# Course Literature

**Mandatory**

Wilensky, U., & Rand, W. (2016). *An Introduction to Agent-Based Modeling: Modeling Natural, Social, and Engineered Complex Systems with NetLogo (MIT Press).* MIT Press.

**Additional literature**

**About NetLogo platform:**

Railsback, S. F., & Grimm, V. (2011). *Agent-Based and Individual-Based Modeling: A Practical Introduction* (Edición: New.). Princeton: Princeton University Press.

**About ABMs:**

Axelrod, R. (1997). The Dissemination of Culture: A Model with Local Convergence and Global Polarization. *The Journal of Conflict Resolution*, *41*(2), 203-226.

Banos, A., Lang, C., & Marilleau, N. (2015). Agent-Based Spatial Simulation with NetLogo Volume 1 (1 edition). London: ISTE Press - Elsevier.

Bruch, E., & Atwell, J. (2013). Agent-Based Models in Empirical Social Research. Sociological Methods & Research.

Centola, D., & Macy, M. (2007). Complex Contagions and the Weakness of Long Ties. American Journal of Sociology, 113(3), 702-734.

Centola, D., Willer, R., & Macy, M. (2005). The Emperor’s Dilemma: A Computational Model of Self-Enforcing Norms. *American Journal of Sociology*, *110*(4), 1009-1040.

Deffuant, G., Huet, S., & Amblard, F. (2005). An Individual‐Based Model of Innovation Diffusion Mixing Social Value and Individual Benefit. *American Journal of Sociology*, *110*(4), 1041-1069.

Epstein J. (2006), Generative Social Science: Studies in Agent-Based Computational Modeling, Princeton, Princeton University Press.

Epstein, J. M. (1999). Agent-based computational models and generative social science. Complexity, 4(5), 41-60.

Epstein, J. M. (2007). Generative social science: Studies in agent-based computational modeling.

Epstein, J. M. (2008). Why Model? *Journal of Artificial Societies and Social Simulation*. Vol. 11, Num. 4.

Gilbert, N. (2007). Agent-based models. California: Sage Publications Ltd.

Gilbert, N., & Terna, P. (2000). How to build and use agent-based models in social science. *Mind & Society*, *1*(1), 57-72.

Gilbert, N., & Troitzsch, K. G. (2005). Simulation for the social scientist (2nd ed.). Glasgow: OpenUniversity Press.

Goldthorpe, J. H. (2001). Causation, Statistics, and Sociology. European Sociological Review, 17(1), 1-20.

Hedström, P., Ylikoski, P. (2010), “Causal Mechanisms in the Social Sciences”, Annual Review of Sociology, 36, pp. 49-67.

Helbing, D. (2012). Agent-based Modeling, in Helbing, D. Social Self-Organization. Agent-based Simulations and Experiments to Study Emergent Social Behavior, Springer-Verlag Berlin Heidelberg.

Helbing, D., & Balietti, S. (2013). How to Do Agent-Based Simulations in the Future: From Modeling Social Mechanisms to Emergent Phenomena and Interactive Systems Design. Rochester, NY: Social Science Research Network

León-Medina, F. (2017). “Analytical Sociology and Agent-Based Modeling: Is Generative Sufficiency Sufficient?”. *Sociological Theory*. Vol. 35, Issue 3, Pp. 157 – 178.

Luis Izquierdo, NetLogo 5.0 Quick Guide, (http://ccl.northwestern.edu/netlogo/resources.shtml)

Lytinen, S. L. and Railsback S. F. (2012), "The Evolution of Agent-based Simulation Platforms: A Review of NetLogo 5.0 and ReLogo".

Macy, M. W., & Willer, R. (2002). FROM FACTORS TO ACTORS: Computational Sociology and Agent-Based Modeling. Annual Review of Sociology, 28(1), 143–166.

Manzo, G. (2007), “Variables, mechanisms, and simulations: can the three methods be synthesized? A critical analysis of the literature”, Revue Française de Sociologie - An Annual English Selection -, 48, Supplement, pp. 35-71.

Manzo, G. (2007). Variables, Mechanisms, and Simulations: Can the Three Methods Be Synthesized?: A Critical Analysis of the Literature. Revue française de sociologie, 48, 35-71.

Miller J. H. and Page S. E. (2007), Complex Adaptive Systems: An Introduction to Computational Models of Social Life, Princeton, Princeton University Press.

Nikolai C. and Madey G. (2009), “Tools of the Trade: A Survey of Various Agent Based Modeling Platforms”, Journal of Artificial Societies and Social Simulation, 12(2)2.

Schelling, T. C. (1971). Dynamic models of segregation. *The Journal of Mathematical Sociology*, *1*(2), 143-186.

Schelling, T. C. (1978). Macromotives and Macrobehavior. Norton.

Squazzoni, F. (2010). The impact of agent-based models in the social sciences after 15 years of incursions. History of Economic Ideas, 18(2), 197–234.

Stefik, M., & Bobrow, D. G. (1985). Object-Oriented Programming: Themes and Variations. AI Magazine, 6(4), 40.

Tisue, S. and Wilensky U. (2004), "NetLogo: Design and implementation of a multi-agent modeling environment".

Wooldridge M. (2009). An Introduction to MultiAgent Systems. Wiley Publishing.