

UNICORN learning program: Syllabus

A free learning program aimed at developing **climate realism**, **energy systems literacy**, and **narrative awareness**. Available at www.cenUNICORN.com.

A comprehensive set of stand-alone modules that are coherent together in a distinct framework...UNICORN

Uncertainty – the science of climate change in the earth’s *past* and *present* vs. the modeling of climate crisis in a virtual *future*

Nuclear Power – an ultra-energy-dense future for human flourishing

Intermittent Wind & Solar – weather-dependent so systemically unreliable

China and the non-Western world – it’s not just about us any more

O is for Adapt – which just goes to show how adaptable we humans can be

Reassure – the climate anxious need our help

Narrative of climate crisis – its *construction* in academia, *preaching* by the media, and *realization* through energy policy

You can start at U1 and work your way through to Na9 or choose those modules of most interest; average module length is 13 minutes.

The modules are arranged in sets – usually a set of three. Each set has an introductory slide at the beginning and a summary slide at the end.

For each module, please find below the title, length, topics, and takeaway.

Uncertain Climate Past – science

U1	Paleoclimate Record	<i>Topics:</i> INTRO; proxies; ppm; inexact science; over 550 million years – CO2 levels trend down, climate temperature cycles up and down; current ice age – historically low CO2 and temperature.
5 slides; 9 mins		Takeaway: Evidence from paleoclimate science shows that over hundreds of millions of years, the earth's climate temperature varies independently of atmospheric CO2...and CO2 today is a fraction of past levels.
U2	Ice Core Analysis	<i>Topics:</i> ice age; Greenland cores – sudden temperature changes (D-O events); recent 1.1°C increase; Antarctica cores – glacials and interglacials (Milankovitch); chemistry of oceans
4 slides; 9 mins		Takeaway: Evidence from ice cores shows that over hundreds of thousands of years, climate temperature drives the amount of CO2 in the atmosphere...not the other way around.
U3	Holocene Observations	<i>Topics:</i> Montanna's glaciers; warmth for human development; Holocene Climatic Optimum and rapid rises in temperature; ice and tree line movements; SUMMARY.
5 slides; 12 mins		Takeaway: Observations from our 10,000-year-old Holocene interglacial show evidence of the usual ups and downs in climate temperature, with no influence from CO2...and it was warmer than today when we started farming.

Uncertain Climate Present – science

U4	Unfortunate Coincidence	<i>Topics:</i> INTRO; Medieval Warm Period, Little Ice Age, Modern Warm Period; Alaska's Glacier Bay and Central England; 1910-1940 warming, global cooling scare, satellite era warming.
6 slides; 13 mins		Takeaway: Global warming in the Modern Warm Period coincides with Industrialization...even so, a theory of CO2 as the control knob for climate temperature is still not plausible.
U5	The Physics of CO2	<i>Topics:</i> the sun; greenhouse gases and heat trapping; logarithmic effect, infrared saturation; 40 billion tons of CO2 pa; extra 1°C of warming with doubling of CO2 – guess mid C22.
4 slides; 11 mins		Takeaway: The greenhouse gas effect of CO2 is real, but relatively small, and reducing due to infrared saturation...our emissions cannot cause runaway global warming – physics.
U6	Urbanization	<i>Topics:</i> urban heat island (UHI) effect; US voters influenced by local urban warming; concrete control knob for local climate temperature; energy-rich Singapore as UHI; SUMMARY.
5 slides; 10 mins		Takeaway: Heat-absorbing concrete jungles (urban areas) have warmed more than greener rural areas...reflected in the way people vote in the US but not in Singapore.

Uncertain Climate Future – modelling

U7	FOGy Climate Models	<i>Topics:</i> INTRO; list of climate influences and disciplines; cancel out natural variation – CO2 control knob algorithm; not reality 1/3; IPCC warning; FOG spelled out
5 slides; 13 mins		Takeaway: Climate realists can see through the FOG, separating scientific Facts from subjective Opinion, and algorithmic Guesswork...and they know that predictions about a non-linear chaotic system are never data.
U8	Implausible + Probabilistic	<i>Topics:</i> simplified virtual climate models – two levers: 1) CO2 scenarios, RCP8.5 - Business as Usual; 2) feedbacks, clouds the big one, different effects – not well understood
5 slides; 10 mins		Takeaway: Computer simulations with implausible CO2 scenarios and probabilistic clouds produce exaggerated virtual climate temperature predictions...in reality, trends in real cloud cover are uncertain.
U9	Virtual vs. Real Climate	<i>Topics:</i> climate models cannot hindcast reality but can be tuned to it; CMIP-5 models running hot - Christy testimony; CMIP-6 not improved; seven reasons to disbelieve; SUMMARY
6 slides; 14 mins		Takeaway: Tests of climate models confirm the IPCC's definition of the earth's climate: a “non-linear chaotic system, and therefore that the long-term prediction of future climate states is not possible.”

Nuclear Power

N1	Energy Density	<i>Topics:</i> INTRO; wood & dung, fossil fuels, hydro & geothermal; uranium 16,000x coal; France grid decarbonization; potential for electricity expansion; land, materials, CO2 impact.
5 slides; 8 mins		<i>Takeaway:</i> Given that ultra-energy-dense nuclear power means an ultra-low environmental impact, it's odd that we in the West do not have an accelerated nuclear program.
N2	Anti-Nuclear Success	<i>Topics:</i> better problems; safety - radiation, explosion, meltdown; waste - football field's worth, dry cask process, reprocessing value, 600-year decay; Calder Hall, \$30m; Governor Brown.
5 slides; 13 mins		<i>Takeaway:</i> Nuclear safety is second to none, and the radioactive waste is manageable...it is weaponized regulation that blocks nuclear power.
N3	Green Belief	<i>Topics:</i> humans adapt their environment at scale; The Population Bomb - Green prophets; Green aim is a return to energy poverty; Kuznets curve - conservationism; tipping points; SUMMARY.
5 slides; 14 mins		<i>Takeaway:</i> In the moral judgment of the Green, humans are a species unfit for nuclear power...they lead us back towards the energy poverty of nature from whence we came.

Intermittent Wind & Solar

I1	Wind & Solar Economics	<i>Topics:</i> INTRO; hidden costs – transmission, mandates; duplication with reliable (fossil-fueled) backup or grid-scale storage (LDES) – overbuild and batteries.
7 slides; 16 mins		<i>Takeaway:</i> Unreliable Wind & Solar carry the duplication costs of fossil-fueled backup...or the even more expensive option of overbuild capacity and not-yet-invented grid-scale batteries.
I2	Wind & Solar Environment	<i>Topics:</i> wind land use calculations; solar and battery – exponential growth in materials mining and processing; supply and waste consideration; wind and solar subsidy farms.
4 slides; 8 mins		<i>Takeaway:</i> An impossible amount of land for wind; fantasy-level quantities of raw materials for solar...the environmental impact of Wind & Solar is worse than any other energy system.
I3	Benefits of CO2	<i>Topics:</i> global greening – crop yields; photosynthesis and glucose; human flourishing hockey sticks; CO2 emissions vs. GDP; combine harvesters and other ff products; child mortality; SUMMARY.
6 slides; 14 mins		<i>Takeaway:</i> Abundant, cheap, and reliable energy brings human flourishing – more knowledge, wealth, and health...plus, with fossil-fueled energy, a greening planet too.

China and the non-Western world

C1	China and India	<i>Topics:</i> INTRO; China's postdated promise; China nuclear is growing but mostly coal; India not as developed, even more coal-dependent; non-Western CO2 emissions dominant.
5 slides; 9 mins		<i>Takeaway:</i> Economic growth and development are much higher priorities for China and India than decarbonization...the geopolitical reality is that humanity's CO2 emissions are set to continue.
C2	Eco-colonialism	<i>Topics:</i> Eco-colonialists in Africa, stopping energy/GDP development; agencies shifting focus from poverty; African and Westerner objection; not about us; guess 850ppm peak; SUMMARY.
5 slides; 10 mins		<i>Takeaway:</i> Western eco-colonialism in the developing world is being resisted...realistically, today's World Bank and IMF do not enjoy the power differentials of past imperialists.

O is for Adapt – showing just how adaptable we humans can be

O1	Human Adaption	<i>Topics:</i> INTRO; Chicago 1850s; Holland airport; southern Vietnam; 95/99% drop in climate-related deaths; urban adaption; Lagos canals; Shellenberger – what determines climate deaths.
5 slides; 11 mins		<i>Takeaway:</i> We humans have an incredible track record of adapting to whatever the earth's climate throws at us...we are especially adaptable with fossil-fueled energy and machines.
O2	Future Adaption	<i>Topics:</i> glacial to interglacial sea level rise vs. today's; Arctic ice concerns; West Antarctic Ice shelf – Thwaites Glacier; accretion in Maldives, subsidence in Miami; tropic to pole temperature gradient.
5 slides; 11 mins		<i>Takeaway:</i> Climate temperature and sea level changes are not global, so resources should be focused on local adaption for those affected the most.
O3	Globalist Ambition	<i>Topics:</i> MDG global problem-solving success to SDG absurdity; WEF; hubris; Globalist quotes; Lomborg – climate calculations, GDP growth delayed; SUMMARY
5 slides; 12 mins		<i>Takeaway:</i> When the hubris of climate control meets Globalist ambition, the common sense of local adaption to local climate impact is lost...and trillions are wasted.

Reassuring the climate anxious

R1	Reassuring Climate	<i>Topics:</i> INTRO - climate anxiety; risky shading - cooling; unprecedented tipping points – 1.5 and 2°C; 1.1°C already; comparison to previous warm periods; Eemian European hippos.
5 slides; 12 mins		<i>Takeaway:</i> Whatever our climate destiny in the Modern Warm Period, it is reassuring to know that earth and its humans have survived much warmer times.
R2	Reassuring Facts	<i>Topics:</i> overpopulation doom; carbon-based lifeform; cooling kills civilizations; Indian wheat - Ten Global Trends; Lancet warming saves lives; Clintel; sources for temp, CO2; land use; SUMMARY
6 slides; 13 mins		<i>Takeaway:</i> Facts are the perfect counter to subjective Opinion and algorithmic Guesswork...it's reassuring when you can see through the climate FOG.

Narrative Construction

Na1	Consensus or Groupthink	<i>Topics:</i> INTRO; consensus politics vs science groupthink; Obama's "97%" Tweet – 3 claims; the IPCC; enforcement through peer review, cancel culture, and funding; Koonin and Curry books
6 slides; 17 mins		<i>Takeaway:</i> The IPCC's climate groupthink ignores scientific uncertainty ... moral certainty in CO2 as the control knob for temperature is at the core of the climate crisis narrative.
Na2	Adjusting Reality	<i>Topics:</i> adjustments 1) erase Medieval Warm Period; 2) tampering with US data; 3) fake, FOGy global data – warning; 4) disputed hottest day record; not reality 2/3.
6 slides; 15 mins		<i>Takeaway:</i> False claims about warm periods; tampered with and FOGy data sets; disputed temperature records...CO2 control knob theory requires that the data reality of the earth's climate be adjusted.
Na3	Virtual Sixth Extinction	<i>Topics:</i> polar bears, coral reefs, bees; prior extinctions, red list, and land use; IBPES – 6.2 million virtual species; Cambrian explosion; SUMMARY.
5 slides; 10 mins		<i>Takeaway:</i> With over 6 million virtual species invented, computer simulations can predict (and in due course, no doubt, report) as many virtual extinctions as the narrative requires.

Narrative Preaching

Na4	Media Preachers	<i>Topic:</i> INTRO; advocacy journalism; headlines, terms, and image propaganda; censorship by social media and ChatGPT; heat reporting 9x cold.
6 slides; 12 mins		<i>Takeaway:</i> Objective reporting is so last century...today, the scientific uncertainty of climate change is replaced by moral certainty in climate crisis, a narrative preached by both the mainstream and social media.
Na5	Tricks of the Narrative	<i>Topics:</i> #1 trick – predictions as evidence; words; data trends; climate vs. weather; future choice; ice sheet melt; Arctic Sea ice; disasters and GDP; y-axis and x-axis – time period; start-date selection
11 slides; 20 mins		<i>Takeaway:</i> Simulations & predictions presented as objective evidence, but that's only the start...the narrative's preachers have any number of tricks and are not shy in using them.
Na6	Extreme Weather	<i>Topics:</i> daily/lifetime occurrences; two theories of weather direction; extreme weather trends – flat; modeled event attribution – not reality 3/3; unprecedented video; SUMMARY.
7 slides; 16 mins		<i>Takeaway:</i> Weather is <u>attributed</u> to climate in virtual models – <u>Guesswork</u>...then video is used to influence our <u>Opinion</u>...but extreme weather in the earth's real climate has not increased – <u>Fact</u>.

Narrative Realization

Na7	Energy Reality	<i>Topics:</i> INTRO; Korean peninsula, 3bn people = US fridge; global energy mix, renewable cognitive dissonance; trillions on Wind & Solar – 3% of mix; pretend transition; fertilizer etc.; Epstein book
7 slides; 15 mins		<i>Takeaway:</i> Our energy reality is that for many decades (maybe centuries) to come..."Global human flourishing requires more oil, coal, and natural gas – not less."
Na8	Net-Zero Delusion	<i>Topics:</i> amateur activism; professionals' strategy – block, pretend, assume, ignore, degrade; challenge – ff infrastructure; politicians, bureaucrats (EPA finding), lawyers, corporations; examples + feasibility
6 slides; 15 mins		<i>Takeaway:</i> There are no feasibility projects to demonstrate Net Zero with Wind & Solar because running an advanced industrial society on breezes and sunshine is not feasible...it's delusional.
Na9	Stakeholder Analysis	<i>Topics:</i> 6 stakeholder groups (NGO budget) and 3 interested parties (teachers); spectrum of dissent; Righteousness; SUMMARIES – climate realism, energy system literacy, narrative awareness.
9 slides; 21 mins		<i>Takeaway:</i> The climate crisis narrative and the net-zero delusion it spawns serve the interests and beliefs of powerful stakeholders...but you and I don't have to believe in climate models.