

Future Warfare Syllabus

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LAND WARFARE AND AUTONOMOUS GROUND DOMINANCE

- 1) Autonomous Infantry: The End of the Human Rifleman? – Edge-inference microrobots using SLAM, EW-hardened mesh, and loiter integration prosecute room-to-room fights with superhuman tempo and zero casualty tolerance.
- 2) Uncrewed Armor: Agile, Soft-Skinned, and Swarm-Backed – Low-signature hulls trade mass for speed, active protection, and drone screens, surviving precision fires by maneuver, deception, and sacrificial decoys.
- 3) Urban Warfare in the Drone Era: Verticality, Sensors, and Collapse – 3D kill-webs fuse thermal lidar, acoustic nets, and micro-UAS to collapse city blocks by targeting power, comms, and choke points—not platoons.
- 4) Smart Mines, Lethal Loiterers, and Terraforming the Battlefield – Programmable, IFF-aware munitions with geofencing and soil-energy harvesters turn maneuver into a solvable constraint problem for the attacker.
- 5) Robotic Combat Engineering and Terraform Tactics – Autonomous sappers print berms and culverts from local fill, emplace deception infrastructure, and cut breaching lanes under fire with throwaway bulldozer-bots.
- 6) Directed Energy Weapons in Ground Combat – GaN lasers and pulsed microwaves meet the hard math of beam control, thermal management, and power density to fry swarms at tactical ranges.

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AIRPOWER REINVENTED

- 7) AI Dogfighting and the Rise of Algorithmic Aces – RL agents fly beyond human envelopes with online intent modeling, pulling post-stall geometries that turn kinematics into code.
- 8) Hypersonic Platforms: Strike in Minutes, Not Hours – Scramjets and boost-glide vehicles

juggle ablation, blackout, and ISR cueing to deliver globe-spanning, time-on-target salvos.
- 9) Swarming Drones and the End of the Airframe – Thousands of attritable flyers act as a reconfigurable “software airframe,” assigning sensors and effectors at runtime to survive attrition.
- 10) Electronic Warfare and Air Denial in Saturated Skies – DRFM deceit, ML spectrum maneuver, and navigation warfare corrupt sensor fusion itself, not just the signals.
- 11) Persistent Air Presence: High-Altitude Platforms and Balloonships – Solar HAPS and steerable super-pressure balloons knit continent-scale antenna farms with weeks-long dwell at pennies per flight hour.
- 12) Air Mobility: Autonomous VTOLs and the Post-Helicopter Era – Distributed electric propulsion, cargo pods, and AI convoying move

tonnage through contested corridors without pilots or predictable routes.

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NAVAL POWER IN A TRANSPARENT OCEAN

13) Ghost Fleets: Uncrewed Surface Combatants and Autonomous Arsenals – Cheap, quiet USVs with modular missile pallets and self-healing networks saturate sea lanes and never need shore leave.

14) Submarines in the Age of Persistent Ocean Sensing – With quantum mags and wide-aperture hydrophones eroding stealth, subs pivot to ultra-slow biomimetic propulsion and decoy ecologies.

15) Seaborne Drone Swarms and Littoral Dominance – Wave-riding USVs, UUV wolfpacks, and shore-launched micro-UAS fuse into cross-domain kill chains that lock down the surf zone.

16) Hypersonic Ship Killers and the End of Carrier Primacy? – Terminal seekers, multi-axis salvos, and AI midcourse retargeting push Aegis and CIWS past saturation, forcing stand-off or stealth.

17) Floating Forward Bases and Amphibious Robotics – Semi-submersible mobile bases host additive repair shops and amphibious swarms that turn coastlines into launch lattices.

18) Underwater Infrastructure Warfare: Pipelines, Cables, and Kill Zones – Clamp-on AUV

saboteurs and custodial counter-UUVs make the seabed a permanent front for energy and data choke points.

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SPACE AND NEAR-SPACE COMBAT

19) Orbital Combat and Satellite Stalking – RPO-capable microsats with plume-less thrusters play

tug-and-nudge games in crowded shells while pretending to be debris.

20) Co-Orbital ASAT Systems and the New High Ground – Grapplers, kinetic darts, and laser bloom meet debris ethics and escalation ladders that start in silence.

21) Cislunar Logistics and Military Moonbases – ISRU, propellant depots, and Lagrange waystations create a just-in-time delta-v economy for deep-space operations.

22) Stratospheric Warfare: Balloons, Gliders, and HALE Drones – Platforms loiter between SAMs and ASATs, providing ISR and relay while surfing global wind maps like data kites.

23) Orbital Firepower: Kinetic Bombardment and “Rods from God” – We separate myth from math on tungsten rods-orbital mechanics, reentry heating, CEP, and treaty reality.

24) Space-Based ISR and Real-Time Global Targeting – Hyperspectral constellations, taskable SAR, and RF geolocation deliver sub-minute revisit and machine-speed cue-to-shoot.

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CYBER, AI, AND DIGITAL DOMINANCE

25) Cognitive Warfare and Civilian Infrastructure Targeting – Target populations by twisting utility knobs-algorithms induce rolling blackouts, traffic chaos, and info cascades without a shot fired.

26) Kill Chain Automation: AI-Run Wars and Preemptive Logic – Machine-

speed OODA loops, time-locks, and auto-retaliation require engineered friction to prevent flash wars.

27) Quantum Warfare: Encryption, Jamming, and Advantage Windows – Post-quantum crypto, quantum radar mirages, and the tactical sprint to exploit-and close-temporary asymmetries.

28) Deepfakes, Counter-Deception, and Synthetic Propaganda – LLM persona farms, speech-cloned leaders, and watermark-breakers duel in narrative battles measured in minutes.

29) Digital Camouflage: Erasing Assets from the Network – Signature reduction becomes data hygiene: spoofed inventories, fake maintenance logs, and network decoys that soak targeting AIs.

30) Cyber Resilience and Digital Fortresses – Zero-trust at war tempo with moving-target defense, self-healing fabrics, and last-ditch air-gapped kill switches that actually work.

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BIOWARFARE, HUMAN ENHANCEMENT, AND THE COGNITIVE FRONT

31) Pharmacologic Superiority and Field-Ready Neurohacking – Wakefulness stacks, stress blunters, and memory-consolidation drugs shift cognition, risk appetite, and command reliability.

32) Genetic Engineering of Soldiers: Realities and Red Lines – CRISPR myostatin edits and disease resistance meet consent, heritability, and off-target drift in combat populations.

33) Brain-Computer Interfaces and Thought-Directed Combat Systems – Noninvasive BCIs and peripheral-nerve interfaces enable silent C2 and weapon cueing with jamming-resistant intent signals.

34) Neuroeconomic Warfare: Shaping Decisions, Not Just Targets – Weaponized defaults, delay, and scarcity tune incentives and cognitive load across populations and staffs.

35) Weaponized Behavior: From Mosquitoes to Microbiomes – Engineered vectors, odor plumes, and gut-brain modulation degrade readiness and will with deniable fingerprints.

36) The Post-Human Combatant: Biohybrids, Synths, and Rogue Evolution – Chimeric wetware, drone symbionts, and self-evolving battlefield AIs blur combatant categories-and law-to the breaking point.

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