**Political Science 867**: **Event History**

**The Ohio State University, Spring 2017**

Professor: Dr. Janet M. Box-Steffensmeier                               Phone: 614-439-1009 (cell)

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***Note:* In order to view class materials, please log into Carmen.** (http://carmen.osu.edu)

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**Course Description**:

Due to the increasing availability of temporal data that enables research on change processes, recent years have seen a proliferation of temporal data. Yet the vast majority of empirical research focuses on static relationships (i.e. cross-sectional studies). Even when time series or panel data is analyzed, the temporal structure is deemphasized or ignored altogether. The result is a penchant for viewing data as though it is simply a mishmash of cross-sections with additional methodological complications involving autocorrelations. Such an oversimplification devalues the merits of *event* *history* *methods*, which are ideal for studying temporal change. They address both whether an event occurred and when the event occurred. For many research questions in social science, the timing or history of social change is at least as interesting as understanding the culminating event. Research designs incorporating “history” into their analyses yield greater analytical leverage than designs ignoring history. Event history analysis is longitudinal in nature and involves the statistical examination of longitudinal data collected on a set of observations. While a wide variety of statistical models may be constructed for event history data, all event history models have some fundamentally common features.

The dependent variable of event history analysis measures the *duration* of time that units spend in a state before *experiencing* some *event*. Generally, a researcher knows when the observations enter the process (i.e., when the history in question begins, and when, and whether or not, the process ends (with the occurrence or nonoccurrence of some event)). Analysts are typically interested in the relationship between the length of the observed duration and independent variables, or *covariates*, of theoretical interest. Following research, a statistical model can then be constructed to link the dependent variable to the covariates. Inferences may also be made regarding the influence of the covariates on the length of duration and occurrence (or nonoccurrence) of some event.

As scholars now recognize, these methods have many advantages and allow new questions to be addressed. Event history data is increasingly available in all areas of empirically oriented social science. Some applications include, but are not limited to: the duration of peace in certain contexts, the duration of unemployment, the length of time a government is in place, when a challenger enters a congressional race, the duration of congressional careers, when a policy is likely to be adopted by the states, or how long it takes to complete a dissertation. This course will investigate different models for a wide breadth of duration data, document the assumptions underlying these different models, and consider goodness-of-fit indices and diagnostic techniques, i.e., residual and specification analysis. We will discuss current state of the art research, including topics such as the treatment of *heterogeneity*, *event* *dependence*, and *spatial* *correlation*.

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**Software**

A variety of software can be used for this course with varying advantages and disadvantages, which will be discussed in class. Typical choices are STATA or R.

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**Texts**

***R\*\* = Required; RC = Recommended***

Box-Steffensmeier, Jan and Bradford Jones. 2004. *Event History Modeling.* Cambridge University Press. **R\*\***

Blossfeld, Hans-Peter, Gotz Rohwer, and Katrin Golsch. 2007. *Event History Analysis with Stata.* Hillsdale, NJ: Erlbaum. **RC**

Cleves, Mario, William W. Gould, and Roberto Gutierrez. 2010*. An Introduction to Survival Analysis Using Stata*, 3rd ed. Stata Press. **RC**

Hosmer, David W., and Stanley Lemeshow. 2008. *Applied Survival Analysis: Regression Modeling of Time*, 2nd ed. New York: John Wiley & Sons. **RC**

Klein, John P., and Marvin L. Moeschberger. 2010. *Statistics for Biology and Health*, 3rd ed. New York: Springer-Verlag. **RC**

Mills, Melinda. 2011. Introducing Survival and Event History Analysis. Thousand Oaks, CA: Sage Publishing.

Singer, Judith D., and John B. Willett. 2003. *Applied Longitudinal Data Analysis: Modeling Change and Event Occurrence*. Oxford: Oxford University Press. **RC**

Therneau, Terry and Patricia Grambsch. 2000. *Modeling Survival Data: Extending the Cox Model.* New York: Springer-Verlag. **RC**

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**Grading:**

Grading will be based on class presentations of a recently published article or conference paper using event history. Please consult me prior to choosing the article to avoid duplication. Articles on the required or recommend lists should be used, though I am happy to discuss articles that are not listed (particularly interdisciplinary articles). **NOTE**: All discussion articles become required reading for the class. Applications and related discussion is critical to learning the material.

* Your presentation: **10%**
* Data analysis assignments (three total; *30%* each): **90%**

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**Course Overview**

***R\*\* = Required; RC = Recommended***

**Topic 1: Event History Models: Introduction and Overview**

I-a| Chapter 1 & 2, Box-Steffensmeier & Jones **R\*\***

I-b| Box-Steffensmeier, Janet M. and Brad Jones. 1997. “Time is of the Essence: Event History Models in Political Science.” *American Journal of Political Science* 41 (October): 1414-1461. **R\*\***

I-c| Chung, Ching-Fan, Peter Schmidt, and Ann D. Witte. 1991. “Survival Analysis: A Survey.” *Journal of Quantitative Criminology* 7 (March):59-98. **R\*\***

I-d| Aidt, T. S., & Jensen, P. S. (2009). The taxman tools up: An event history study of the introduction of the personal income tax. Journal of Public Economics, 93 (1-2), 160-175.  **RC**

I-e| Crawford, D. M., Whitbeck, L. B., & Hoyt, D. R. (n.d.). Propensity for Violence Among Homeless and Runaway Adolescents: An Event History Analysis. Crime & Delinquency. **RC**

I-f| Kiefer, Nicholas. 1988. “Economic Duration Data and Hazard Functions.” *Journal* *of* *Economic* *Literature*, 26:646-79. **RC**

I-g| King, Gary, James Alt, Michael Laver and Nancy Burns. 1990. “A Unified Model of Cabinet Dissolution in Parliamentary Democracies.” *American Journal of Political Science* 34 (4): 847-871. **RC**

I-h| Masuyama, M. (2007). The Survival of Prime Ministers and the House of Councillors. Social Science Japan Journal, 10 (1), 81 -93. **RC**

**Topic 2: Parametric Models**

II-a| Chapter 3, Box-Steffensmeier and Jones **R\*\***

II-b| Bennett, D. Scott. 1998. “Integrating and Testing Models of Rivalry Duration.” *American Journal of Political Science* 42 (October). **RC**

II-c| Bennett, D. Scott and Allan C. Stam. 1996. “The Duration of Interstate Wars, 1816-1985.” *American Political Science Review* 90 (June): 239-257.**RC**

II-d| Bennett, D. S., & Stam, A. C. (2009). Revisiting Predictions of War Duration. Conflict Management and Peace Science, 26 (3), 256 -267. **RC**

II-e| Bennett, D. Scott. 1997. “Measuring Rivalry Termination, 1816-1992.” *Journal of Conflict Resolution* 41 (April). **RC**

II-f| Bennett, D. Scott. 1997. “Testing Alternative Models of Alliance Duration, 1816-1984.” *American Journal of Political Science* 41 (July): 846-78. **RC**

II-g| Bergstrom, R. and P.-A. Edin. 1992. "Time Aggregation and the Distributional Shape of Unemployment Duration." *Journal of Applied Econometrics* 7 (Jan-Mar): 5-30. **RC**

II-h| Bueno de Mesquita, Bruce and Randolph M. Siverson. 1995. “War and the Survival of Political Leaders : A Comparative Study of Regime Types and Political Accountability.” *American Political Science Review* 89 (December): 841-855.**RC**

II-i| Thomas Däubler (2008). Veto Players and Welfare State Change: What Delays Social Entitlement Bills?. Journal of Social Policy, 37, pp 683-706 **RC**

II-j| Dendir, S. (2006). Unemployment Duration in Poor Developing Economies: Evidence from Urban Ethiopia. The Journal of Developing Areas, 40 (1), 181-201. **RC**

II-k| Quiroz Flores, A. (2009), The Political Survival of Foreign Ministers. Foreign Policy Analysis, 5: 117–133.

Warwick, Paul V. 1992. "Rising Hazards: An Underlying Dynamic of Parliamentary Government." *American Journal of Political Science* 36 (November): 857-876. **RC**

**Topic 3:** **Cox’s Proportional Hazards Model**

III-a| Chapter 4, Box-Steffensmeier & Jones **R\*\***

III-b| Box-Steffensmeier, Janet M., Peter Radcliffe, and Brandon Bartels. 2005. "The Incidence and Timing of PAC Contributions to Incumbent U.S. House Members, 1993-94." *Legislative Studies Quarterly.* 30 (4, November): 549-79. **R\*\***

III-c| Bienen, Henry and Nicolas van de Walle. 1992. "A Proportional Hazard Model of Leadership Duration." *Journal of Politics* 54 (August): 685-717. **RC**

III-d| Box-Steffensmeier, Janet. 1996. “A Dynamic Analysis of the Role of War Chests in Campaign Strategy.” *American Journal of Political Science* 40 (May): 352-371.**RC**

III-e| Box-Steffensmeier, Janet M., Laura W. Arnold and Christopher J. W. Zorn. 1997. “The Strategic Timing of Position Taking in Congress: A Study of the North American Free Trade Agreement.” *American Political* *Science Review* 91 (June): 324-338 **RC**

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III-f| From Armed Conflict to War: Ethnic Mobilization and Conflict Intensification, Kristine Eck, *International Studies Quarterly,* Vol. 53, No. 2 (June, 2009), pp. 369-388 **RC**

III-g| Hammons, Christopher. 1999. “Was James Madison Wrong? Rethinking the American Preference for Short, Framework-Oriented Constitutions.” *American Political* *Science Review* (December): 837. **RC**

III-h| Jun, K. (2007). Event History Analysis of the Formation of Los Angeles Neighborhood Councils. Urban Affairs Review, 43 (1), 107 -122. **RC**

III-i| Katz, Jonathan N. and Brian R. Sala. 1996. "Careerism, Committee Assignments, and the Electoral Connection." *American Political Science Review* 90 (March):21-33. **RC**

III-j| Katz, Lawrence F., and Bruce D. Meyer. 1990. "Unemployment Insurance, Recall Expectations, and Unemployment Outcomes." *Quarterly Journal of Economics* 105 (November):973-1002. **RC**

III-k| McCarty, Nolan and Rose Razaghian. 1999. "Advice and Consent: Senate Responses to Executive Branch Nominations." *American Journal of Political Science* 43 (October): 1122-1143. **RC**

III-l| Ragusa, J. M. (2010). The Lifecycle of Public Policy: An Event History Analysis of Repeals to Landmark Legislative Enactments, 1951-2006. American Politics Research, 38 (6), 1015 -1051. **RC**

III-m| Sy, Judy P., and Jeremy G. Taylor. 1999. "Estimation in a Cox Proportional Hazards Cure Model." Typescript. University of Michigan. **RC**

III-n| Warwick, Paul. 1992. "Economic Trends and Government Survival in West European Parliamentary Democracies." *American Political Science Review* 86 (December): 875-887. **RC**

**Topic 4: Discrete Time Formulations**

IV-a| Chapters 5 & 6 Box-Steffensmeier & Jones **R\*\***

IV-b| Allison, Paul D. 1984. *Event History Models*. Sage Press. **RC**

IV-c| Beauchemin, C., & Schoumaker, B. (2009). Are Migrant Associations Actors in Local Development? A National Event-History Analysis in Rural Burkina Faso. World Development, 37 (12), 1897-1913. **RC**

IV-d| Berry, Frances Stokes and William D. Berry. 1990. “State Lottery Adoptions As Policy Innovations: An Event History Analysis.” *American Political Science Review* 84 (June): 395-415. **RC**

IV-e| Beck, Nathaniel, Jonathan N. Katz, and Richard Tucker. 1998. “Taking Time Seriously: Time-Series-Cross-Section Analysis with a Binary Dependent Variable.” *American Journal of Political Science* 42 (October): 1260-88. **RC**

IV-f| Conrad, C. R. and Moore, W. H. (2010), What Stops the Torture? American Journal of Political Science, 54: 459–476. **RC**

IV-g| Daley, D. M. (2007), Voluntary Approaches to Environmental Problems: Exploring the Rise of Nontraditional Public Policy. Policy Studies Journal, 35: 165–180. **RC**

IV-h| Dassel, Kurt and Eric Reinhardt. 1999. "Domestic Strife and the Initiation of Violence at Home and Abroad." *American Journal of Political Science* 43 (January). **RC**

IV-i| Gasiorowski, Mark J. 1995. "Economic Crisis and Political Regime Change: An Event History Analysis." *American Political Science Review* 89 (December): 882-897. **RC**

IV-j| Goertz, Gary and Paul F. Diehl. 1995. "The Initiation and Termination of Enduring Rivalries: The Impact of Political Shocks." *American Journal of Political Science* 39 (February): 30-52. **RC**

IV-k| Grattet, Ryken, Valerie Jenness and Theodore R. Curry. 1998. “The Homogenization And Differentiation of Hate Crime Law in the United States, 1978-1995: Innovation and Diffusion in the Criminalization of Bigotry.” *American Sociological Review* 63 (April): 286-307. **RC**

IV-l| Who Survives on Death Row? An Individual and Contextual Analysis. David Jacobs, Zhenchao Qian, Jason T. Carmichael and Stephanie L. Kent. *American Sociological Review.* Vol. 72, No. 4 (Aug., 2007), pp. 610-632 **RC**

IV-m| Kennedy, Ryan. 2009. Survival and Accountability: An Analysis of the Empirical Support for “Selectorate Theory”. *International Studies Quarterly* 53, no. 3:695-714. **RC**

IV-n| Long, J. Scott, Paul D. Allison and Robert McGinnis. 1993. "Rank Advancement in Academic Careers: Sex Differences and the Effects of Productivity" *American Sociological Review* 58 (October): 703-722. **RC**

IV-o| Mintrom, Michael. 1997. "Policy Entrepreneurs and the Diffusion of Innovation." *American Journal of Political Science* 41 (July): 738-770. **RC**

IV-p| Mooney, Christopher Z., and Mei-Hsien Lee. 1995. "Legislative Morality in the American States: The Case of Pre-*Roe* Abortion Reform." *American Journal of Political Science* 39 (August): 599-627. **RC**

IV-q| Peterson, David A.M., Lawrence J. Grossback, James A. Stimson, and Amy Gangl. 2003. “Congressional Response to Mandate Elections.” American Journal of Political Science. 47 (3): 411-26. **RC**

IV-r| Werner, Suzanne. 1999. "The Precarious Nature of Peace: Resolving the Issues, Enforcing the Settlement, and Renegotiating the Terms." *American Journal of Political Science* 43 (July): 912-934. **RC**

IV-s| Xianghong Li, & Barry Smith. (2010). Diagnostic Analysis and Computational Strategies for Estimating Discrete Time Duration Models - A Monte Carlo Study. **RC**

**Topic 5: Model Selection, Assessment, Specification, & Diagnostic Methods**

V-a| Chapters 7, 8, & 9, Box-Steffensmeier & Jones **R\*\***

V-b| Park, Sunhee, and David J. Hendry. 2015. “Reassessing Schoenfeld Residual Tests of Proportional Hazards in Political Science Event History Analysis.” American Journal of Political Science 59(4): 1072-1087. R\*\*

V-c| Alt, James, and Gary King. 1994. “Transfers of Governmental Power: The Meaning of Time Dependence.” *Comparative Political Studies* 27 (2): 190-210. **RC**

V-d| Beck, Nathaniel. “Modeling Space and Time: The Event History Approach.” In Research Strategies in the Social Sciences, Elinor Scarbrough and Eric Tanenbaum, eds. Oxford: Oxford University Press. **RC**

V-e| Beck, Nathaniel, and Simon Jackman. 1998. “Beyond Linearity by Default: Generalized Additive Models.” *American Journal of Political Science* 42 (April). **RC**

V-f| Bennett, D. Scott. 1999. “Parametric Models, Time-Dependence, and Time-Varying Data Revisited.” *American Journal of Political Science* 43 (January). **RC**

V-g| Box-Steffensmeier, Janet M., Dan Reiter, and Christopher J.W. Zorn. 2003. "Nonproportional Hazards and Event History Analysis in International Relations." *Journal of Conflict Resolution*. **RC**

V-h| Box-Steffensmeier, Janet M., and Christopher J. W. Zorn. "Duration Models and Proportional Hazards in Political Science."*American Journal of Political Science*. 45 (October): 951-67. **RC**

V-i| Chiozza, Giacomo, and H.E. Goemans. 2004. “International Conflict and the Tenure of Leaders: Is War Still “Ex Post” Inefficient?” *American Journal of Political Science* 48 (3): 604-19. **RC**

V-k| Clark, David H., and Robert A. Hart, Jr. 1998. “Controlling Duration Dependence in Conflict Analyses: A Replication and Extension of ‘Regime Types and Status Quo Evaluations.’” *American Journal of Political Science* 42 (October). **RC**

V-l| Pardo-Fernández, J. C., Van Keilegom, I. and González-Manteiga, W. (2007), Goodness-of-fit tests for parametric models in censored regression. Canadian Journal of Statistics, 35: 249–264. **RC**

V-m| Warwick, Paul and Stephen T. Easton. 1992. “The Cabinet Stability Controversy: New Perspectives on a Classic Problem.” *American Journal of Political Science* 36 (February): 122-146. **RC**

V-n| Zorn, Christopher J.W. 2000. "Modeling Duration Dependence." *Political Analysis*. **RC**

V-o| Keele, Luke. 2010. “Proportionally Difficult: Testing for Nonproportional Hazards in Cox Models.” Political Analysis 18(2): 189-205.

V-p| Licht, Amanda. 2011. “Change Comes with Time: Substantive Interpretation of Nonproportional Hazards in Event History Analysis. Political Analysis 19(2): 227-243.

**Topic 6: Multiple Events**

VI-a| Diermeier, Daniel, and Randy T. Stevenson. 1999. “Cabinet Survival and Competing Risks.” *American Journal of Political Science* (October). **R\*\***

VI-b| Box-Steffensmeier, Janet M., Suzanna Linn, and Corwin D. Smidt. 2014. “Analyzing the Robustness of Semi-Parametric Duration Models for the Study of Repeated Events.” Political Analysis 22(2): 183-204.

VI-c| Boehmke, F. J. (2009). Policy Emulation or Policy Convergence? Potential Ambiguities in the Dyadic Event History Approach to State Policy Emulation. The Journal of Politics, 71 (3), 1125-1140.

**VI-d| Flores, A. (2008). Copula functions and bivariate distributions for survival analysis: An application to political survival.**

VI-e| Frederiksen, A., Honoré, B. E., & Hu, L. (2007). Discrete time duration models with group-level heterogeneity. Journal of Econometrics, 141 (2), 1014-1043.

VI-f| Metzger, Shawna K. and Benjamin T. Jones. Forthcoming. “Surviving Phases: Introducing Multistate Survival Models.” Political Analysis doi:10.1093/pan/mpw025

**Topic 7:** **Advanced Topics, Including: Heterogeneity, Multilevel, and Spatial Models**

VII-a| Chapters 10 & 11, Box-Steffensmeier & Jones **R\*\***

VII-b| Box-Steffensmeier, Janet M., and Suzanna De Boef. 2006.“Repeated Events Survival Models: The Conditional Frailty Model.” *Statistics in Medicine*. 25 (20, October): 3518-3533. **R\*\***

VII-c| Darmofal, D. (2009). Bayesian Spatial Survival Models for Political Event Processes. American Journal of Political Science, 53(1), 241-257. **R\*\***

VII-d| Hays, Jude C., Emily U. Schilling, and Frederick J. Boehmke. 2015. “Accounting for Right Censoring in Interdependent Duration Analysis.” Political Analysis 23: 400-414.

VII-e| Nicoletti, C., & Rondinelli, C. (2010). The (mis)specification of discrete duration models with unobserved heterogeneity: A Monte Carlo study. Journal of Econometrics, 159 (1), 1-13. **RC**

VII-f| Andersen, Per Kragh. 2010. “Pseudo-observations in Survival Analysis.” Statistcal Methods in Medical Research. 19:71-99. **RC**

VII-g| Battu, H., Ma, A. and Phimister, E. (2008), Housing Tenure, Job Mobility and Unemployment in the UK. The Economic Journal, 118: 311–328. **RC**

VII-h| Box-Steffensmeier, Janet M., and Christopher J.W. Zorn. "Duration Models for Repeated Events." *The Journal of Politics*. 64 (November): 1069-94. **RC**

VII-i| Chung, Ching-Fan, Peter Schmidt, and Ann D. Witte. 1991. “Survival Analysis: A Survey.” *Journal of Quantitative Criminology* 7 (March):59-98. **RC**

VII-j| de Nooy, Wouter. 2011. “Networks of Action and Events over Time. A Multilevel Discrete-Time Event History Model for Longitudinal Network Data.” Social Networks 33(1): 31-40. RC

VII-k| Stewart, CH. Multilevel Modelling of Event History Data: Comparing Methods Appropriate for Large Datasets. 2010. **RC**

VII-l| Strang, David and Nancy Brandon Tuma. 1993. "Spatial and Temporal Heterogeneity in Diffusion." *American Journal of Sociology* 99 (November): 614-639. **RC**

VII-m| Voelkle, M. C., & Sander, N. (2008). University Dropout: A Structural Equation Approach to Discrete-Time Survival Analysis. Journal of Individual Differences, 29 (3), 134-147. **RC**

VII-n| Zhang, Zahingang. 2010. “Interval Censoring.” Statistical Methods in Medical Research, 19:53-70 **RC**