryland: Naval Institute Press, 2015)

Robert H. Puckett, *The Military Role in Space — A Summary of Official, Public Justifications*, technical report (RAND Corporation, 1962)

Selections from the *Airman*

Roy F. Houchin III, "The Dyna-Soar Program: Why the Air Force Proposed the Dyna-Soar X-20 Program," *Quest: The History of Spaceflight Magazine* 3 (Winter 1994): 10–15

Selections from Carl Berger, *History of the Manned Orbiting Laboratory Program (MOL)*, technical report (MOL Program Office, 1970)

4/6/18: NASA, The Moon, and Cooperation

Preamble, *National Aeronautics and Space Act of 1958*

McDougall, ...*the Heavens and the Earth*, 307-324, 344-407

Dan Nexon and Paul Musgrave *Defending Hierarchy from the Moon to the Indian Ocean: Symbolic Capital and Political Dominance in Early Modern China and the Cold War*

John F. Kennedy *Moon Speech*

John Logsdon, chap. The Development of International Space Cooperation in *Exploring the Unknown: Selected Documents in the History of the U.S. Civil Space Program Volume II: External Relationships*, ed. John Logsdon et al. (Washington, D.C.: NASA History Office, 1996), 1–59

Selections from United Nations *Outer Space Treaty 1968*

Sylvia Kraemer, chap. Organizing for Exploration in *Exploring the Unknown: Selected Documents in the History of the U.S. Civil Space Program Volume I: Organizing for Exploration*, ed. John Logsdon et al. (Washington, D.C.: NASA History Office, 1995), 611–627

Selections from Sheehan, *The International Politics of Space*

4/13/18: Space race anew?

Selections from James Clay Moltz, *The Politics of Space Security: Strategic Restraint and the Pursuit of National Interests* (Stanford, California: Stanford University Press, 2011)

Ronald Reagan, *Address to the Nation on Defense and National Security*, [Online; accessed 10-May-2017], March 23, 1983, <https://reaganlibrary.archives.gov/archives/speeches/1983/32383d.htm>

Maxwell Hunter III, *Strategic Dynamics and Space-Laser Weaponry*, technical report (Sunvale, California: Lockheed Missiles & Space Company, 1977)

Malcolm Wallop, “Opportunities and Imperatives of Ballistic Missile Defense,” *Strategic Review* 7, no. 4 (1979): 13–21

Daniel O. Graham, *High Frontier: a New National Strategy* (Washington, District of Columbia: High Frontier Inc., 1982)

Selections from Edward Reiss, *The Strategic Defense Initiative* (New York, New York: Cambridge University Press, 1992)

Selections from Donald R. Baucom, *Origins of the Strategic Defense Initiative: Ballistic Missile Defense, 1944-1983*, technical report (: Strategic Defense Initiative Organization, December 1989)

4/20/18: Contemporary Issues in Space Policy and Research Presentations (I)

******Rough draft due******

Alexander Wendt and Raymond Duvall, “Sovereignty and the UFO,” *Political Theory* 36, no. 4 (2008)

TBA

4/27/18: Research Presentations (II) & a Surprise???