View Syllabus Information

Course Information				
Year	2021	School	School of Commerce	
Course Title	Management and Complexity 1			
Instructor	MALEN, Joel Baker			
Term/Day/Period	spring semester Thur.1			
Category		Eligible Year	3rd year and above Credits 2	
Classroom		Campus	waseda	
Course Key	1600004AF5	Course Class Code	01	
Main Language	L			
Class Modality Categories	Realtime Streaming			
Course Code	MANX481L			
First Academic disciplines				
Second Academic disciplines	Management			
Third Academic disciplines	Others			
Level	Final stage advanced-level undergraduate	Types of lesson	Lecture	

Syllabus Information

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Course Outline	Course Overview Managers today operate in a very challenging business environment. Rapid technological change in areas from AI to digitization, e nvironmental factors like climate change and health issues such as pandemics, to name but a few important challenges, make dev eloping effective business strategy difficult. Much of the challenge stems from the complexity of the world in which we live. It is co mposed of many different elements—including people, machines, natural ecosystems, governments to name but a few. These ele ments are interconnected, interacting with each other over time, changing both the environments in which they interact as well as themselves. Businesses are are also complex—they are self-organizing, nonlinear, feedback systems. Limitations in our ability to u nderstand how implications of decisions can emerge and unfold over time can complicate our ability to understand how effectively current business designs and decisions are producing intended results. The reality of a complex world means there can be no "be st" strategy or decision for a business under all circumstances. Unfortunately, many of the tools we learn in studying management do not sufficiently account for the complexity of the world, substantially reducing their effectiveness in helping promote desired bu siness outcomes. The purpose of this course is therefore to familiarize students with the complexity characterizing the modern wo rld and with management frameworks and research for addressing those challenges in order to position them to make more effect ve business management and strategy decisions in the contemporary global business environment. The course begins by introducing the concept of complexity and its relevance to natural and social systems. We then apply this un derstanding to several prominent management and business strategy challenges that result from complexity. Because standard t ools and frameworks for managing under uncertainty. Complexity is inherently a difficult concept for the human mind to understa
Objectives	Learning Objectives Students will become familiar with the general concept of complexity and understand its relevance in natural and social systems Students will understand important ways in which complexity influences management and business strategy design, decisions and outcomes Students will develop skills applying computational simulation modeling to understand complexity in domains relevant to management and busin ess strategy
Course Schedule	Students will become familiar with management frameworks and research for addressing the challenges posed by complexity to business This course will be delivered live online (via Zoom) in Spring 2021
	Course Schedule (tentative) Understanding Complexity Week 1. Course Introduction Week 2. Complexity in nature Week 3. Understanding complexity Week 4. History of complexity thinking Simulation and Management Applications Week 5. Introduction to computational simulation modeling Week 6. Social interaction and markets Week 7. Organizational complexity Week 8. Competition and strategy evolution Week 9. Complexity, networks and business Week 10. Innovation and diffusion Week 11. Natural ecosystems and business strategy I Week 12. Natural ecosystems and business strategy II Developing strategy in a complex world I Week 14. Business strategy in a complex world I

Week 15. Final Exam (in class)	
*schedule and topics subject to change	
Boulton, J. G., Allen, P. M., & Bowman, C. (2015). Embracing complexity: Strategic perspectives for an age of turbulence. OUP Oxford.	
Janssen, M. (2020) Introduction to Agent-Based Modeling with applications to social, ecological, and social-ecological systems	
Grade components (tentative) • Quizzes (20%) • Written Assignments (40%) • Final Exam (40%)	
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