

Course Syllabus

Summer Course

Instructor Information

INSTRUCTORS

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General Information

Description: Lessons are daylong, beginning at 9:30 am and ending at 5:30 pm unless otherwise noted; some are divided into two blocks when they address different topics.

Course Materials

Required Materials

Readings and videos are on Microsoft Teams. Required videos are marked.

Books and purchases:

- 1. Carl von Clausewitz, *On War*, eds. and trans. Michael Howard and Peter Paret (Princeton, NJ: Princeton University Press, 1984)
- 2. Kimberly Kagan, The Surge: A Military History (New York, NY: Encounter Books, 2008)
- 3. Stanley A. McChrystal, My Share of the Task: A Memoir (New York, NY: Portfolio/Penguin, 2014)
- 4. Peter Paret, *Makers of Modern Strategy: from Machiavelli to the Nuclear Age* (Oxford: Clarendon Press, 2010)
- 5. Jim Scuitto, *The Shadow War: Inside Russia's and China's Secret War to Defeat America* (New York: Harper/Harper Collins, 2019)

- 6. Gordon R. Sullivan & Michael V. Harper, *Hope is Not a Method: What Business Leaders Can Learn from America's Army* (New York, NY: Currency, 1997)
- 7. The Surge: The Whole Story, Directed by Bruce Van Dusen. United States: Brainstorm Media, 2009
- 8. John A. Warden III, The Air Campaign, Revised Edition (iUniverse: 1998)
- 9. John R. Allen, Frederick Ben Hodges, and Julian Lindley-French, *Future War and the Defence of Europe* (Oxford, England: Oxford University Press, 2021)

Lesson 1	July 30th			
TOPIC	LANGUAGE & LOGIC OF WAR			
PURPOSE	Gain foundational knowledge vital for the remainder of the course, including the levels of war framework			
OBJECTIVES	 How are militaries organized? What frameworks help us study war? How do you read a military map? 1. Learn the levels of war 2. Learn how military forces are organized and echeloned 3. Learn the basic vocabulary needed to discuss war and military operations 4. Understand how to read military maps and symbols 			
KEY TERMS	Levels of war; Grand strategic level, Strategic level, Operational level, Tactical level Campaign; Battle; Doctrine; Services; Branches (and the branches themselves); Joint Combined; Combined arms; Firepower; Maneuver; Movement; Unit; Formation Fireteams; Squad; Light infantry squad; Crew served weapons; Individual weapons Direct fire, Indirect fire; Rate of fire; Commissioned officer; Non-commissioned officer; Table of organization and equipment (TO&E); Task organization; Combat power; Staff; Span of control; Command and control; Chain of command; Defeat; Destroy			
MULTIMEDIA (REQUIRED)	 Maps: Austerlitz (1805) Campaign Section https://westpoint.edu/academics/academic- departments/history/napoleonic-wars Videos: Reading a Topographical Map SMCT: Identify Topographic Symbols on a Military Map https://www.youtube.com/watch?v=Ij0_6gfBF5w SMCT: Identify Terrain Features on a Military Map https://www.youtube.com/watch?v=YZJaV1MARhc Videos: Military Symbols Squad Movement Formation & Techniques https://www.youtube.com/watch?v=OKRues4Fwrk The Rifle Platoon Dismounted Movement Techniques Vintage US Army Film https://www.youtube.com/watch?v=-qdFd9Uh0N0 TANK TACTICS: Fast Armored Tactics https://www.youtube.com/watch?v=chMDas1oyUU (Begin at 5:25) 			
READINGS	 Reading Packet (Kagan Readings) US Department of Defense, Chapter 1, "Theory and Foundations," <i>Doctrine for</i> <i>the Armed Forces of the United States</i>, Joint Publication 1 <u>https://www.jcs.mil/Portals/36/Documents/Doctrine/pubs/jp1_ch1.pdf</u> US Department of the Army, <i>Operational Terms and Graphics</i>, Army Field Manual 1-02 <u>https://armypubs.army.mil/epubs/DR_pubs/DR_a/pdf/web/ARN19780_FM%201- 02x1%20-%20FINAL%20WEB.pdf</u> Tactical Terms (in the first chapter, 1-1, beginning on p. 13 of the pdf) Chapter 3 the military symbols basics, 3-1 to 3-10 are important Chapter 4 gives main icons for units (better); focus on section 4-4 			

	(echelon amplifiers) through 4-6 (attached amplifiers)
	• Chapter 9 gives tactical mission tasks with their symbols, useful for
	putting up against terms and also many maps that we will look at.
LESSON	1. Explain the four levels of war and how they are inter-related. Be prepared to use a
PLAN	World War II example of your choosing to illustrate each of the four levels.
	2. Explain the term "echelons" as it applies to an army. Be prepared to describe the
	ranks of those commanding a squad, platoon, company, battalion, brigade,
	division, corps, and army. Also be prepared to describe the general capabilities of each of these commands.
	3. Explain the symbols used on military maps for infantry, armor, artillery, cavalry
	units and headquarters. Be prepared to describe the symbol for each echelon listed in question.
	4. Be prepared to defend your position on the following proposition: There is a direct and fixed correlation between the levels of war and echelons of command.

Lesson 2	July 31st				
TOPIC	ONE NAPOLEONIC BATTLE — AUSTERLITZ				
PURPOSE	Apply the terms and concepts you learned in Lesson 1 to the study of a particular campaign.				
OBJECTIVES	 Understand the Austerlitz Campaign of 1805 Learn how to read military operational history with maps Learn how to evaluate a campaign How did each actor understand the situation at the start of the period covered by the reading? How accurate were their respective pictures? What assumptions did each actor make about what the others would do and his own capabilities? What plans did each actor make to achieve his objectives based on that understanding? Were the plans good? What would that mean? How well did each actor execute his plans? How well did each actor adjust his understanding of the situation both to new information and to changes in the situation itself? Why did Napoleon win? Why did the coalition lose? How did political, diplomatic, and inter-personal considerations affect the conduct of military operations? What lessons should each actor (including Napoleon) have drawn from this campaign? Which actor was best (and which was worst) at each level of war from strategic to tactical? Bring evidence to bear! How did each side try to shape the other's perceptions of the situation and its own intentions? Which was more successful? Why? 				
KEY TERMS	<i>Offense; Defense; Maneuver; Flank; Envelop; Campaign; Battle; Order of battle; Decisive battle; Defeat in detail</i>				
MULTIMEDIA	Video: Napoleon's Masterpiece – Austerlitz 1805 <u>https://www.youtube.com/watch?v=bhQe2cjr5XQ</u>				
READINGS	 David G. Chandler, <i>Austerlitz 1805: Battle of Three Emperors</i> (London: Osprey Publishing, Ltd., 1990), pp. 6–20 Frederick W. Kagan, <i>The End of the Old Order: Napoleon and Europe, 1801–1805</i> (Cambridge, MA: Da Capo Press, 2008), Chapters 17–18, 21–23 Using Austerlitz on August 25, 1805, as an example, what are your grand 				
PLAN RUSSIA, FRANCE, AUSTRIA	 strategic, strategic, operational, and tactical objectives? What are your assumptions and understanding or your opponent and the overall situation about to unfold at Austerlitz? How did your group envisioned the battle unfolding. How did the battle actually unfold for you, and (b) why it unfolded as it did? 				

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tion

- 1. Which side:
 - a. Had the more accurate initial understanding and why.
 - b. Adapted "better" or "faster than the other and why? What allowed them to adapt "better" or "faster," and prevented the other from doing so?
- 2. An understanding of how adaptation applies to each level of war.

Lesson 3	August 1st			
TOPIC	BATTLE OF GETTYSBURG			
GUEST FACULTY	GEN (Ret.) John Allen			
PURPOSE	War in reality vs. war on paper: visualize a battlefield, a campaign, and a war			
OBJECTIVES	 Apply Lesson 1 and 2 framework to the Gettysburg campaign; focus on visualizing battles on terrain Understand how to "see" terrain using military cartography Understand how terrain affects combat in particular technological and doctrinal circumstances Understand how the operational level of war interacts with tactical decision-making before and during combat Understand how strategic considerations shape tactical decision-making Understand the moral and ethical consequences of military decision-making Understand how some military theorists and practitioners interpreted and implemented Napoleonic warfare 			
KEY TERMS	Meeting engagement; Military crest; Enfilading fire			
MULTIMEDIA	Required: <i>Gettysburg</i> , directed by Ronald F. Maxwell (1993; Burbank, CA; Warner Bros. <u>Optional:</u>			
	 Watch Ahead of Class – Understanding Gettysburg Civil War Infantry Tactics <u>https://www.youtube.com/watch?v=tYg3v9lUuNA</u> Civil War Artillery <u>https://www.youtube.com/watch?v=85s-yMUAFqM</u> Civil War Analysis of Terrain <u>https://www.youtube.com/watch?v=RktUeoA3F7w</u> Civil War Logistics <u>https://www.youtube.com/watch?v=ISDQGsdtvX4</u> Civil War Medicine <u>https://www.youtube.com/watch?v=IDYWP2fz4-E</u> 			

READINGS	 Stephen Sears, Chapters 1–2, <i>Gettysburg</i> (New York: Mariner Books Reprint, 2004) James McPherson, Chapter 21, <i>Battle Cry of Freedom</i> (Oxford: University of Oxford Press, 1988) Excerpts from Mark Grimsley and Brooks Simpson, <i>Gettysburg, A Battlefield Guide</i> (Lincoln, NE: Bison Books, 1999) <u>Optional:</u> Jay Luvas, "Lee and the Operational Art: The Right Place, The Right Time," <i>Parameters</i>, Autumn 1992. 			
STUDY GUIDE & LESSON PLAN	 Understand who did what to whom. Know the key players on each side. Make a "cheat sheet" for yourself: Who were the corps commanders under Lee and under Meade? Who were the division commanders under each corps commander? Who were the regimental commanders under each division commander? Who were the cavalry commanders working for Lee and Meade? Understand the context. Read chapters 1-2, Stephen Sears, <i>Gettysburg</i>. As you read use at least two maps from the West Point link provided on the syllabus to follow along. Situation 1 June 1863 and Gettysburg and Vicinity, 1 July 1863. Watch the 5 short videos labeled "understanding Gettysburg" from the syllabus. Understand the terrain. Take a virtual tour of the battlefield. https://www.nps.gov/gett/learn/photosmultimedia/virtualtour.htm. Read the summaries of each day before you take the virtual tour. Know how the battle unfolded. Watch the Gettysburg movie clips. Keep your order of battle (Section III of the PDF handout) and your West Point maps (https://www.westpoint.edu/academics/academic- departments/history/american-civil-war) available to keep you oriented. At each stop. Orient the group to the cardinal directions and to where the Confederate and Union Forces are. Identify the commander and units of both sides. 			

c. <u>Present</u> the facts:

(1) what did each commander intend to do (what was their concept of operations, how did they "see" their forces maneuver and fight, who did they think things would end up)
 (2) how did what they intended fit, or not fit, into that commander's senior's intent

(3) what actually happened

(4) why the difference between what was intended and what unfolded, if any.

6. Along the tour, be prepared to discuss the questions below.

- a. <u>Context</u>. Why did Lee go on the offensive? What did you hope to achieve? What was the CSA's political objective at this point of the war? From which direction did Lee come? Upon what roads did he march his corps? How did he use his cavalry? What was the Union's political objective? Given that, what military objective should Meade have deduced from that objective? From which direction did Meade's army come? Upon what roads did he march his corps? How did he use his cavalry?
- b. <u>Day One</u>. How did the battle begin, by whom of the CSA, by whom of the Union? What were the key decisions made on each side, and by whom? What were the consequences of those decisions? How did the day one battle unfold across the terrain? Why did the CSA and the Union do what they did—why were the day one battles fought where they were fought? Why didn't the CSA attack Culps Hill in the late afternoon of day one? Should they have? Was this a missed opportunity? Who had the initiative on day one? Might there have been a difference between tactical and operational initiative? Who "won" day one? Why did you make that conclusion?
- c. <u>Day Two</u>. How were the two armies disposed on the battlefield? What was Lee's plan for day two? Who was to execute that plan? How was the plan supposed to be coordinated? What actually happened? Was Longstreet derelict in his command duties? What did the Union army expect to happen, and how where they prepared for what they expected? How did they have to adapt to what the CSA actually did? Who gave what orders to

whom to make these adaptation? Who had the initiative at the end of day two? Again, can you distinguish between tactical and operational initiative? Who "won" day two? Why did you make that conclusion?

- d. <u>Day Three</u>. How were the two armies disposed on the battlefield? What was Lee's plan for day two? Who was to execute that plan? How was the plan supposed to be coordinated? What actually happened? What alternatives did Lee have? Why didn't take them? What did the Union army expect to happen, and how where they prepared for what they expected? How did they have to adapt to what the CSA actually did? Who gave what orders to whom to make these adaptation? Who had the initiative at the end of day three? Again, can you distinguish between tactical and operational initiative? Who "won" day three? Why did you make that conclusion?
- e. <u>Context</u>. Did either the CSA's or the Union's strategic objectives met or partially met at the end of day three? Did either attain the military objectives they had at the start of the battle? Should Meade have pursued Lee? How do you judge the success or failure of a battle or campaign?

August 2ndCLAUSEWITZ (FRICTION, CONTRASTING SUPERFICIAL WITH SUBSTANTIVE UNDERSTANDINGS OF WAR); CHAOS & WAR				
 What is war? What should a theory of war achieve? Can it forecast an outcome? 1. Read Clausewitz, Books I and VIII and discuss the questions above 2. Learn the basic concepts of nonlinearity, complexity, and chaos theory in the scientific/mathematical context from which they arose 3. Evaluate the validity of applying those concepts to the understanding of On War 				
War, Politics, Extremes, Critical analysis // Nonlinearity, Chaos, Sensitive dependence on initial conditions, Random, Additive				
 BLOCK I: Chaos Theory, Clausewitz, & Moltke Azar Gat, Chapter 6, "The Reaction against the Enlightenment," A History of Military Thought from the Enlightenment to the Cold War, pp. 141–57 This section situates Clausewitz in the context of the Counter- Enlightenment or German Movement and introduces some of the philosophical trends and ideas we talk about in class. Clausewitz, On War (Book I, Chapters 1–8, Book II, Chapters 5–6), pp. 75–123 and 156–74 This is the core Clausewitz theory and the portion of the book that best represents his finished thought. Read it extremely closely. Look at the various analogies and metaphors he uses. Pay attention to the "extremes" and reflect on what he means by the concept of an extreme. You may find it useful to look at http://csmt.uchicago.edu/glossary2004/dialectic.htm if you are not familiar with the philosophical concept of the dialectic. Optional: Vanya Eftimova Bellinger, Chapters 5, 9, and 11, Marie von Clausewitz: The Woman Behind the Making of On War Optional: John Shy, "Jomini," in Makers of Modern Strategy, pp. 143- 185 				
• Alan Beyerchen, "Clausewitz, Nonlinearity and the Unpredictability of War," in Thomas J. Czerwinski, <i>Coping with the Bounds: A Neo-</i>				

	Clausewitzian Primer
	 This is another, more detailed and broader, exposition of chaos theory, now with explicit reference to war, military theory, and, especially, Clausewitz. It specifically addresses On War, Book I, Chapter 1, which is assigned for the next block of this lesson. You may want to read that first, or at least have it handy when reading the Beyerchen.
	 Edward Lorenz, Chapters 1 and 4, <i>The Essence of Chaos</i> (Seattle, WA: Univ. of Washington Press, 2008) (Focus on the section that starts with "Searching" subhead and read until the end of the chapter). <i>Lorenz was a meteorologist who made some of the most important intellectual breakthroughs in the formation of chaos theory as a mathematical discipline. This reading has nothing to do with war in principle, but, rather, describes what was at the time a new way of looking at aspects of the world that had been supposed</i>
	previously to be rule-bound and predictable.
LESSON PLAN	 How does Clausewitz define, describe, and use the following concepts: <i>War as a duel and pair of wrestlers</i>. What is Clausewitz trying to tell us using these analogies? <i>Genius</i>. What is Clausewitz's concept of genius, and what does this concept tell us about Clausewitz's understanding of war? <i>Friction and fog of war</i>. What are the sources of friction and fog? To what extent can friction and fog be eliminated or reduced, if at all? <i>War by algebra</i>. What does Clausewitz mean by "war by algebra," and what is the central point he is trying to make about war? The role of "theory," "critical analysis," and "historical examples." <i>Critical analysis</i>: Its definition and role? <i>Historical examples</i>: What is the proper use of historical examples? The definition and role of "extremes" in understanding war. What does the discussion of theory, critical analysis, historical examples, and polarity/extremes tell us about how Clausewitz understands war?
	 3. Clausewitz's understanding of war. a. <i>The trinity:</i> "More than" a chameleon. What is Clausewitz's central idea in his discussion of the trinity and his use of the chameleon analogy? What does this central idea say about war?
	b. What is war and what is war not, in Clausewitz's mind?
	4. Purpose and means.
	a. What is (are) the purpose(s) of war and how is (are) purpose(s) related to means? Can there be multiple forms of combat? How? Why?

Lesson 5	August 3rd			
TOPIC	POLITICS & WAR: CLAUSEWITZ VS. MOLTKE			
GUEST FACULTY	GEN (Ret.) Stanley McChrystal			
PURPOSE	Reflect upon the correct relationship between military operations and high politics (or policy) in order to decide whether you believe that Clausewitz or Moltke had it right.			
OBJECTIVES	 How much can and should a political leader intervene in military operations? 1. Understand Clausewitz's views on the relationship between politics (policy) and military operations at every level. Are his views coherent or contradictory? 2. Evaluate Moltke's portrayal of Clausewitz's views (consider both the Moltke reading and the footnote in On War noted below). Did Moltke get it right? 3. Why was this dispute of such moment to Moltke? (Look to the Craig reading for this.) 4. Was Moltke wrong, or had Clausewitz simply failed to foresee the kind of challenge Moltke faced? 5. What does it mean to have a "system of war" or "war as a system?" 6. Explore the utility of reading the work of Helmuth von Moltke the Elder through the prism of nonlinearity, complexity, and chaos theory. 			
KEY TERMS	War as a system			
READINGS	 Morning: General McChrvstal For our speaker and week two lesson on US unconventional war: Stanley McChrystal, My Share of the Task, pp. 89–263 Students should begin this reading, focusing on the narrative of the creation of the Joint Special Operations Task Force and reflecting on how the principles embodied in that organization reflect the theories and history articulated in other lessons. 			
	Block I: Clausewitz on Politics and War			
	• Clausewitz, On War, pp. 61–71			
	 Notes by Clausewitz and his wife regarding the nature of the composition and the manner of its publication. This is extremely important front-matter. You need to understand how On War took the final form that it did and what aspects of it best reflected Clausewitz's most advanced thinking. Re-read Clausewitz, On War, pp. 75–99 (Book I, Chs. 1 and 2) Seriously, re-read them. There is no amount of re-reading of On War that will cease to be of interest. Clausewitz, On War, pp. 605–10 (Book VIII, Ch. 6, Part B) and 			
	• Clausewitz, <i>On War</i> , pp. 605–10 (Book VIII, Cn. 6, Part B) and especially see the note on p. 608			

	• This is short and vital—especially the footnote. We say again: READ THE FOOTNOTE!
	Block II: Moltke and Clausewitz
	 Clausewitz, Carl von Clausewitz: Two Letters on Strategy, pp. 1–21 (a portion of Clausewitz's letter to Roeder, December 22, 1827) This is an obscure, rarely discussed exposition of Clausewitz's thoughts, particularly relating to the topic of this lesson. Your understanding of the Clausewitzian understanding of the relationship between war and politics (and therefore of that question itself) is apt to be partial if you do not read this letter. Gordon A. Craig, The Politics of the Prussian Army, 1640–1945, pp. 180–216 An important brief overview of the history in question
	 Hajo Holborn, "The Prusso-German School: Moltke and the Rise of the General Staff," in <i>Makers of Modern Strategy</i>, pp. 281–95 This is a brief and brilliant essay on a phenomenally complex personality. The interplay between Moltke and Clausewitz requires careful examination. Reflect on the ways in which Moltke is a true Clausewitzian—and the ways in which he clearly is not. The following short excerpt from Moltke's writings may help clarify.
	Helmuth von Moltke, "War and Politics," in <i>Moltke on the Art of War: Selected Writings</i> , ed. Daniel J. Hughes, pp. 35–36
	• von Moltke, "On Strategy, 1871," in <i>Moltke on the Art of War</i> , pp. 44–47
	 Gunther Rothenberg, "Moltke, Schlieffen, and the Doctrine of Strategic Envelopment," in <i>Makers of Modern Strategy</i>, pp. 296– 310 (we will revisit the remainder of the article in the next lesson)
LESSON PLAN	Incorporate Books I, II, and VIII as well as the notes and letters into your answers.
	 1. War and its purpose. a. Once set, is a war's aim fixed? If so, why? If not, why not? b. What is the relationship between a war's aim and the means used to achieve that aim?
	c. What is the relationship between policy and military action at each level of war?
	 Between the political and the military.
	a. How are the roles of the political and military leaders differentiated, if at all?
	3. Theory and practice.

	Does Clausewitz suggest that from the start one must conceive of war as a whole or just conceive of the first steps then adapt? Why does he take the position that he does?
	What does "defeat" mean? The doctrinal definition and how Clausewitz discusses it.
	What is the relationship between absolute and real war? Why does this relationship matter?
	In the end, is Clausewitz's theory of war coherent and consistent –either, both?

Lesson 6	August 4th				
TOPIC	RAILROADS & RIFLES				
PURPOSE	Understand how changes in technology generated (required) transformations in military organization, doctrine, and theory.				
OBJECTIVES	How does a revolutionary new technology change the conduct of war? And how does any large organization adopt a revolutionary new technology?				
KEY TERMS					
MULTIMEDIA	 Video: Understanding Railroads The Railroad Journey and the Industrial Revolution: Crash Course World History 214 <u>https://youtu.be/GYAk5jCTQ3s</u> 				
READINGS	 Dennis Showalter, <i>Railroads and Rifles</i>, Part One (Railroads), pp. 19–72 This is a long, intricate history of a period you are not likely familiar with at all. But you have already read about Moltke—who he was, where he came from, and what he did—and you have read some of his own writing. You have also read a lot about the Napoleonic Wars and, particularly, the different lessons contemporaries drew from them. This reading should help you reflect on the challenges and opportunities offered to military theorists and practitioners by changing technology. How can one tell if a new technology might revolutionize warfare? How can one guess about how to use that technology to do so? How do military requirements interact with economic needs to shape the evolution of both military and civilian technology? What role do individuals play in generating disjunctive change? Review the two Makers of Modern Strategy chapters on Moltke the Elder from previous lessons. Gen. Gordon R. Sullivan and Col. James M. Dubik, Envisioning Future Warfare, 1995 https://www.armyupress.army.mil/Portals/7/combat-studies-institute/csi-books/sullivan.pdf James M. Dubik, <i>The Army's "Twofer": The Dual Role of the Interim Force</i>, October 2001 https://www.ausa.org/sites/default/files/LWP-39-The-Armys-Twofer-The-Dual-Role-of-the-Interim-Force.pdf Gen. (Ret.) Gordon Sullivan and Col. (Ret.) Michael Harper, Hope is Not a Method, pp. 9–21, 39–42, 49–54, 77–82, 147–49, 155–71, 182–87, and 236–41 				
LESSON	Part 1.				
PLAN & STUDY	1. Understand the chronology of railroad development.				

	a. Read the Showalter piece. Come to class having developed own chronology . As you read, list the date of every event marking the progress of the railroads or an obstacle to that progress. List also the key person(s) associated with that event and what they did to advance or obstruct the development of the railroad as well as why they did so.
2.	Come to class also being able to describe the different kinds of actions that moved railroads from a concept to a reality—i.e. the difference between having an idea, selling that idea, proving the idea, adopting the idea, institutionalizing the idea, and adapting the idea.
	a. Watch "The Railroad Journey and the Industrial Revolution." Try to figure out what "Machines make their own laws" might mean. Try also to figure out what understanding railroads "as a system" might mean.
	 b. Go back through your chronology. Identify point at which "having" the idea of a rail system began and ended. Do the same with "selling, proving, adopting, institutionalizing, and adapting." Identify also the overlap between these activities as well as which activities were sequential and which were simultaneous?
	 c. Look at the people associated with each of these activities. List their strengths and weaknesses. What characteristics allowed them to succeed or fail?
3.	Be prepared to brief your chronology and the categories within at the start of class.
4.	What exactly does "institutionalization" mean in the military context? What are the conditions that allow one to say with confidence that a military has developed a new capability?
5.	Explain, using the railroad example the difference between the rate of technological advance and the rate of human and organizational adaptation. Think about this difference and be prepared to explain it in your own wordsusing the railroad example.
	t 2. To be discussed during this lesson or (more likely based on VVIP t) on August 3 (US conventional warfare from 1970s-Today).
6.	Apply the ideas contained in the discussion of railroads to the Army's adoption of digital technologies in the 1990s.

GUIDE

a.	Describe, in your own words, the path that Chief of Staff of the
	US Army, Gen. Gordon Sullivan wanted to put the army on.
	Why did he think that path was necessary? What was "forcing"
	the army to change?
b.	How would Gen. Sullivan answer question about
	institutionalization: What exactly does "institutionalization"
	mean in the military context? What are the conditions that allow
	one to say with confidence that a military has developed a new
	capability?
c.	List, and be prepared to discuss, the similarities and differences
	between the railroad example and the digitization example with
	respect to having an idea, selling that idea, proving the idea,
	adopting the idea, institutionalizing the idea, and adapting the
	idea.
d.	Think forward: what recent technological innovations as well as
	those on the horizon may affect military operations? What
	insights from the railroad and digitalization examples might be
	helpful in adapting to these innovations?

	August 5th
PURPOSE	Reading Day

Lesson 7	August 6th
TOPIC	SCHLIEFFEN TO STALEMATE
PURPOSE	 Decide which of the following are true: a. Trench warfare stalemate resulted from the stupidity of generals. b. Stalemate was the inevitable result of the military technology of the time. c. The German attack in 1914 failed because of Moltke's changes to Schlieffen's plan. d. The 1914 attack failed because Schlieffen designed it mechanistically and in disregard of Moltke's dictum that no plan survives first contact with the enemy. e. The attack failed because Schlieffen sought Napoleonic-style decisive victories in an era in which they were no longer possible. Why did the war stalemate on the Western Front? How did the various actors try to overcome the stalemate?
OBJECTIVES	3. How did the various actors try to overcome the stalemate?
UDJEC IIVES	 Planning vs. execution; is war an engineering problem? <i>World War I represented a failure at the tactical level—or at the operational level?—or at the strategic level?</i>
KEY TERMS	Motorized, Mechanized, Mobility; Trench warfare (suite of terms); Infiltration tactics; Michael Offensive
MULTIMEDIA	Videos:
	 Trench Warfare
	https://youtu.be/NtfOpb1SG34
	 German Tactics for 1918 Spring Offensive The Great War Special
	https://www.youtube.com/watch?v=wMfQXPya9zs
	• Tank Development in World War 1 The Great War Special
	https://www.youtube.com/watch?v=zjj13U-j0_g
READINGS	BLOCK I: Schlieffen and the First Campaign of World War I
	• Terence Zuber, "1920: Kuhl Reveals the Schlieffen Plan," <i>German War Planning</i> , <i>1891–1914</i> , pp. 265–71
	• Gunther Rothenberg, "Moltke, Schlieffen, and the Doctrine of Strategic Envelopment," in <i>Makers of Modern Strategy</i> , pp. 310–325 (pp. 296-310 in previous lesson).
	 Another brilliant essay from one of the best compilations of writings about war ever produced. Pay careful attention—there are TWO Helmuth von Moltkes. You have been reading about Helmuth von Moltke the Elder, who introduced railway

mobilization and the general staff system to the Prussian Army and led that army through the Wars of German Unification. *Now you'll meet his nephew, Helmuth yon Moltke the Younger,* who will occupy his uncle's position as Germany approaches and enters World War I. Use this essay to reflect on all of the theoretical and practical debates swirling between Clausewitz, Moltke the Elder, Jomini, and Schlieffen about the nature of war as art, science, or a hybrid. James L. Stokesbury, A Short History of World War I, pp. 22–56 (through • the First Marne). *Recommended as overview; not required—but make sure* you understand what happened in 1914 through the First Battle of the Marne Zuber, "The 'Schlieffen' Plan," German War Planning, 1891–1914: Sources and Interpretations, pp. 187–204 (Read closely and with a map) • This is the closest we can get to the "Schlieffen Plan," which was destroyed along with most of the documents relating to Germany's pre-war planning in a vain attempt to absolve Germany of responsibility for the war. This is NOT the actual plan, however. It is a concept of operations, and a preliminary one. Understand how it was supposed to work. Try to identify logical gaps and potential problems within this document. Then reflect on how much Moltke the Younger was to blame for the "failure" of the "Schlieffen Plan." Finally, think about what this debate says about the nature of war. Timothy Lupfer, The Dynamics of Doctrine: The Changes in German Tactical Doctrine During the First World War, Combat Studies Institute, Fort Leavenworth, Kansas, 1981 (58 pages) https://www.armyupress.army.mil/Portals/7/combat-studies-institute/csibooks/leavenworth-papers-4-the-dynamics-of-doctrine.pdf • This is the only reading this lesson that describes the nature and challenges of trench warfare— understanding that is more important

than mastering the details of infiltration tactics.

Lesson 8	August 7th
TOPIC	ARMORED WARFARE & OPERATIONAL ART
PURPOSE	Understand the evolution of operational art as a distinct branch of military theory and practice.
OBJECTIVES	Learning from success and failure: How did the combatants of WWI try to envision the next war and adapt their forces to fight it?
KEY TERMS	Blitzkrieg, Operational Art, Front, Deep battle
MULTIMEDIA	 Videos: What was the Blitzkrieg? The Blitzkrieg Explained as Short as Possible
READINGS	 "Coping with Trench-Warfare Stalemate" This block is pivotal for understanding the evolution of armored warfare, so do not skip it. Make sure that you read the Lupfer without fail. If we do not get to it today, then skim to refresh your memory on it during the reading day tomorrow so that you have it in your mind after reading day. David Glantz, Chapters 2, 4, and 5, "The Nature of Operational Art," "The Formative Years of Soviet Operational Art," and "The Great Patriotic War and the Maturation of Operational Art," Soviet Military Operational Art: In Pursuit of Deep Battle, (New York: Frank Cass, 1991) Make sure you get to this reading. The Germans took armored warfare and operational art one way—the Soviets took it somewhere rather different. Make sure you can sense the differences. J. F. C. Fuller, "The Application of Recent Developments in Mechanics and Other Scientific Knowledge to Preparation and Training for Future War on Land," Gold Medal (Military) Prize Essay in the Journal of the Royal United Services Institute, 1919 https://rusi.org/publication/rusi-journal/war-land-application-recent- developments-mechanics-and-other-scientific J. F. C. Fuller, "Plan 1919" Michael Geyer, Chapter 19, "German Strategy in the Age of Machine Warfare, 1914–1945," in Makers of Modern Strategy

in Euro	pe, 1899–1940
0	Second half of Chapter 6, the Interwar Years, pp. 193–213 (from
	"Germany: Doctrine and Developments") as well as Chapter 8,
	('Operational Art Reborn''), pp. 251-83

Lesson 9	August 8th
TOPIC	AIRPOWER—DOUHET TO WARDEN FROM THE ORIGINS OF AIR POWER THEORY TO ITS MODERN STATE
GUEST FACULTY	GEN (Ret.) Curtis Scaparrotti
PURPOSE	Understand the terms and concepts of air power theory as it evolved from early in the 20th century to the present.
OBJECTIVES	 The search for the silver bullet: Can we fight by air alone? <i>Understand the rationale for seeing airpower as fundamentally revolutionary in the first half of the 20th Century.</i> Evaluate the nature of the debate over the right relationship between airpower and other forms of military power in that time. Master the concept of "center of gravity" as it is used in the context of airpower theory. Compare and contrast the airpower view of the enemy (and how to operate against him) with the view presented by operational art theory. Consider both operational art and airpower theory in the context of nonlinearity, complexity, and chaos theory.
KEY TERMS	Air power; Strategic bombing; Center of gravity; Air superiority; Air supremacy; Close air support; Parallel warfare
MULTIMEDIA	 Videos: Victory Through Air Power: Animated History of Aviation (1942) <u>https://youtu.be/tUeKeN9bXSE</u> Airpower in WWI <u>https://www.youtube.com/watch?v=s1oxX4Q6ndo</u> Tactical and Strategic Power in WWII <u>https://www.youtube.com/watch?v=kTir8MxxtFk</u> Airpower in the Korean War <u>https://www.youtube.com/watch?v=nWbZYp7PY24</u> Airpower in Vietnam <u>https://www.youtube.com/watch?v=wK2BHLMH32Q</u>

READINGS	 David Deptula, "Defining Rapid Decisive Operations: Parallel Warfare," in <i>Effects-Based Operations: Changes in the Nature of War</i>, pp. 3–7 http://www.ausairpower.net/PDF-A/AEF-AFA-Effect-Based-Operations- D.A.Deptula-2001.pdf David MacIsaac, "Voices from the Central Blue: The Air Power Theorists," <i>Makers of Modern Strategy</i>, Chapter 21, pp. 624–47 John Warden, "The Air Campaign in Retrospect," <i>The Air Campaign</i> (entire) This is a long reading, but students should focus on Chs. 1, 2, 10, "The Air Campaign in Retrospect." NOT REQUIRED BUT HIGHLY RECOMMENDED FOR YOUR FUTURE EXPLORATION: John F. Boyd's briefings are available at https://www.airuniversity.af.edu/Portals/10/AUPress/Books/B 0151_Boyd_Dise ourse_Winning_Losing.PDF These readings are seminal works shaping the evolution of <i>American airpower theory—and, thus, of the world's airpower theory. The recommended papers are:</i> 41.5 – Abstract 42 – Pattern 43 – The Strategic Game of ? and ? 45 - Winning and Losing
LESSON PLAN	 Airpower and airpower alone? The first theorists, the first adopters, strategic bombing, the later theorists/adopters Parallel Warfare What would Clausewitz say?

Lesson 10	August 9th
TOPIC	US CONVENTIONAL WARFARE, 1970S-TODAY
GUEST CO- INSTRUCTORS	GEN (Ret.) Curtis Scaparrotti
GUEST FACULTY	LT GEN (Ret.) H.R. McMaster
PURPOSE	The wars we want to fight: how the US prepared for, won, and learned from the Gulf War
OBJECTIVES	 Understand the American theory and practice of conventional warfare at the end of the 20th century. Examine different approaches to the problem of designing military doctrine based on observation of contemporary wars and the study of adversary intentions and theory. How does AirLand Battle differ from Soviet Deep Battle? Evaluate competing explanations for the outcome of the first Gulf War and their implications for the future of American war-fighting. Consider the continuities and discontinuities of warfare over many changes in technology throughout the 20th century. Evaluate the nature of the debate over the right relationship between airpower and other forms of military power. Contrast the experience of the Gulf War with the other US military deployments of the 1990s.
KEY TERMS	Active Defense; Air-Land Battle
MULTIMEDIA	 Videos: The 1st Gulf War, Battle of 73 Easting <u>https://www.youtube.com/watch?v=tJNk7DcFIkk</u> Airpower in the 1st Gulf War <u>https://www.youtube.com/watch?v=LNH-kCdtEaw</u>
READINGS	Douglas W. Skinner, <i>Airland Battle Doctrine</i> , September 1988
	 https://apps.dtic.mil/dtic/tr/fulltext/u2/a202888.pdf John Warden, Epilogue, <i>The Air Campaign</i> Thomas A. Keaney and Eliot A. Cohen, Summary Report, pp. 1–27, ("What happened?"), and 235–53 ("Was Desert Storm a Revolution in Warfare?"), <i>Gulf War Air Power Survey</i> Stephen Biddle, "Victory Misunderstood: What the Gulf War Tells Us about the Future of Conflict," 1996 H.R. McMaster, "Eagle Troop, Second Squadron, Second Armored Cavalry Regiment," <i>The Bridge</i>, February 26, 2016 H.R. McMaster, "What We Learned: From the Battle of 73 Easting" Stephen D. Biddle, <i>Commentary on "Victory Misunderstood"</i>

LESSON PLAN | MORNING and EARLY AFTERNOON

1. Examine different approaches to the problem of designing military doctrine
based on observation of contemporary wars and the study of adversary
intentions and theory.
2. How does AirLand Battle differ from Soviet Deep Battle?
3. Modernization in 1990sGulf War Air Campaign if not covered above.
4. The Gulf War and the discussion of ground war vs. airpower triumphalism
(Warden, Deptula, and Biddle readings)
5. The 1990s unconventional wars with Gen. Scaparrotti
AFTERNOON II
1. Gulf War and Battle of 73 Easting

Lesson 11	August 10th
TOPIC	US UNCONVENTIONAL WAR
GUEST CO- INSTRUCTORS	GEN (Ret.) Curtis Scaparrotti
PURPOSE	Learn how non-state armed groups evolved to fight the US
OBJECTIVES	 Understand why the Iraq War became an insurgency and how the US recognized and adapted to the insurgency over time. Understand core elements of the US counterinsurgency approach.
MULTIMEDIA	 The Surge: The Whole Story, Directed by Bruce Van Dusen. United States: Brainstorm Media, 2009 Watch here: <u>https://www.amazon.com/Surge-Whole-Bruce-Van-Dusen/dp/B002W8SRPI</u>
READINGS	 George Packer, "The Lesson of Tal Afar," <i>The New Yorker</i>, April 10, 2006 H.R. McMaster, "The Human Element: When Gadgetry Becomes Strategy," <i>World Affairs</i> 171, no. 3 (2009): 31–43 <u>https://www.jstor.org/stable/20672872</u> H.R. McMaster, <i>Assessment of the Counterinsurgency Effort in Iraq</i> (October 2003) US Department of the Army, <i>Counterinsurgency</i>, Army Field Manual FM 3-24 (2006), Chapter 1 Kimberly Kagan, <i>The Surge: A Military History</i> (New York, NY: Encounter Books, 2008)
LESSON PLAN	 MORNING and AFTERNOON I Iraq: The war we wanted to fight and the war we got. The discussion of how AQI and the Shi'a militias took advantage of the complex ethno-sectarian conflict and state collapse to evolve ways of fighting against the US and its Iraqi allies.

Lesson 12	August 11th
TOPIC	RESPONSES TO US CAPABILITIES
GUEST CO- INSTRUCTORS	GEN (Ret.) Curtis Scaparrotti
GUEST FACULTY	GEN (Ret.) David Petraeus
PURPOSE	Understand how state adversaries have attempted to circumvent US conventional superiority
OBJECTIVES	 Does Russia seek to fight the US on its own terms? If so, how? If not, how are the Russians trying to accomplish their objectives? Does great power conflict require conventional warfare? Where is the boundary between competition and conflict?
MULTIMEDIA	• For GEN (R) David Petraeus's visit, watch 2-3 of the videos <u>found here</u> and read the transcript for the rest of the videos, available on the site or in this channel's files.
READINGS	 Jim Scuitto, <i>The Shadow War: Inside Russia's and China's Secret</i> <i>War to Defeat America</i> (New York: Harper/Harper Collins, 2019) Nataliya Bugayova, "Putin's Offset: The Kremlin's Geopolitical Adaptations Since 2014," <i>Institute for the Study of War</i>, September 2020 Mason Clark, "Russian Hybrid Warfare," <i>Institute for the Study of</i> <i>War</i>, September 2020 John Allen, Frederick Ben Hodges, Julian Lindley-French, <i>Future War and</i> <i>the Defence of Europe</i> (Oxford, England: Oxford University Press, 2021), "Russia and Europe's northern and eastern flanks"

Lesson 13	August 12 th
TOPIC	THINKING ABOUT THE FUTURE OF WAR
GUEST CO- INSTRUCTORS	GEN (Ret.) Curtis Scaparrotti
GUEST FACULTY	LT GEN (Ret.) Michael Nagata GEN (Ret.) John Allen
PURPOSE	What have we learned?
OBJECTIVES	 How can one intelligently speak about the future of war? What can the study of military history teach us? Key takeaways and conclusions
MULTIMEDIA	• Video: ARMY TRADOC G-2, The Future Operating Environment https://m.youtube.com/watch?v=0VsikOe wg&t=0s&index=11&list=PLx2Zn7hPXT7cnQwhyI5YybdgOJdlorbo1%2 2
READINGS	 The Operational Environment and the Changing Character of Warfare, TRADOC Pamphlet 525-92, October 2019 https://adminpubs.tradoc.army.mil/pamphlets/TP525-92.pdf H.R. McMaster, "On War: Lessons to be Learned," Survival 50:1 (2008) https://www.tandfonline.com/doi/full/10.1080/00396330801899439 H.R. McMaster, Continuity & Change: The Army Operating Concept and Clear Thinking About Future of War, March-April 2015 https://www.armyupress.army.mil/Portals/7/military- review/Archives/English/MilitaryReview_20150430_art005.pdf H.R. McMaster, "The Pipe Dream of Easy War," The New York Times, July 20, 2013 Michael Howard, "The Use and Abuse of Military History," Royal United Services Institution Journal 107:625 (1962) https://www.tandfonline.com/doi/abs/10.1080/03071846209423478?journ alCode=rusi19 John Allen, Frederick Ben Hodges, Julian Lindley-French, Future War and the Defence of Europe (Oxford, England: Oxford University Press, 2021), "Scenario 1," "Introduction," "Could NATO (still) defend Europe?", "Hyperwar: Europe's digital and nuclear flanks," and "Defending Europe" US Department of the Army, Chief of Staff Paper #1, Army Multi-Domain Transformation: Ready to Win in Competition and Conflict (March 2021) Theresa Hitchens, "The Joint Warfighting Concept Failed, Until It Focused on Space and Cyber," Breaking Defense, July 26, 2021

	 Theresa Hitchens, "Digital Design Revolution Key To All Domain Ops: Air & Space Officials Say," <i>Breaking Defense</i>, July 9, 2021 H.R. McMaster, "How China Sees the World and How We Should See China," <i>The Atlantic</i>, May 2020
LESSON PLAN	 MORNING: How to think about the future of war? Revisiting several key discussions from earlier in the course: Clausewitz, Napoleon, Railroad and Rifles, Interwar Modernization, Digitization.