

# Governing Transformative Innovation - GLA20821H-S

Winter 2023, Tuesdays 6:30pm – 8:30pm, Eastern Time Zone

**Instructor:** Matt Wilder  
**Telephone:** (416) 728-2976  
**Email:** [matt.wilder@utoronto.ca](mailto:matt.wilder@utoronto.ca)  
**Office Hours:** Virtual by appointment, or in-person after class  
**Delivery:** In-person, 315 Bloor room B019

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## Course Description

This course takes a multidisciplinary approach to examining how society responds to technological change. Themes include innovation and industrial policy, finance, skills development and just transitions with a focus on energy, agriculture, health, transportation and infrastructure. The course is designed to bridge the divide between theory and practice, providing insights for both aspiring academic researchers and applied practitioners. Meetings will consist of a mix of class discussions and presentations by guest speakers, the instructor and student peers.

## Learning Objectives

The course engages with salient debates in the academic and applied policy literature related to innovation and governance. Thematically, there will be an emphasis on exploring the extent to which major figures from different fields align with one another in terms of approaches and recommendations. Students will be challenged to think critically about governance, drawing logical connections between macro-level structures (e.g., techno-economic paradigms) and micro-level behavioural processes (e.g., consumption choices). Successful students will be well-positioned for careers as consultants, researchers and advisors in the innovation domain.

## Course Format

Twelve in-person seminars. Online assignment submission. All readings posted to Quercus.

## Recommended text

Phillips, Peter. (2007). *Governing transformative technological innovation: who's in charge?* Edward Elgar.

## Anonymous Feedback

Help improve the course as it is delivered by submitting anonymous feedback at:

<https://q.utoronto.ca/courses/288804/quizzes/304678>

## Evaluations and Course Grade

The final course grade reflects your level of demonstrated achievement of the course Learning Objectives listed above. Evaluations provide feedback on your progress towards the final course grade. ***Ouriginal will be used in this course*** and can be done via Quercus. You do not need to sign in to Ouriginal separately.

Evaluations	Weight	Deadline	Submit via	Ouriginal
Reflection exercises	30%	Weeks 2-12 by 5:00 PM, Tuesday	Quercus	No
Project presentation	20%	Weeks 5-12	In class	No
Major assignment	30%	April 10th, 2023 11:59 PM, EST	Quercus	Yes
Participation	20%	In class or online by 11:59 PM, Tuesday	In class, Quercus	No

## Evaluation Criteria

### ***Reflection exercises 30%***

Students are required to submit six (or more) written reading reflections by 5:00pm Tuesday between Weeks 2 and 12. Each submission is worth 5% of the final course grade. Submissions should be between 300 and 500 words, convey a proper understanding and appreciation of a major argument contained in the week's required reading, and reflect on the usefulness of the reading for understanding governance of transformative innovation. Students are welcome to constructively critique the required reading in light of prior knowledge, class discussions and other material covered in the course. Students are encouraged to discuss the reading's applicability to the topic chosen for the major assignment (see *major assignment* below). Submissions will be evaluated on quality, concision and coherence, not quantity. Late submissions will not be accepted. It is therefore advisable to submit well before the deadline in case of technical problems. Submissions will be made available to the rest of the class so that peers may comment on reflections (see *participation* below). Students may submit up to eleven exercises, whereby the six highest scoring assignments will count toward the final grade.

**Project presentation 20%**

Each student is required to make a short (10-15 minute) presentation to the class on the topic chosen for the major assignment (see *major assignment* below). Presentations should clearly convey the rationale for the project, its intended audience, and its relevance to the course theme of governing transformative innovation. Presentations given early in the semester may be in the form of a pitch to an organization (e.g., funding agency, government, NGO, private company) regarding why the research is worth pursuing. Presentations given later in the semester may report on the study findings. A presentation schedule will be devised in the first week of class. Students are welcome to use slides but they are not required for full credit. Co-presenting with a coauthor is permitted.

**Major assignment 30%**

Students may select one of the following options for the major assignment.

Option one: In the format of a journal article, write an academic research paper that contributes to scholarly understanding of how transformative innovation can, is or should be governed. Students have wide discretion regarding how they approach the assignment, including whether the contribution is primarily theoretical, empirical or both. Students may choose a topic that is broad or narrow in scope (e.g., ‘varieties of finance for innovation’, ‘the pursuit of net zero emissions at Campbell’s Soup, Toronto’). Evaluation will be based on the originality and plausibility of the argument, as well as the quality, clarity and concision of the writing. A 100-200 word abstract that clearly and concisely summarizes the research question, thesis or hypothesis, method and findings is strongly recommended. Students may wish to browse back issues of [Strategic Management Journal](#), [Research Policy](#) or [Regulation and Governance](#) for examples. The format of a ‘review article’ that critically engages with two or more books in depth is acceptable (but not required), examples of which can be found [here](#) and [here](#).

Option two: In the format of a professional document, write a policy brief that offers advice to a public, private or non-profit entity of your choosing. Consider a limited number of practical alternatives—including continuation of the status quo, if appropriate—and offer one or two concrete recommendations based on foreseeable contingencies. Subject matter is the student’s prerogative. A 100-200 word executive summary that clearly and concisely summarizes the problem, solutions/options considered, method/criteria of analysis and recommendations is strongly recommended. Students may wish to browse advisory reports by high profile organizations, such as the OECD, KPMG, think tanks and major industry groups.

Students should begin research in the first week of class. Assignments should be between 5,000 and 8,000 words. All standard fonts are acceptable (e.g., Times New Roman, Arial, Calibri, Tahoma). Three quarter or one-inch margins are acceptable. Spacing at 1.15pt is preferred. Students are encouraged to run their ideas by the instructor during office hours and/or the group during class discussions. Co-authoring with one other student is permitted.

**Participation 20%**

Students are required to thoughtfully contribute to the class discussion by engaging with the course material. At least one significant contribution per meeting is recommended for full credit, which may be in the form of an oral contribution or online comment on the weekly meeting notes or peer reading reflections. Please submit online comments before midnight the day of class.

**Late Penalty**

Late assignments will be penalized three percentage points for the first day late, and one percentage point per day thereafter beginning at 12:00am.

## Class Schedule

If you would like a certain perspective or topic to be discussed, please feel free to make reading suggestions to the instructor in-person, over e-mail or through the [anonymous feedback tool](#).

Session	Delivery	Topic	Readings
<b>Week 1 (17/1/23)</b>	in-person	<b>introduction</b> who governs?	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>Phillips, Peter. (2007). 'A framework for analysis' In <i>Governing transformative technological innovation: who's in charge?</i> Edward Elgar (pp. 67-81).</li> <li>Breznitz, Dan. (2020). 'Conclusion' In <i>Innovation in real places</i>. Oxford (pp. 185-88).</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>Kline, Stephen &amp; Nathan Rosenberg. (1986). 'Overview of innovation' In Landau &amp; Rosenberg (Eds.) <i>Positive sum strategy</i>. National Academy Press. (pp. 275-306).</li> <li>Locke, Richard &amp; Rachael Wellhausen. (2014). 'Introduction' In R. Locke &amp; R. Wellhausen (eds.) <i>Production in the innovation economy</i>. MIT. (pp. 1-15).</li> <li>Langlois, Richard. (2003). 'The vanishing hand: the changing dynamics of industrial capitalism' <i>Industrial and Corporate Change</i>, 12(2): 351-85.</li> <li>Jones, Bryan D. &amp; Lynne Bachelor. (1993). 'Private power and public policy' In <i>The sustaining hand: community leadership and corporate power</i>. University of Kansas Press. (pp. 3-13).</li> <li>Coen, David &amp; Wyn Grant. (2016). 'Business politics' In D. Coen &amp; W. Grant (eds.) <i>Business and government</i>. Edward Elgar. (pp. 1-13).</li> <li>Jessop, Bob. (2016). 'Power, interests, domination, state effects' In <i>The state: past, present, future</i>. Polity. (pp. 91-120).</li> <li>Williamson, Oliver. (1985). 'Transaction cost economics' In <i>The economic institutions of capitalism</i>. Free Press. (pp. 15-42).</li> <li>Campbell, John L. &amp; Ove Pedersen (2011). 'Knowledge regimes and comparative political economy' In D. Béland &amp; R. Cox (eds.) <i>Ideas and politics in social science research</i>. Oxford. (pp. 167-190).</li> <li>Hall, Peter &amp; David Soskice. (2001). An introduction to the varieties of capitalism. In P. Hall &amp; D. Soskice (eds.) <i>Varieties of capitalism: the institutional foundations of comparative advantage</i>. Oxford. (pp. 1-68).</li> <li>Hassel, Anke &amp; Bruno Palier (2020). 'Tracking the transformation of growth regimes in advanced capitalist economies' In A. Hassel &amp; B. Palier (eds.) <i>Growth and Welfare in Advanced Capitalist Economies</i>. Oxford. (pp. 3-56).</li> <li>Granovetter, Mark. (1985). 'Economic action and social structure: the problem of economic embeddedness' <i>American Journal of Sociology</i>, 91(3): 481-510.</li> <li>Coleman, James. (1990). 'Actors and resources, interest and control' In <i>Foundations of social theory</i>. Harvard. (pp. 27-44).</li> <li>Berger, Suzanne. (2013). 'How to move innovation into the economy' In <i>Making in America: from innovation to market</i>. MIT. (pp. 1-23).</li> </ul>

<p><b>Week 2</b> <b>(24/1/23)</b></p>	<p>in-person</p>	<p><b>governing through the state I</b> the political economy of intervention</p>	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>Greenwald, Bruce &amp; Joseph Stiglitz. (2013). 'Industrial policies, the creation of a learning society, and economic development' In J. Stiglitz &amp; J. Yifu (eds.) <i>The industrial policy revolution I: the role of government beyond ideology</i>. IEA Press (pp. 43-71).</li> <li>Lerner, Josh (2013). Discussion of 'Industrial policies, the creation of a learning society, and economic development' In J. Stiglitz &amp; J. Yifu (eds.) <i>The industrial policy revolution I: the role of government beyond ideology</i>. IEA Press (pp. 72-76).</li> <li>Zerbe, Richard &amp; Howard McCurdy. (1999). 'The failure of market failure.' <i>Journal of Policy Analysis and Management</i> 18(4): 558-78.</li> </ul> <p><b>Recommended reading:</b></p> <ul style="list-style-type: none"> <li>Phillips, Peter. (2007). 'Governing through the state' In <i>Governing transformative technological innovation: who's in charge?</i> Edward Elgar (pp. 82-99).</li> <li>Hall, Peter. (2015). 'The changing role of the state in liberal market economies' In S. Leibfried et al. (eds). <i>The Oxford handbook of transformations of the state</i>. Oxford. (pp. 426-44).</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>Andres, Pia. (2023). 'Industrial policy and global public goods provision: rethinking the environmental trade agreement' Grantham Research Institute on Climate Change and the Environment.</li> <li>Bulfone, Fabio. (2022). 'Industrial policy and comparative political economy: a literature review and research agenda' <i>Competition and Change</i>, 27(1): 22-43.</li> <li>Wilder, Matt. (2021). 'Industrial policy' In A. Kellow et al. (eds.) <i>Handbook of business and public policy</i>. Edward Elgar. (pp. 309-24)</li> <li>Aiginger, Karl &amp; Dani Rodrik. (2020). 'Rebirth of industrial policy and an agenda for the twenty-first century' <i>Journal of Industry, Competition and Trade</i>, 20(1): 189-207.</li> <li>Mazzucato, Marianna &amp; Rainer Kattel. (2020). 'Grand challenges, industrial policy and public value' In A. Oqubay et al. (eds.) <i>Oxford handbook of industrial policy</i>. Oxford. (pp. 311-36).</li> <li>Lane, Nathaniel. (2020). 'The new empirics of industrial policy' <i>Journal of Industry, Competition and Trade</i>, 20(2): 209-34.</li> <li>Oqubay, Arkebe. (2020). 'The theory and practice of industrial policy; In A. Oqubay et al. (eds.) <i>Oxford handbook of industrial policy</i>. Oxford. (pp. 17-60).</li> <li>Rodrik, Dani. (2014). 'Green industrial policy' <i>Oxford Review of Economic Policy</i>, 30(3): 469-91.</li> <li>Krugman, Paul. (1993). 'The current case for industrial policy' In D. Salvatore (ed.) <i>Protectionism and world welfare</i>. Cambridge. (pp. 160-79).</li> <li>Hamilton, Alexander. (1791). 'Report on manufacturers' <i>Works of Alexander Hamilton</i> (vol 10). Columbia. (pp. 192-284).</li> <li>List, Frederick. (1841). <i>National system of political economy</i>. J.B. Lippincott (1856 translation).</li> </ul>
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			<ul style="list-style-type: none"> <li>• Arrow, Kenneth. (1962). 'Economic welfare and the allocation of resources for invention' In R. Nelson (ed.) <i>The rate and direction of inventive activity</i>. Princeton: Princeton University Press. (pp. 609-26).</li> <li>• Nelson, Richard. (1959). 'The simple economics of basic scientific research' <i>Journal of Political Economy</i>, 67(3): 297-306.</li> <li>• Nelson, Richard. (2006). 'Reflections on "The Simple economics of basic scientific research": looking back and looking forward' <i>Industrial and Corporate Change</i>, 15(6): 903-17.</li> <li>• Stephan, Paula. (1996). 'The economics of science' <i>Journal of Economic Literature</i>, 34(3): 1199-1235.</li> <li>• Jessop, Bob. (1990). 'Recent theories of the capitalist state' In <i>State theory</i>. Polity. (pp. 24-47).</li> <li>• Blais, André. (1986). 'Choosing the target' In <i>A political sociology of public aid to industry</i>. University of Toronto Press. (pp. 95-118).</li> <li>• Williamson, Oliver. (1996). 'The institutions and governance of economic development and reform.' In <i>The mechanisms of governance</i>. Oxford. (pp. 322- 48).</li> <li>• Eisinger, Peter. (1988) 'Justifying economic development' In <i>The rise of the entrepreneurial state: state and local economic development policy in the United States</i>. University of Wisconsin Press. (pp. 34-54).</li> <li>• Laffont, Jean-Jacques. (1996). 'Industrial policy and politics' <i>International Journal of Industrial Organization</i>, 14(1): 1-27.</li> <li>• North, Douglass. (1990). 'An introduction to institutions and institutional change' In <i>Institutions, institutional change and economic performance</i>. Cambridge. (pp. 3-9).</li> </ul>
<p><b>Week 3</b> <b>(31/1/23)</b></p>	<p>in-person</p>	<p><b>governing through the state II</b> the role of agencies</p> <p><i>Guest presentation by Christopher Lau, Director at Invest Ontario</i> <i>'Investment incentives — a balanced perspective'</i></p>	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>• Azoulay Pierre et al. (2019) 'Funding breakthrough research: promises and challenges of the "ARPA model"' <i>Innovation Policy and the Economy</i>, 19(1): 69-96.</li> <li>• Jessop, Bob. (2016). 'Government + governance in the shadow of hierarchy.' In <i>The state: past, present, future</i>. Polity. (pp. 164-86).</li> <li>• Bartik, Pierre. (2018). "'But for" percentages for economic development incentives: what percentage estimates are plausible based on the research literature?' <i>Upjohn Institute Working Papers</i>, 289: 1-26.</li> </ul> <p><b>Recommended reading:</b></p> <ul style="list-style-type: none"> <li>• Steeve, Jamison &amp; Sean Speer. (2019). 'Re-Imagining Ontario's Business Support Programs' <i>Ontario 360 Policy Papers</i>.</li> <li>• Middle Class Political Economist. (2014). 'Basics: Is that a good economic development deal? Using the Megadeals database'</li> <li>• Smith, Yves. (2014). 'Is that a good state/local economic development deal? a checklist' <i>Naked Capitalism</i>.</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>• Breznitz, Dan, Darius Ornston &amp; Steven Samford. (2018). 'Mission critical: the ends, means, and design of innovation agencies' <i>Industrial and Corporate Change</i>, 27(5): 883-96.</li> </ul>

			<ul style="list-style-type: none"> <li>• Miller, Gary &amp; Andrew Whitford. (2016). 'Political moral hazard and bureaucratic autonomy' In <i>Above politics: bureaucratic autonomy and credible commitment</i>. Cambridge. (pp.77-99).</li> <li>• Ó Riain, Seán. (2000). 'The flexible developmental state: globalization, information technology, and the "Celtic tiger"' <i>Politics and Society</i>, 28(2): 157-93.</li> <li>• Evans, Peter. (1995). 'States and industrial transformation' In <i>Embedded autonomy</i>. Princeton. (pp. 3-21).</li> <li>• Langlois, Richard. (1992). Transaction-cost economics in real time. <i>Industrial and corporate change</i>, 1(1): 99-127.</li> <li>• Graham, Otis (1992). 'America's unconscious industrial plan' In <i>Losing time: the industrial policy debate</i>. Harvard. (pp. 173-206).</li> <li>• Calder, Kent. (1989). 'Elites in an equalizing role: ex-bureaucrats as coordinators and intermediaries in the Japanese government-business relationship' <i>Comparative Politics</i>, 21(4): 379-403.</li> </ul>
<b>Week 4</b> <b>(7/2/23)</b>	in-person	<p><b>governing through the state III</b> secular stagnation, techno-economic paradigms, political missions and development</p> <p><i>Guest presentation by Sean McGowan, former Munk MPP (class of 2022) and Junior Policy Analyst at Innovation Science and Economic Development Canada (dialing in from Ottawa)</i></p>	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>• Aghion, Phillipe, Céline Antonin &amp; Simon Bunel.(2021). 'The secular stagnation debate' In <i>The power of creative destruction</i>. Harvard. (pp. 104-24). (skim)</li> <li>• Eisinger, Peter. (1988). 'Anticipating and creating markets: the states and high-technology policy' In <i>The rise of the entrepreneurial state: state and local economic development policy in the United States</i>. University of Wisconsin Press. (pp. 266-89).</li> <li>• Mazzucato, Mariana &amp; Carlota Perez. (2015). 'Innovation as growth policy: the challenge for Europe' In J. Fagerberg et al. (eds.) <i>The triple challenge for Europe</i>. Oxford. (pp. 229-64).</li> <li>• Keller, Matthew et al. (2022). 'What makes a developmental network state durable?' <i>Sociology Compass</i>, 16(1): 1-13</li> </ul> <p><b>Recommended reading:</b></p> <ul style="list-style-type: none"> <li>• Block, Fred. (2011). 'Innovation and the invisible hand of government' In F. Block &amp; M. Keller (eds.) <i>State of innovation: the US government's role in technology development</i>. Routledge. (pp. 1-26).</li> <li>• Sen, Avery. (2017). 'Island + Bridge: how transformative innovation is organized in the federal government' <i>Science and Public Policy</i>, 44(5): 707–21.</li> <li>• Goldstein, Anna et al.(2017) 'Promoting energy innovation with lessons from drug development' policy proposal. The Hamilton Project. (pp: 1-24).</li> <li>• Gelb, Alan, et al. (2020). 'Can Sub-Saharan Africa be a manufacturing destination? Labor costs, price levels, and the role of industrial policy' <i>Journal of Industry, Competition and Trade</i>, 20(2): 335-57.</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>• Summers, Lawrence. (2014). 'Reflections on the "new secular stagnation thesis"' In C. Collins &amp; R. Baldwin (eds.) <i>Secular stagnation: facts, causes, cures</i>. Centre for Economic Policy Research. (pp. 2-40).</li> </ul>



			<ul style="list-style-type: none"> <li>Krugman, Paul. (2014). 'Four observations on secular stagnation' In C. Collins &amp; R. Baldwin (eds.) <i>Secular stagnation: facts, causes, cures</i>. Centre for Economic Policy Research. (pp. 61-68).</li> <li>Sen, Avery. (2014). 'Totally radical: from transformative research to transformative innovation' <i>Science and Public Policy</i>, 41(1): 344–58.</li> <li>Conteh, Charles &amp; Brittany Harding. (2023). Boundary-spanning in public value co-creation through the lens of multilevel governance' <i>Public Management Review</i>, 25(1): 104-28.</li> <li>Zucker, Lynne, Michael Darby &amp; Jeff Armstrong. (2002). 'Commercializing knowledge: university science, knowledge capture, and firm performance in biotechnology' <i>Management Science</i> 48(1): 138-53.</li> </ul>
<p><b>Week 5</b> <b>(14/2/23)</b></p>	in-person	<b>governing through the market</b>	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>Herrmann, Andrea. (2019). A plea for varieties of entrepreneurship. <i>Small Business Economics</i>, 5(2): 331-43.</li> <li>Lindblom, Charles. (2001) 'Market system coordination' In <i>The market system</i>. Yale. (pp. 35-51).</li> </ul> <p><i>And at least one of the following:</i></p> <ul style="list-style-type: none"> <li>Aghion, Philippe et al. (2016). 'Taxation, corruption and growth' <i>European Economic Review</i>, 86(1): 24-51.</li> <li>Akcigit, Ufuk et al. (2016). 'Taxation and international mobility of inventors' <i>American Economic Review</i>, 106(10): 2930-81.</li> </ul> <p><b>Recommended reading:</b></p> <ul style="list-style-type: none"> <li>Phillips, Peter. (2007). 'Governing through the market' In <i>Governing transformative technological innovation: who's in charge?</i> Edward Elgar (pp. 100-117).</li> <li>Ornston, Darius &amp; Lorena Camargo. (forthcoming) 'The large firm dilemma: anchor embeddedness and high-technology competition' <i>Socio-Economic Review</i>: 1-20.</li> <li>Thompson, James &amp; Sanders, Ronald. (1997). 'Strategies for reinventing federal agencies: gardening versus engineering' <i>Public Productivity &amp; Management Review</i>, 21(2): 137-55.</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>Acemoglu, Daron. (2023). 'Distorted innovation: does the market get the direction of technology right?' <i>NBER Working Paper</i> 30922.</li> <li>Aghion, Phillipe, Céline Antonin &amp; Simon Bunel. (2021). 'Is competition a good thing?' In <i>The power of creative destruction</i>. Harvard. (pp. 55-74).</li> <li>Grossman, Sanford &amp; Oliver Hart. (1986). 'The costs and benefits of ownership: a theory of vertical and lateral integration' <i>Journal of Political Economy</i>, 94(4): 691-719.</li> <li>Kirzner, Israel. (1973). 'Competition, welfare and coordination' In <i>Competition and Entrepreneurship</i>. Chicago. (pp. 212-42).</li> <li>Milgrom, Paul and John Roberts. (1990). 'Using prices for coordination and motivation' In <i>Economics, organization and management</i>. Prentice Hall. (pp. 56-87).</li> </ul>



			<ul style="list-style-type: none"> <li>• Acemoglu, Daron, James Robinson &amp; Thierry Verdier. (2017). Asymmetric growth and institutions in an interdependent world. <i>Journal of Political Economy</i>, 125(5): 1245-1305.</li> <li>• Scharpf, Fritz. (1997). 'Unilateral action in anarchic fields and minimal institutions' In <i>Games real actors play: actor-centered institutionalism in policy research</i>. Westview. (pp. 97-115).</li> <li>• Porter, Michael. (1990). 'The determinants of national competitive advantage' In <i>The competitive advantage of nations</i>. Macmillan. (pp. 69-130).</li> <li>• Coleman, James. (1990). 'Systems of social exchange' In <i>Foundations of social theory</i>. Belknap. (pp. 119-44).</li> <li>• Grant, Wyn. (1989). 'The strengths and limits of the market mechanism' In <i>Government and industry</i>. Edward Elgar. (pp. 15-51).</li> <li>• Hayek, Friedrich. (1978). 'Competition as a discovery procedure' In <i>New studies in philosophy, politics, economics, and the history of ideas</i>. Chicago. (pp. 179-90).</li> </ul>
<b>Week 6</b> <b>(28/4/23)</b>	in-person	<b>organizational governance</b>	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>• Niosi, Jorge. (1995). 'Theories of technological alliances' In <i>Flexible innovation: technological alliances in Canadian industry</i>. McGill-Queen's University Press. (pp. 3-24).</li> <li>• Atkinson, Robert &amp; Michael Lind. (2018). 'The myth of the genius in the garage: big innovation' In <i>Big is beautiful</i>. MIT. (pp. 95-115).</li> <li>• Vicente, Jérôme. (2018). 'Untraded interdependencies and cluster formation' In <i>Economics of clusters: a brief history of cluster theories and policy</i>. Springer. (pp. 21-46).</li> </ul> <p><b>Recommended reading:</b></p> <ul style="list-style-type: none"> <li>• Phillips, Peter. (2007). 'Governing with civil authorities' In <i>Governing transformative technological innovation: who's in charge?</i> Edward Elgar (pp. 118-39).</li> <li>• Simon, Herbert. (1991). 'Organizations and markets' <i>Journal of Economic Perspectives</i>, 5(2): 25-44.</li> <li>• Coase, Ronald. (1937). 'The Nature of the Firm' <i>Econometrica</i>, 4(16): 386-405.</li> <li>• Pisano, Gary. (1990). 'The R&amp;D boundaries of the firm: an empirical analysis' <i>Administrative Science Quarterly</i>, 35(1): 153-76.</li> <li>• Galbraith, John Kenneth. (1972). 'The imperatives of technology' &amp; 'The technostructure' In <i>The new industrial state</i>, 2<sup>nd</sup> ed. Mentor. (pp. 55-78).</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>• Migone, Andrea, Alexander Howlett &amp; Michael Howlett. (forthcoming). 'The politics of military megaprojects: discursive struggles in Canadian and Australian naval shipbuilding strategies' <i>Policy and Society</i>: 1-19.</li> <li>• Giest, Sarah. (2021). 'Cluster policy and cluster organizations' In <i>The capacity to innovate</i>. Toronto. (pp. 37-64).</li> <li>• Samford, Steven &amp; Dan Breznitz. (2021). 'Mending the net: public strategies for the remediation of network failures' <i>Social Forces</i>, 100(3): 1333-56.</li> </ul>

- Zhang, Yuanyuan et al. (2014). 'Asset specificity and complementarity and MNE ownership strategies: the role of institutional distances' *Industrial Marketing Management*, 43(1): 777-85.
- Brynjolfsson, Erik & Paul Milgrom. (2013). 'Complementarity in organizations' In R. Gibbons & R. Roberts (eds.) *The handbook of organizational economics*. Princeton. (pp. 11-55).
- Langlois, Richard. (2013). 'Organizing the electronic century' In G. Dosi et al., (eds.) *The third industrial revolution in global business*. Cambridge. (pp. 119-67).
- Berger, Suzanne. (2013). 'Scaling up start-ups to market' In *Making in America: from innovation to market*. MIT. (pp. 65-89).
- Schrank, Andrew & Josh Whitford. (2011). 'The anatomy of network failure' *Sociological Theory*, 29(3): 151-77.
- Ostrom, Elinor. (2010). 'Beyond markets and states: polycentric governance of complex economic systems' *American Economic Review*, 100(3): 641-72.
- Teece, David. (2009). 'Dynamic capabilities and the essence of the multinational enterprise' In *Dynamic capabilities and strategic management*. Oxford. (pp. 136-81).
- Bradford, Neil. (2003). 'Public-private partnership? Shifting paradigms of economic governance in Ontario' *Canadian Journal of Political Science*, 36(5): 1005-33.
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- Sharma, Anurag. (1999). 'Central dilemmas of managing innovation in large firms' *California Management Review*, 41(3): 146-64.
- Roos, Daniel, Frank Field & James Neely. (1998). 'Industry consortia' In L. Branscomb & J. Keller (eds.) *Investing in innovation*. Cambridge. (pp. 400-21).
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- Milgrom, Paul & John Roberts. (1995). 'Complementarities and fit: strategy, structure, and organizational change in manufacturing' *Journal of Accounting and Economics*, 19(2): 179-208.
- Milgrom, Paul and John Roberts. (1992). 'The design and dynamics of organizations' In *Economics, organization and management*. Prentice Hall. (pp. 537-94).
- Miller, Gary. (1992). 'The indeterminacy of cooperation: conventions, culture, and commitment' In *Managerial dilemmas*. Cambridge. (pp. 199-215).
- Jessop, Bob. (1990). 'The material and social bases of corporatism' In *State theory*. Polity. (pp. 110-43).
- Porter, Michael. (1990). 'The competitive advantage of firms in global industries' In *The competitive advantage of nations*. MacMillan. (pp. 33-68)

			<ul style="list-style-type: none"> <li>Alchian, Armen. (1984). 'Specificity, specialization, and coalitions' <i>Journal of Institutional and Theoretical Economics</i>, 140(1): 34-49.</li> </ul>
<p><b>Week 7</b> <b>(7/3/23)</b></p>	<p>in-person</p>	<p><b>governing through regulation</b></p>	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>Evans, Peter. (1995). 'Promotion and policing' In <i>Embedded autonomy: states and industrial transformation</i>. Princeton. (pp. 99-127).</li> <li>Jorde, Thomas &amp; David Teece. (1990). 'Innovation and cooperation: implications for competition and antitrust' <i>Journal of Economic Perspectives</i>, 4(3): 75-96.</li> <li>Montpetit, Eric. (2005). 'A policy network explanation of biotechnology policy differences between the United States and Canada' <i>Journal of Public Policy</i>, 25(3): 339-66.</li> </ul> <p><b>Recommended reading:</b></p> <ul style="list-style-type: none"> <li>Moran, Michael. (2000). 'From command state to regulatory state' <i>Public Policy and Administration</i>, 15(4): 1-13.</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>Wang, Fang &amp; Xiaoyong Dai. (2020). Regulation and product innovation: the intermediate role of resource reallocation. <i>Journal of Evolutionary Economics</i>, 30(4): 1035-61.</li> <li>Collier, Ruth, V.B. Dubal &amp; Christopher Carter. (2018). 'Disrupting regulation, regulating disruption: the politics of Uber in the United States' <i>Perspectives on Politics</i>, 16(4): 919-37.</li> <li>Trubnikov, Dimitri. (2017). 'Analysing the impact of regulation on disruptive innovations: the case of wireless technology' <i>Journal of Industry, Competition and Trade</i>, 17(4): 399-420.</li> <li>Pross, Paul &amp; Robert Shepherd. (2017). 'Innovation diffusion and networking: Canada's evolving approach to lobbying regulation' <i>Canadian Public Administration</i>, 60(2): 153-72.</li> <li>Snir, Reut &amp; Gilad Ravid. (2016). 'Global nanotechnology regulatory governance from a network analysis perspective: networks in nanotechnology governance' <i>Regulation &amp; Governance</i>, 10(4): 314-34.</li> <li>Bel, Germà &amp; Jodi Rosell. (2016). 'Public and private production in a mixed delivery system: regulation, competition and costs' <i>Journal of Policy Analysis and Management</i>, 35(3): 533-58.</li> <li>Pierre, Jon. (2015). Varieties of capitalism and varieties of globalization: comparing patterns of market deregulation. <i>Journal of European Public Policy</i>, 22(7): 908-26.</li> <li>Lim, Sijeong &amp; Aseem Prakash. (2014). 'Voluntary regulations and innovation: The Case of ISO 14001' <i>Public Administration Review</i>, 74(2): 233-44.</li> <li>Siems, Mathias &amp; Gerhard Schnyder. (2014). 'Ordoliberal lessons for economic stability: different kinds of regulation, not more regulation' <i>Governance</i>, 27(3): 377-96.</li> <li>Prantl, Susanne. (2012). 'The impact of firm entry regulation on long-living entrants' <i>Small Business Economics</i>, 39(1): 61-76.</li> <li>Héritier, Adrienne &amp; Sandra Eckert. (2008). 'New modes of governance in the shadow of hierarchy: self-regulation by industry in Europe' <i>Journal of Public Policy</i>, 28(1): 113-38.</li> </ul>

			<ul style="list-style-type: none"> <li>Amable, Bruno. (2003). 'Introduction' In <i>The diversity of modern capitalism</i>. Oxford. (pp. 1-25).</li> <li>Eisner, Marc. (2000). 'A regulatory-regime framework; In <i>Regulatory politics in transition</i> 2<sup>nd</sup> ed. Johns Hopkins. (pp. 1-26).</li> <li>Frailberg, Jeremy &amp; Michael Trebilcock. (1998). Risk regulation: technocratic and democratic tools for regulatory reform. <i>McGill Law Journal</i>, 43 (4): 835-87.</li> <li>Jessop, Bob. (1997). 'Capitalism and Its future: remarks on regulation, government and governance' <i>Review of International Political Economy</i>, 4(3): 561-81.</li> <li>Daugbjerg, Carsten. (1997). 'Policy networks and agricultural policy reforms: explaining deregulation in Sweden and re-regulation in the European Community' <i>Governance</i>, 10(2): 123-41.</li> <li>Lipietz, Alain. (1992). 'The Fordist compromise' In <i>Towards a new economic order</i>. Polity. (pp. 1-13).</li> <li>Boyer, Robert. (1990). 'Regulation theory: a user's guide to concepts and methods. In <i>The regulation school: a critical introduction</i>. Columbia. (pp. 25-66).</li> <li>Stigler, George. (1971). 'The theory of economic regulation' <i>The Bell Journal of Economics and Management Science</i>, 2(1): 3-21</li> <li>Polanyi, Karl. (1944). 'Evolution of the market pattern' In <i>The great transformation</i>. Beacon. (pp. 56-67).</li> </ul>
<b>Week 8 (14/3/23)</b>	in-person	<b>governing finance and investment</b>	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>Breznitz, Dan. (2021). 'Start-ups are everywhere! (but the growth statistics)' In <i>Innovation in Real Places</i>. Oxford. (pp. 42-50). (skim)</li> <li>Aghion, Phillipe, Céline Antonin &amp; Simon Bunel.(2021). 'Financing creative destruction' In <i>The power of creative destruction</i>. Harvard. (pp. 229-49).</li> <li>Auerswald, Phillip &amp; Lewis Branscomb. (2003). 'Valleys of death and Darwinian seas: financing the invention to innovation transition in the United States' <i>Journal of Technology Transfer</i>, 28(3-4): 227-39.</li> <li>Wray, Randall &amp; Yeva Nersisyan. (2016). 'Understanding money and macroeconomic policy' In M. Mazzucato &amp; M. Jacobs (eds.) <i>Rethinking capitalism: economics and policy for sustainable and inclusive growth</i>. Wiley. (pp. 47-65).</li> </ul> <p><b>Recommended reading:</b></p> <ul style="list-style-type: none"> <li>Lazonick, William &amp; Tulum Öner. (2011). 'US biopharmaceutical finance and the sustainability of the biotech business model' <i>Research Policy</i>, 40(9): 1170-87.</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>Hallen, Benjamin, Susan Cohen &amp; Sung Ho Park. (forthcoming). 'Are seed accelerators status springboards for startups? Or sand traps? <i>Strategic Management Journal</i>.</li> <li>Badía, Guillermo, Maria C. Cortez &amp; Luis Ferruz. (2020). 'Socially responsible investing worldwide: Do markets value corporate social responsibility?' <i>Corporate Social Responsibility and Environmental Management</i>, 27(6): 2751-64.</li> </ul>

			<ul style="list-style-type: none"> <li>Ó'Rian, Seán. (2014). 'Capital: the triumph of finance' In <i>The rise and fall of Ireland's Celtic tiger</i>. Cambridge. (pp. 68-113).</li> <li>Anand, Anita.(2010) In G.Hale &amp; M. Gattinger (eds.) <i>Borders and bridges: Canada's policy relations in North America</i>. Oxford. (pp. 289-305).</li> <li>Zysman, John. (1983). 'Finance and the politics of industry' In <i>Governments, markets and growth</i>. Cornell. (pp. 55-95).</li> </ul>
<b>Week 9 (21/3/23)</b>	in-person	<b>governing compensation</b> dealing with losers from creative destruction	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>Trebilcock, Michael. (2014). 'Climate change policy: managing more heat in the world's kitchens' In <i>Dealing with losers: the political economy of policy transitions</i>. Oxford. (pp. 119-37).</li> <li>Iversen, T &amp; Soskice, D. (2019). 'The politics of the knowledge economy and the rise of populism' In <i>Democracy and prosperity: reinventing capitalism through a turbulent century</i>. Princeton. (pp. 216-56).</li> <li>Aghion, Phillipe, Céline Antonin &amp; Simon Bunel. (2021). 'Conclusion: the future of capitalism' In <i>The power of creative destruction</i>. Harvard. (pp. 312-20).</li> </ul> <p><b>Recommended reading:</b></p> <ul style="list-style-type: none"> <li>Campbell, John &amp; Ove Pedersen. (2007). 'Institutional competitiveness in the global economy: Denmark, the United States, and the varieties of capitalism' <i>Regulation &amp; Governance</i>, 1(3): 230-46.</li> <li>Herrmann, Andrea &amp; Alexander Peine. (2011). 'When "national innovation system" meet "varieties of capitalism" arguments on labour qualifications: On the skill types and scientific knowledge needed for radical and incremental product innovations' <i>Research Policy</i>, 40(5): 687-701</li> <li>Mokyr, Joel. (1994). 'Cardwell's Law and the political economy of technological progress' <i>Research Policy</i>, 23(5): 561-74.</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>Suleman, Fatima et al. (2022) 'Compensation policies and comparative capitalisms' <i>European Journal of Industrial Relations</i>, 28(4): 405-25.</li> <li>Dosi, Giovanni et al. (2022). 'Technological paradigms, labor creation and destruction in a multi-sector agent-based model' <i>Research Policy</i>, 51(10): 1-22.</li> <li>Grossman, Gene &amp; Ezra Oberfield. (2022). 'The elusive explanation for the declining labor share' <i>Annual Review of Economics</i>, 14(1): 93-124.</li> <li>International Energy Agency. (2022). <i>Skills development and inclusivity for clean energy transitions</i>.</li> <li>Mellacher, Patrick &amp; Timon Scheuer. (2021). 'Wage Inequality, labor market polarization and skill-biased technological change: an evolutionary (agent-based) approach' <i>Computational Economics</i>, 58(2): 233-78.</li> <li>Graeber, David. (2020). 'Policy for the future of work' In R. Skidelsky &amp; N. Craig (eds.) <i>Work in the future</i>. Palgrave. (pp. 157-76).</li> <li>Bussemeyer, Marius &amp; Garritzmann, Julian. (2019). 'Compensation or social investment? Revisiting the link</li> </ul>

			<p>between globalisation and popular demand for the welfare state.' <i>Journal of Social Policy</i>, 48(3): 427-48.</p> <ul style="list-style-type: none"> <li>• Wilder, Matt. (2018). 'Debating basic income' <i>Canadian Journal of Political Science</i>, 51(2): 279-303.</li> <li>• Osterman, Paul &amp; Andrew Weaver. (2014). 'Skills and skill gaps in manufacturing' and 'The New Skill Production System: Policy Challenges and Solutions in Manufacturing Labor Markets' In R. Locke &amp; R. Wellhausen (eds.) <i>Production in the innovation economy</i>. MIT. (pp. 17-80).</li> <li>• Martin, Cathie Jo &amp; Duane Swank, D. (2012). Employers, coordination and active labour market policy in postindustrial Denmark' In <i>The political construction of business interests</i>. Cambridge. (pp. 170-88).</li> <li>• Martin, C &amp; Swank, D. (2012). Employers and active labour market policy in postindustrial Britain' In <i>The political construction of business interests</i>. Cambridge. (pp. 189-207).</li> <li>• Stanford, Jim. (2000). 'Canadian labour market developments in international context: flexibility, regulation and demand' <i>Canadian Public Policy</i>, 26(1): S27-58.</li> <li>• Card, David &amp; John DiNardo. (2002). Skill-biased technological change and rising wage inequality: some problems and puzzles. <i>Journal of Labour Economics</i>, 20(4): 733-83.</li> <li>• Streeck, Wolfgang. (1992). 'Revisiting status and contract: pluralism, corporatism and flexibility' In <i>Social institutions and economic performance</i>. Sage. (pp. 41-75).</li> </ul>
<b>Week 10 (28/3/23)</b>	in-person	<b>governing just transitions</b>	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>• Swilling, Mark. (2020). 'Developmental states and sustainability transitions' In <i>The age of sustainability: just transitions in a complex world</i>. Earthscan. (pp. 195-226).</li> <li>• Kaplinsky, Raphael. (2021). 'Transformative change in practice' In <i>Sustainable futures: an agenda for action</i>. Polity. (pp. 144-73).</li> <li>• Mason, Paul. (2015). 'Project zero' In <i>Postcapitalism: a guide to our future</i>. FSG Press. (pp. 263-92)</li> </ul> <p><b>Recommended reading:</b></p> <ul style="list-style-type: none"> <li>• Brzezinski, Michael. (2022). 'Does income redistribution impede innovation?' <i>Research Policy</i>, 51(10): 1-8.</li> <li>• Juárez, Paula, Florencia Trentini &amp; Lucas Becerra. (2018). 'Transformative social innovation for food sovereignty: the disruptive alternative' <i>International Journal of Sociology of Agriculture and Food</i>, 24(3): 319-36</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>• Natural Resources Canada. (2021). 'People-centred just transition: discussion paper' Government of Canada.</li> <li>• Stanford, Jim. (2021). 'Employment transitions and the phase-out of fossil fuels' Centre for Future Work.</li> <li>• Woo, Jaejoon. (2020). 'Inequality, redistribution, and growth: new evidence on the trade-off between equality and efficiency' <i>Empirical Economics</i>, 58(6): 2667-2707</li> <li>• Zehavi, Amos &amp; Dan Breznitz. (2017). 'Distribution sensitive innovation policies: conceptualization and empirical examples' <i>Research Policy</i>, 46(1): 327-36.</li> </ul>

			<ul style="list-style-type: none"> <li>• Binmore, Ken. (2004). 'Reciprocity and the social contract' <i>Politics, Philosophy &amp; Economics</i>, 3(1): 5-35</li> <li>• Daly, Herman. (1997). 'Georgescu-Roegen versus Solow/Stiglitz' <i>Ecological Economics</i>, 22(3): 261-66.</li> <li>• Georgescu-Roegen, Nicholas. (1975). 'Energy and economic myths' <i>Southern Economic Journal</i>, 41(3): 347-81.</li> </ul>
<b>Week 11 (4/4/23)</b>	in-person	<b>geo-political governance</b>	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>• Mazzucato, Mariana. (2018). <i>Mission-oriented research and innovation in the European Union: a problem-solving approach to fuel innovation-led growth</i>. European Commission Directorate-General for Research and Innovation.</li> <li>• Klein, Matthew &amp; Michael Pettis. (2020). 'Conclusion: to end the trade wars, end the class wars' In <i>Trade wars are class wars</i>. Yale. (pp. 121-32).</li> <li>• Tingley, Dustin &amp; Michael Tomz. (2022). 'The effects of naming and shaming on public support for compliance with international agreements: an experimental analysis of the Paris Agreement' <i>International Organization</i>, 76(2): 445-68.</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>• Vogelpohl, Thomas (forthcoming). 'Understanding the bioeconomy through its instruments: standardizing sustainability, neoliberalizing bioeconomies?' <i>Sustainability Science</i>.</li> <li>• Ito, Keiko et al. (2023). 'Global value chains and domestic innovation' <i>Research Policy</i>, 52(3): 1-22.</li> <li>• United Kingdom. (2021). 'Aligning UK international support for the clean energy transition' UK Government.</li> <li>• Eckert, Sandra. (2021). 'Varieties of framing the circular economy and the bioeconomy: unpacking business interests in European policymaking' <i>Journal of Environmental Policy &amp; Planning</i>, 23(2): 181-93.</li> <li>• Diercks, Gijs, Henrik Larsen &amp; Fred Steward. (2019). 'Transformative innovation policy: addressing variety in an emerging policy paradigm' <i>Research Policy</i>, 48(4): 880-94.</li> <li>• Ortiz Cebolla, Rafael &amp; Carlos Navas. (2019). 'Supporting hydrogen technologies deployment in EU regions and Member States: The Smart Specialisation Platform on Energy (S3PEnergy)' <i>International Journal of Hydrogen Energy</i>, 44(35): 19067-79.</li> <li>• Taylor, Mark Zachary. (2016). 'Critical cases of creative insecurity' In <i>The politics of innovation: why some countries are better than others at science and technology</i>. Oxford. (pp. 243-74).</li> <li>• Shaffer, Gregory. (2015). 'How the World Trade Organization shapes regulatory governance' <i>Regulation &amp; Governance</i>, 9(1): 1-15.</li> <li>• Koop, Christel &amp; Martin Lodge. (2014). 'Exploring the co-ordination of economic regulation' <i>Journal of European Public Policy</i>, 21(9): 1311-29.</li> <li>• Prakash, Aseem &amp; Matthew Potoski. (2014). 'Global private regimes, domestic public Law: ISO 14001 and pollution reduction' <i>Comparative Political Studies</i>, 47(3): 369-94.</li> </ul>



			<ul style="list-style-type: none"> <li>Gereffi, Gary, John Humphrey &amp; Timothy Sturgeon. (2005). 'The governance of global value chains' <i>Review of International Political Economy</i>, 12(1): 78-104.</li> <li>Vogel, David. (2000). 'Environmental regulation and economic integration' <i>Journal of International Economic Law</i>, 3(2): 265-79.</li> <li>Harrison, Kathryn. (1996). 'The regulator's dilemma: regulation of pulp mill effluents in the Canadian federal state' <i>Canadian Journal of Political Science</i>, 29(3): 469-96.</li> <li>Haas, Peter. (1989). 'Do regimes matter? Epistemic communities and Mediterranean pollution control' <i>International Organization</i>, 43(3): 377-403.</li> <li>Haas, Ernst. (1975). 'On systems and international regimes' <i>World Politics</i>, 27(2): 147-74.</li> </ul>
<b>Week 12 (11/4/23)</b>	in-person	<p><b>governing innovation through the welfare state</b></p> <p><i>Guest presentation by David Asgeirsson and Rafal Janik, Xanadu</i></p>	<p><b>Required reading:</b></p> <ul style="list-style-type: none"> <li>García-García, Pablo, Luis Buendía &amp; Óscar Carpintero. (2022). 'Welfare regimes as enablers of just energy transitions: revisiting and testing the hypothesis of synergy for Europe' <i>Ecological Economics</i>, 197: 1-14.</li> <li>Ornston, Darius. (2014). 'From social protection to skill formation: diversified high-tech production in Denmark' In <i>When small states make big leaps</i>. Cornell. (pp. 92-125).</li> <li>Evans, Peter. (2014). 'The capability enhancing developmental state: concepts and national trajectories' In <i>The South Korean Development Experience: Beyond Aid</i>. Palgrave Macmillan. (pp. 83-110).</li> </ul> <p><b>Recommended reading:</b></p> <ul style="list-style-type: none"> <li>Aghion, Phillipe, Céline Antonin &amp; Simon Bunel. (2021). 'The investor state and the insurer state' In <i>The power of creative destruction</i>. Harvard. (pp. 272-88).</li> </ul> <p><b>Further reading:</b></p> <ul style="list-style-type: none"> <li>Tomaskovic-Devey, Donald et al. (2020). 'Rising between-workplace inequalities in high-income countries' <i>Proceedings of the National Academies of Sciences</i>, 117(17): 9277-83.</li> <li>Koch, Max. (2020). 'The state in the transformation to a sustainable postgrowth economy' <i>Environmental Politics</i>, 29(1): 115-33.</li> <li>Beiler, Andreas. (2018). 'Agency and the power resources approach: asserting the importance of the structuring conditions of the capitalist social relations of production' <i>Global Labour Journal</i>, 9(2): 243-48.</li> <li>Gough, Ian. (2016). 'Welfare states and environmental states: a comparative analysis' <i>Environmental Politics</i>, 25(1): 24-47.</li> <li>Iversen, Torbin &amp; John Stephens. (2008). 'Partisan Politics, the Welfare State, and Three Worlds of Human Capital Formation' <i>Comparative Political Studies</i>, 41(4): 600-37.</li> <li>Streeck, Wolfgang. (1997). 'Beneficial constraints: on the economic limits of rational voluntarism' In J. Hollingsworth &amp; R. Boyer <i>Contemporary Capitalism: The Embeddedness of Institutions</i>. Cambridge: 197-219.</li> </ul>

			<ul style="list-style-type: none"> <li>• Philo Kim, Byoung-Lo. (1994). 'Three worlds and one future? The Korean case of social development theory' In R. Rist (ed.) <i>The democratic imagination</i>. Routledge (pp. 265-80).</li> <li>• Trajtenberg, Manuel. (1989). 'The welfare analysis of product innovations, with an application to computed tomography scanners' <i>Journal of Political Economy</i>, 97(2): 444-79</li> </ul>
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## Course Drop Deadlines

The drop date for winter courses **February 27, 2023**. Dropping a course after these dates will result in a Late Withdraw (LWD) on your transcript. MGA2 students should ensure they have enough credits to graduate, before dropping a course. If you need to drop a course, please contact the MGA Program Coordinator, Megan Ball, at [mga@utoronto.ca](mailto:mga@utoronto.ca).

## Grading and Assessment

Final Grades in the course are given as letter grades. They reflect your overall performance in achieving the stated course learning objectives. Assessment on interim evaluations can take many forms and are intended to give you an indication of where you stand relative to others. This will allow you to make adjustments to your approach, your expectations, and your performance. Please contact your instructor if you would like more guidance on your individual course performance.

## Our original

Normally, students will be required to submit their course essays to the University's plagiarism detection tool for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their essays to be included as source documents in the tool's reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of this tool are described on the Centre for Teaching Support & Innovation web site (<https://uoft.me/pdt-faq>).

## Class Attendance

Students are expected to attend every class. Those who miss more than one-sixth of a course due to illness or personal circumstances should inform their instructor and/or MGA Program Coordinator immediately. Students who are regularly absent from class will be referred to the MGA Program Office.

## Accessibility Services

Academic accommodations and resources are available should you experience disability-related barriers that prohibit the demonstration of the knowledge and skills required to complete your academic program. These accommodations and resources are designed to provide equitable opportunities for students with disabilities to achieve their academic goals.

Disability-related accommodations are available through registration with the [University of Toronto's Accessibility Services](#). This helps maintain privacy and confidentiality, and provides students with support when requesting and accessing accommodations. Students who register with Accessibility Services may also be eligible for disability-related services/equipment.

Instructors will direct students who make disability-related accommodation requests to register with [Accessibility Services](#). Once you complete the registration process, you will work with an Advisor who can set you up with reasonable, disability-related accommodations and/or resources.

Students with accommodations have access to Letters of Accommodation that should be provided to course instructors outlining specific accommodations they can request within that course. For example, if a student is given more time to work on an assignment this would be outlined in their Letter of Accommodation. Any accommodations not outlined in

the letter from Accessibility Services are up to the instructor's discretion. Students can connect with their Accessibility Advisor to discuss their accommodations throughout the year.

Information about registering with [Accessibility Services](#) is available on the website and in the office's Graduate and Professional Program Handbook: <https://studentlife.utoronto.ca/task/read-the-handbook/> There's also a short video: <https://www.youtube.com/watch?v=hAq62lF4lPg&t=2s> If you're unsure whether you have a disability, please don't hesitate to connect with the office to discuss: [accessibility.services@utoronto.ca](mailto:accessibility.services@utoronto.ca)

## Other Academic Accommodations

Students may need to apply for an academic accommodation due to disability, illness, religious observance, or personal emergency.

Students who require consideration for missed academic work for **any non-disability related reason** (e.g., COVID, cold, flu and other illness or injury, family situation) should report their absence through the online absence declaration tool via [ACORN](#) – **until otherwise indicated by the University. A Verification of Illness form is not currently required, but may become required should the public health situation change.**

If a non-disability related accommodation request is made along with an absence declaration on ACORN, a resolution will be determined by the instructor. This may take the form of any alternate deliverable, deadline extension, re-weighted course grade calculation, make-up exam, or another solution deemed appropriate by the instructor. If an accommodation request is not made along with an absence declaration, the missed or late deliverable will be subject to an academic penalty. The extent of the penalty is at the discretion of the instructor.

**Note: Students are expected to request accommodations in advance of assignments or tests. Failure to do so may result in a late penalty being applied.**

## Mental Health and Wellness

The University of Toronto's [Student Mental Health Resource Guide](#) is an online tool where students can access various on-campus and off-campus mental health resources, including those listed below. The School of Graduate Studies has a dedicated counsellor for graduate students. Appointments may be booked with them by contacting the Health and Wellness Centre at 416-978-8030 or [info.hwc@utoronto.ca](mailto:info.hwc@utoronto.ca) and asking to be connected with the dedicated graduate student counsellor.

## Other Mental Health Resources

Feeling distressed? Are you in crisis? There's help. Call Good2Talk: 1-866-925-5454 (Ontario); text GOOD2TALK to 686868. Free, confidential helpline with professional counselling, information and referrals for mental health, addictions and well-being, 24/7/365. You can also contact [My Student Support Program \(MySSP\)](#) 1-844-451-9700 (North America); 001-416-380-6575 (Outside of North America) or the [U of T Employee & Family Assistance Program \(EFAP\)](#) 1-800-663-1142 (toll-free); 1-866-398-9505 (TTY); 604-689-1717 (collect). Visit "[Feeling Distressed?](#)" for more resources.

Are you in immediate danger? For Personal Safety – Call 911, then Campus Community Police\*  
UTSG Police: 416-978-2222 | U of T Mississauga Police: 905-569-4333 | U of T Scarborough Police 416-978-2222 |  
Centre for International Experience Safety Abroad 416-946-3929.

\*24/7/365; Campus Community Police can direct your call to the right service.

## Code of Behaviour on Academic Matters

Please read the University's [Code of Behaviour on Academic Matters](#). It applies to all your academic activities and courses. The Code prohibits all forms of academic dishonesty including, but not limited to, cheating, plagiarism, and the use of unauthorized aids. Violating the Code may lead to penalties up to and including suspension or expulsion from the

University. You are expected to know the Code and inform yourself of acceptable academic practices – ignorance of the Code or the acceptable academic practices is not a valid defense if you are accused of a violation.

### Academic Integrity

Case write-ups, papers, assignments and all other deliverables must be original work, giving credit to the work of others where appropriate. This applies to individual and group deliverables. All members of a group are accountable for the academic integrity of their submissions. You are encouraged to consult the following websites to ensure that you follow the appropriate rules. Ignorance of these rules is not a defense in cases of violations, which can result in very serious academic sanctions. Please visit the [University of Toronto Academic Integrity](#) and the [UofT Writing Centre Resources](#) websites for further detail and help on the proper use of citations.

### Group Work and Behaviour

You are expected to treat teamwork the same way as you would in any professional organization. This includes, but is not limited to:

- Contributing substantially and proportionally to each project
- Committing to a standard of work and level of participation agreed upon by the group
- Ensuring familiarity with the entire content of a group deliverable so that you can sign off on it with your name in its entirety as original work
- Accepting and acknowledging that assignments that are found to be plagiarized in any way will be subject to sanctions for all group members under the University's [Code of Behaviour on Academic Matters](#)
- Ensuring that all team members voice their opinions, thoughts, and concerns openly and in an inclusive and considerate environment
- Taking personal responsibility for voicing your own thoughts to enhance and contribute to team learning

If you encounter difficulties with any group member that cannot be resolved within the group, please contact your instructor for guidance. Your instructor may refer you to the MGA Program Director for further assistance.

### Use of Technology

Like any professional organization, the Munk School expects all of its members to behave responsibly and with courtesy and respect for others when using technology. The Munk School is committed to equity, human rights, and respect for diversity. All members of the learning environment in this course should strive to create an atmosphere of mutual respect where all members of our community can express themselves, engage with each other, and respect one another's differences. Please read the University's [Student Code of Conduct](#) and policy on the [Appropriate Use of Information and Communication Technology](#).