

POE372-F21S0 Science, Technology, Politics, Society and the Environment



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Announcements

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Science and technology are creations of society, but also shape it.

POE372-F21S0-122039

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POE372 Course Brochure

Edit

POE372,374 Course Syllabus

Edit

Overview of the course - last year's exam review

Edit

This is the second time this course has been offered. The review slides from last year's exam provide a good overview of the material. There will be minor adjustments to the course, and a new review file will be provided in the final weeks.

Evaluation POE372 and POE374

Edit

POE374-A1 Book Review (20 percent, due week 13)

Edit

POE374-A2 Research Proposal (10 percent, due week 4)

Edit

POE374-A3 Annotated Bibliography (10 percent, due week 7)

Edit

POE374-A4 Research Paper (30 percent, due week 10)

Edit

POE374 Annotated Bibliography

Edit


This is a summary of sources used to prepare this course. It is NOT an example to follow for the POE374 annotated bibliography submission.

POE374 Guide to developing your proposal (QADOR)

Edit

POE374 example of a well-developed QADOR

Edit

  [General matrix for evaluation of written work \(ideas, expression, support\)](#) 

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Week 1. Science and Policy

Edit ▾

  [Please Introduce yourself](#) 

Edit ▾ 

  [Week 1 lecture - outline and definitions](#) 

Edit ▾

  [Week 1 lecture recording \(90 minutes\)](#) 




Edit ▾

  [Week 1 forum - science and policy](#) 

Edit ▾ 

  [Definitions of politics](#) 

Edit ▾

  [Gressel \(2020\) Military lessons from Nagorno-Karabakh: Reason for Europe to Worry](#) 

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  [Casimir \(1965\) When Does Jam become Marmalade?](#) 

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  [Kieth Davis, Art vs Science: CP Snow's Two Cultures, 50 years on](#) 

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Week 2. Evidence-based Technology Policies

Edit ▾

  [Week 2 presentation - evidence-based policy](#) 

Edit ▾

  [Week 2 forum - evidence based policy](#) 

Edit ▾ 

  [Snow \(1960\) Science and Government](#) 

Edit ▾

  [Pawson \(2006\) Realist Methodology](#) 

Edit ▾

  [Bardach \(2011\) Introduction](#) 

Edit ▾

  [Bardach \(2011\) Appendix B - policy options](#) 

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  [Bardach \(2011\) Appendix C: Understanding public and non-profit institutions](#) 

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Week 3. Canada's Innovation Strategies

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  [Week 3 Presentation: Innovation Strategies](#) 

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  [Week 3 forum - innovation policies](#) 

Edit ▾ 

  [Milne \(2020\) Markets](#) 




Edit ▾

  [Mazzucato \(2014\) The Entrepreneurial State, conclusion](#) 










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  [Weiss \(2014\) Ch.1 National Security State and Technological Leadership](#) 

Edit ▾

  [Sen \(2011\) Quality of Life, NYRB](#) 






























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-   [Crane \(2020\) Canada needs better strategies...](#)  Edit ▾
-   [Smardon \(2020\) Ch2 in Whiteside, Dependent Technological Change](#)  Edit ▾
-   [Turner, Trade, and Tensions \(2020\)](#)  Edit ▾

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Week 4. Decision-Making and Procurement in Ottawa
































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-   [Week 4 - Ottawa's policy marketplace](#)  Edit ▾
-   [Week 4 forum - mapping and working the town](#)  Edit ▾ 
-   [Milne \(2020\) The policy marketplace](#)  Edit ▾
-   [Milton Friedman \(1980\) Power of Ideas \(12 minutes\)](#)  Edit ▾
-   [Ralph Coleman - 50 years of service](#)  Edit ▾
-   [Innovation Canada: A Call to Action \(2011\) \(the Jenkins Report\)](#)  Edit ▾
-   [Sulzenko \(2016\) Canada's Innovation Conundrum. IRPP](#)  Edit ▾
-   [Lobby Canada \(2021\) Registration - In-house Organization, Canadian Association of Defence and Security Industries \(CADSI\)](#)  Edit ▾
-   [Module 1 Quiz - Innovation Strategies](#)  Edit ▾ 







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Week 5. Growth and the Carbon Economy

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-   [Week 5 presentation - environment and economic growth](#)  Edit ▾
-   [Week 5 lecture 1](#)  Edit ▾
-   [week 5 lecture 2](#)  Edit ▾
-   [Week 5 forum - growth and environment](#)  Edit ▾ 
-   [Clark \(2008\) Ch. 1 A short economic history of the world](#)  Edit ▾
-   [Homer-Dixon \(2007\) Upside of Down](#)  Edit ▾
-   [Homer-Dixon \(2006\) Response to Review](#)  Edit ▾
-   [Harari \(2014\) Ch. 17, Wheels of Industry; Ch.18, Permanent Revolution](#)  Edit ▾
-   [McKinsey \(2020\) on climate change](#)  Edit ▾
-   [The Economist \(2021\) COP26 Special Report](#)  Edit ▾


























This six-part special report of the Economist puts the 26th Conference of the Parties (COP26) to the 2015 Paris Climate Change Agreement into context.

-   [The Economist \(2021\) 2. What the 2015 Paris Agreement Meant](#)  Edit ▾
-   [The Economist \(2021\) 3. How Asia is Crucial](#)  Edit ▾

-   [The Economist \(2021\) 4. The Economics of Climate](#)  Edit ▾
-   [The Economist \(2021\) 5. why we need negative emissions](#)  Edit ▾
-   [The Economist \(2021\) 6. Governing the Atmosphere](#)  Edit ▾

































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Week 6. Systems Thinking and Resilience Edit ▾

-   [Week 6 presentation - systems thinking and resilience](#)  Edit ▾
-   [Week 6 forum - systems and planning](#)  Edit ▾ 
-   [Meadows \(2008\) Systems Thinking](#)  Edit ▾
-   [Royal Society - Climate Change in 60 Seconds](#)  Edit ▾
-   [Cassotta and Pettersson \(2019\) Climate, Environment, Cyber, and Regulation](#)  Edit ▾
-   [Scofield \(2020\) Funding for Electric Vehicles](#)  Edit ▾
-   [Last & Youssofzai \(2014\) Framework to Approach Planning for Resilience](#)  Edit ▾
-   [Cornish and Mayrand \(2020\) Green Recovery, IRPP](#)  Edit ▾

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Week 7. Slower by Design or Disaster Edit ▾


























-   [Week 7.1 Climate Disaster and Resilience](#)  Edit ▾
-   [Week 7.2 policy challenges of systemic change](#)  Edit ▾
-   [Week 7 forum - resilience and planning](#)  Edit ▾ 
-   [Zolli \(2012\) Resilience, introduction](#)  Edit ▾
-   [Solved: How Cities Take Action \(1 minute\)](#)  Edit ▾
-   [Greenberg \(2019\) Ch.42 Resilience \(in the context of cyber attack\)](#)  Edit ▾
-   [Russian Government Cyber Activity Targeting Energy and Other Critical Infrastructure Sectors](#)  Edit ▾
-   [Federation of Canadian Municipalities \(2021\) Low Carbon Cities Canada](#)  Edit ▾
-   [Stewart \(2020\) Cost of Inaction](#)  Edit ▾
-   [Module 2 Quiz - Environment and Growth](#)  Edit ▾ 

This quiz will be open from Tuesday 26 October to Sunday 31 October

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Week 8. Technology and Employment Edit ▾


















-   [Week 8 presentation - technology, society, and employment](#)  Edit ▾

- ✚  [Week 8 forum - health and safety, circular economy, public vs private sectors](#)  Edit 
- ✚  [Kim \(2020\) AI for CAF](#)  Edit
- ✚  [China's Social Credit System](#)  Edit
- ✚  [Khrais \(2020\) Role of AI in shaping consumer demand in E-commerce](#)  Edit
- ✚  [Kobie \(2019\) The Complicated Truth behind China's Social Credit Scheme](#)  Edit
- ✚  [Frankling \(2020\) Are workers stealing time when working from home?](#)  Edit
- ✚  [Ford \(2015\) Rise of the Robots, introduction and conclusion](#)  Edit
- ✚  [Zuboff \(2021\) Facebook and the Coup We aren't talking about](#)  Edit
- ✚  [Moore \(2018\) Democracy Hacked, Introduction](#)  Edit
- ✚  [Kunstler \(2012\) Too Much Magic](#)  Edit
- ✚  [Lee \(2018\) Blueprint for existence with AI](#)  Edit
- ✚  [Howard \(2015\) Premises for Pax Technica](#)  Edit

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✚ Week 9. Markets and Planning














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- ✚  [Week 9 presentation - markets, planning, and risk](#)  Edit
- ✚  [Week 9 forum - bureaucrats and capitalism](#)  Edit 
- ✚  [Holmes \(2012\) Foreign Ownership, Control and Influence in the 21st Century](#)  Edit
- ✚  [Pielke \(2007\) Honest Broker, Ch. 1&2](#)  Edit
- ✚  [Economist \(2020\) A Grand Bargain](#)  Edit
- ✚  [Schot and Steinmuller \(2018\) Three frames for innovation policy](#)  Edit
- ✚  [Giuliani \(2018\) Regulating Global Capitalism](#)  Edit
- ✚  [Booth \(2020\) Price of Tomorrow, Ch.10](#)  Edit























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✚ Week 10. Glassco, Foreign Investment, and Policy

Edit 

- ✚  [Week 10 presentation - technology, innovation and future employment](#)  Edit
- ✚  [Week 10 forum - who governs and how?](#)  Edit 
- ✚  [Greenberg \(2019\) Sandworm, Epilogue](#)  Edit
- ✚  [Kanger and Schot \(2019\) Deep Transitions, Long Term Change](#)  Edit
- ✚  [Schot and Steinmuller \(2018\) Three Frames for innovation](#)  Edit
- ✚  [Kuhlmann et al \(2019\) Tentative Governance of Emerging Science and](#)  Edit

[Technology](#) 




























-   [Giuliani \(2018\) Regulating Global Capitalism](#)  Edit ▾
-   [Anatoliyovych \(2016\) Innovation Priorities Optimization \[Ukraine\]](#)  Edit ▾
-   [Liu et al \(2011\) China's Innovation Policies](#)  Edit ▾
-   [Rezende et al \(2018\) Brazilian national Defence Policy and Technological Innovation](#)  Edit ▾
-   [Schwanen \(2017\) Innovation Policy in Canada](#)  Edit ▾
-   [Module 3 Quiz Review](#)  Edit ▾
-   [Module 3 Quiz - Society and Employment](#)  Edit ▾ 

This quiz will be open from Tuesday 16 November to Sunday 21 November. Same rules as above.

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Week 11. Canadian procurement process























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-   [Week 11 presentation - DND procurement and defence capabilities](#)  Edit ▾
-   [Week 11 forum - core capabilities and cubicle warfare](#)  Edit ▾ 
-   [Kasurak \(2008\) Fools, Knaves, or Something Else?](#)  Edit ▾
-   [National Academies \(2020\) Improving Workforce Capabilities](#)  Edit ▾
-   [Plamondon \(2010\) Politics of Procurement, Intro, conclusion](#)  Edit ▾
-   [Nossal \(2016\) Charlie Foxtrot, Intro and Ch. 1](#)  Edit ▾
-   [Nossal \(2016\) Charlie Foxtrot Ch. 5 and conclusion](#)  Edit ▾
-   [Stone & Solomon \(2020\) Ch. 9 Political Economy of Defence](#)  Edit ▾
-   [Perry \(2020\) Ch. 5 Defence Budgets](#)  Edit ▾
-   [Dempster \(2020\) Ch. 19 Capability Acquisition](#)  Edit ▾

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Week 12. Procuring naval and air capabilities


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-   [Col\(ret'd\) Paul Maillet, NGFA Technology Development and Policy](#)  Edit ▾
-   [Week 12 forum - technology and capabilities](#)  Edit ▾ 
-   [Naval Association \(2013\) Why does it cost so much and take so long?](#)  Edit ▾
-   [Lehre \(2013\) National Shipbuilding Strategy Update, Naval Association](#)  Edit ▾
-   [Auger \(2015\) National Shipbuilding Program, 5 year assessment](#)  Edit ▾
-   [Fortier \(2016\) What's the Deal with Shipbuilding?](#)  Edit ▾
-   [Stone \(2019\) Demise of the National Shipbuilding Strategy](#)  Edit ▾

-   [PSPC \(2019\) About the National Shipbuilding Strategy](#)  Edit ▾
-   [Craigie \(2012\) NSPS as a model for choosing the next generation fighter](#)  Edit ▾
-   [F35 Bad Choice to Replace CF18s \(Winnipeg Free Press, 2012\)](#)  Edit ▾
-   [Lam and Cozzarin \(2014\) JSF-F35 Decision: A Technology Policy Perspective](#)  Edit ▾
-   [Von Hlatky and Rice \(2018\) Striking a Deal on the F35](#)  Edit ▾
-   [Nossal \(2012\) Canada, F35, and lessons of the new fighter aircraft program](#)  Edit ▾
-   [PWGSC \(2021\) Future Fighter Capability Project](#)  Edit ▾
-   [Hruska \(2021\) US Air Force Quietly Admits the F35 is a Failure](#)  Edit ▾

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Review Edit ▾

-   [Exam options for fall 2021](#)  Edit ▾

These questions reflect the content of the course last year. A survey will follow to determine student preference for exam format and content.

-   [Exam review](#)  Edit ▾ 

Please use this forum to discuss the content and study strategies for the final exam (POE372 only)

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