

CBS applications are submitted via your ABAI portal. This reference document contains all the information you must provide to apply for a CBS Concentration. Once you submit your completed CBS Concentration application, you will be required to pay the corresponding fee. The application will be reviewed within 30 days. Applicants will be contacted if additional information is required.

# **Fee Schedule**

	US Graduate	US Undergraduate	Non-US Graduate or Undergraduate	ABAI Accredited Programs
Application Fee	\$500	\$250	\$125	\$0
Annual Sustaining Fee	\$250	\$125	\$65	\$0

The CBS concentration contains three main content areas with course objectives, course items, competencies, and readings. A program may adopt the CBS requirements in entirety or submit alternative contents, such as readings or competencies, for consideration during the application process. The program must demonstrate the alternative contents meet the content area and item requirements. The course credits may be arranged differently per institution. Typically, institutions in the United States full 45 hours in a 3-credit course. Non-U.S. institutions must fulfill this requirement equally, according to discipline, credit hours, ECTS, or other systems, and according to national requirements/standards.

# Institution

Name of CBS Concentration: Institution Name: Department Type: Behavior Analysis, Education, Psychology, Special Education, Other • If other, specify: Department Name: Program Name: Program Website: Street Address: City: State/Province: Zip/Postal Code: Country: Coursework Level: undergraduate/graduate Mode of Instruction: online, on-campus, hybrid, both on-campus and online Sequence Structure: stand-alone course sequence/embedded within a degree program, both Credit System: semester, quarter, other • If other, specify:

# Coordinator

See CBS Coordinator Qualifications <u>here</u>. First Name, Last Name, Email

# **Course Instructor List**

See CBS Instructor Qualifications here. For each instructor, provide the following details. All instructors must complete an affidavit.

First Name, Last Name, Email

# **Course List**

For each course in the CBS concentration, provide the following details. You will also be required to upload the syllabus for each course.

Course number: Course name: Alternate course number(s): Alternate course name(s): Credit hours: Credit level: Mode of instruction: Class start date: Class end date: Term: Year:

For each course, enter the number of hours covered in each content area. Select the competencies assessed within each course objective item. Then, select the course readings or submit other readings not listed in the application.

### Basic Principles in Behavior Analysis

As a prerequisite, students will demonstrate satisfactory completion of a class in Basic Principles in Behavior Analysis to provide students with common language and basic knowledge.

#### **Content Hours:**

• 45 hours required

#### Course objectives:

- Identify the main concepts of behavior analysis
- Analyze behavior using such concepts
- Discuss the implications of these concepts to experimental and applied research

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
Items 1. Selection by consequences (phylogeny, ontogeny, and culture)	<ul> <li>Competencies</li> <li>Identify each level of selection.</li> <li>Describe the relation between each level.</li> <li>Identify the subject of matter of behavior analysis in each level.</li> <li>Relate levels of selection to the analysis of psychological phenomena</li> </ul>	Core/Foundational Readings Skinner, B. F. (1981). Selection by consequences. Science, 213, 501-504. Killeen, P. R. (2001). The Four Causes of Behavior. <i>Current Directions</i> <i>in Psychological Science</i> , 10(4), 136–140	<ul> <li>Moore, J. (2011). Behaviorism. The Psychological Record, 61, 449- 464.</li> <li>Morris, E.K., Todd, J.T., Midgley, B.D., Schneider, S.M., &amp; Johnson, L.M. (1990). The history of behavior analysis: Some historiography and a bibliography. Behavior Analyst, 13, 131-158.</li> <li>Neuringer, A. (1991). Humble behaviorism. The Behavior Analyst, 14(1), 1–13.</li> <li>Baum, W. M. (2011). Behaviorism, private events, and the molar view of behavior. The Behavior</li> </ul>
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lte	ems	Co	mpetencies	Core/Foundational Readings	Suggested/Ancillary Readings
					s_and_behaviors?auto=downloa d
2.	Reflexes and Respondent Behavior	•	Recognize the main characteristics of respondent learning; Define the main topics related to respondent behavior (eliciting stimulus, unconditioned response, habituation, etc.)	Catania, A. C. (2013). Learning (5th Edition). Cornwall-on- Hudson, NY: Sloan Publishing. (Chapter 4, emitted and elicited behavior)	Pear, J. J., & Eldridge, G. D. (1984). The operant-respondent distinction: future directions. Journal of the Experimental Analysis of Behavior, 42(3), 453-467.
		•	Describe experimental work related to these concepts; Describe the importance of these concepts to applied settings;	Mazur, J. E. (2006). Learning and Behavior (6th Edition). New Jersey: Prentice Hall. (Chapters 2, 3 and 4)	Domjan, M. (2016). Elicited versus emitted behavior: Time to abandon the distinction. Journal of the Experimental Analysis of Behavior, 105(2), 231-245.
					Lattal, K. M. (2012). Pavlovian conditioning. APA handbook of behavior analysis, 1, 283- 306.
					Rescorla, R. A. (1988). Pavlovian Conditioning: It's Not What You Think It Is. American

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
3. Consequences of Behavior:	<ul> <li>Recognize the main characteristics of operant learning;</li> </ul>	Mazur, J. E. (2006). <i>Learning and Behavior</i> (6th Edition). New	Psychologist, 43(3), 151– 160. https://doi.org/10.1037/000 3-066X.43.3.151 Iwata, B. A. (2006). On the distinction between positive and negative
Reinforcement (positive and negative)	<ul> <li>Define the main topics related to operant behavior and its control by reinforcement (Positive Reinforcer, Negative reinforcer, extinction, etc.)</li> <li>Differentiate between operant and respondent behavior;</li> <li>Discuss critically the benefits and problems of control by reinforcement contingencies;</li> <li>Describe experimental work related to these concepts;</li> </ul>	Jersey: Prentice Hall. (Chapters 5, 7 and 8) Hineline, P.N. & Rosales-Ruiz, J. (2013). Behavior in relation to aversive events: Punishment and negative reinforcement. In G.J. Madden (Ed.), APA Handbook of Behavior Analysis: Vol. 1 Methods and Principles (pp. 33-64). Washington, DC: American Psychological Association.	reinforcement. The Behavior Analyst, 29(1), 121-123. Killeen, P. R., & Jacobs, K. W. (2017). Coal is not black, snow is not white, food is not a reinforcer: the roles of affordances and dispositions in the analysis of behavior. The Behavior Analyst, 40(1), 17-38. Shahan T. A. (2010). Conditioned reinforcement and response strength. Journal of the
	Describe the importance of these concepts to applied settings;		experimental analysis of behavior, 93(2), 269-89. Shahan, T. A. (2017). Moving beyond reinforcement and response strength. The Behavior Analyst, 40, 107-121.

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
			<ul> <li>Baron, A. &amp; Galizio, M. (2005). Positive and negative reinforcement: Should the distinction be preserved? The Behavior Analyst, 28, 85 – 98.</li> <li>Glenn, S. S., Ellis, J., &amp; Greenspoon, J. (1992). On the revolutionary nature of the operant as a unit of behavioral selection. American Psychologist, 47(11), 1329–1336. https://doi.org/10.1037/0003- 066X.47.11.1329</li> </ul>
4. Consequences of Behavior: Punishment (positive and negative)	<ul> <li>Define the main topics related to operant behavior and its control by punishment (Positive Punishment, Negative Punishment, etc.)</li> <li>Differentiate between control by reinforcement and punishment, especially relating it to negative reinforcement;</li> <li>Discuss critically the benefits and problems of control by punishment contingencies;</li> </ul>	Catania, A. C. (2013). <i>Learning (5<sup>th</sup> Edition)</i> . Cornwall-on-Hudson, NY: Sloan Publishing. (Chapter 5, 6, 7, 8)	Critchfield, T. S. (2014). Skeptic's corner: Punishment— destructive force or valuable social "adhesive"?. Behavior Analysis in Practice, 7, 36-44. Lerman, D. C. & Vorndran, (2002). On the status of knowledge for using punishment: Implications for treating behavior disorders. Journal of Applied Behavior Analysis, 35 (4), 431–464.

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	<ul> <li>Describe experimental work related to these concepts;</li> <li>Describe the importance of these concepts to applied settings;</li> </ul>		Rasmussen, E. B. & Newland, M. C. (2008). Asymmetry of reinforcement and punishment in human choice. Journal of the Experimental Analysis of Behavior, 89 (2), 157–167.
5. Schedules of Reinforcement and Choice	<ul> <li>Identify different schedules of reinforcement;</li> <li>Describe complex schedules of reinforcement;</li> <li>Describe experimental work related to these concepts;</li> <li>Describe the importance of these concepts to applied settings;</li> </ul>	<ul> <li>Mazur, J. E. (2006). Learning and Behavior (6th Edition). New Jersey: Prentice Hall. (Chapters 6, and 9)</li> <li>McDowell, J. J. (1988). Matching theory in natural human environments. The Behavior Analyst, 11(2), 95–109. Retrieved from</li> </ul>	<ul> <li>Reed, D. D., &amp; Kaplan, B. A. (2011). The matching law: A tutorial for practitioners. Behavior Analysis in Practice, 4(2), 15-24.</li> <li>Roscoe, E. M., Iwata, B. A., &amp; Kahng, S. (1999). Relative versus absolute reinforcement effects: Implications for preference assessments. Journal of Applied Behavior Analysis, 32, 479-493.</li> <li>Borrero, J. C., Crisolo, S. S., Tu, Q., Rieland, W. A., Ross, N. A., Francisco, M. T., &amp; Yamamoto, K. Y. (2007). An application of the matching law to social dynamics. Journal of Applied Behavior Analysis (Lawrence, KS), 40(4), 589-601.</li> </ul>

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
			Davison, M., & Baum, W. M. (2000). Choice in a variable environment: every reinforcer counts. Journal of the Experimental Analysis of Behavior (Bloomington, IN), 74(1), 1-24.
6. Basic Principles of Stimulus Control: Discrimination and Generalization	<ul> <li>Define Stimulus Control and its relation to operant behavior;</li> <li>Identify discrimination processes in operant behavior;</li> <li>Identify generalization processes in operant behavior;</li> <li>Describe experimental work related to these concepts;</li> <li>Describe the importance of these concepts to applied settings;</li> </ul>	<ul> <li>Terrace, H. S. (1966). Stimulus Control. Em W. K. Honig (Org.). Operant Behavior: Areas of Research and Application. New York: Appleton-Century-Kroft.</li> <li>Catania, A. C. (2013). Learning (5th Edition). Cornwall-on- Hudson, NY: Sloan Publishing. (Chapter 7, 11, 12)</li> <li>Edelstien, B.A. (1989). Generalization: Terminological, methodological, and</li> </ul>	Sidman, M. (2008). Reflections on stimulus control. The Behavior Analyst, 31, 127-135. Dube, W. V., MacDonald, R. F., Mansfield, R. C., Holcomb, W. L., & Ahearn, W. H. (2004). Toward a Behavioral Analysis of Joint Attention. The Behavior Analyst, 27, 197-207.

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
		conceptual issues. Behavior Therapy, 20, 311-324.	
7. Equivalence Stimuli Classes and Relational Learning	<ul> <li>Identify different cases of stimulus control: Equivalence Stimuli and Relational Learning;</li> <li>Describe differences between the different operations or processes in Stimulus Control;</li> <li>Describe experimental work related to these concepts;</li> <li>Discuss the main theoretical debate involving: naming hypothesis, relational frame theory and equivalent relations based on direct act contingency;</li> <li>Describe the importance of these concepts to applied settings;</li> </ul>	<ul> <li>Cumming, W. W. e Berryman, R. (1965). The complex discriminated operant: Studies of matching-to-sample and related problems. Em D. I. Mostofsky (Org.). Stimulus Generalization. Stanford: Stanford University Press.</li> <li>Sidman, M. (2009). Equivalence relations and Behavior: A Tutorial. In The Analysis of Verbal Behavior, 25, 5-17.</li> <li>Barnes-Holmes, D., Finn, M., McEnteggart, C., &amp; Barnes- Holmes, Y. (2017, November 9). Derived stimulus relations and their role in a behavior- analytic account of human language and cognition. The Behavior Analyst.</li> </ul>	<ul> <li>Törneke, N. (2010). Derived relational responding as the fundamental element in human language. In Learning RFT: An introduction to relational frame theory and its clinical application (pp. 59 – 890. Oakland, CA: Context Press.</li> <li>Gross, A. C., &amp; Fox, E. J. (2009). Relational frame theory: An overview of the controversy. The Analysis of Verbal Behavior, 25, 87–98. https://doi.org/10.1007/BF033 93073</li> <li>McIlvane WJ, Dube WV. Naming as a facilitator of discrimination. J Exp Anal Behav. 1996 Jan;65(1):267–272</li> <li>Sidman M., Tailby, W. (1982). Conditional discrimination vs. matching to sample: an</li> </ul>

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
		doi:10.1007/s40614-017- 0124-7	expansion of the testing paradigm. Journal of the Experimental Analysis of Behavior, 37(1), 5–22.
		Horne, P.J., Lowe C.F. (1996). On the origins of naming and other symbolic behavior. Journal of the Experimental Analysis of Behavior, 65(1),185–241	Miguel, C. F. (2018, July 5). Problem- Solving, Bidirectional Naming, and the Development of Verbal Repertoires. Behavior Analysis: Research and Practice. Advance online publication. http://dx.doi.org/10.1037/bar0 000110.
8. Motivating operations (EOs, AOs)	<ul> <li>Differentiate stimulus control from motivating function;</li> <li>Define and identify different types of abolish and establishing operations;</li> <li>Identify effects of motivation operations over reinforcement and discriminative stimuli;</li> <li>Identify motivational operations related to conditioned or unconditional reinforcement;</li> <li>Describe experimental work related to these concepts;</li> </ul>	Michael J. (1982). Distinguishing between discriminative and motivating functions of stimuli. Journal of the Experimental Analysis of Behavior, 37, 149– 155. Miguel, C. F. (2013). Jack Michael's Motivation. The Analysis of Verbal Behavior, 29, 3-11.	Poling, A., Lotfizadeh, A., & Edwards, T. L. (2017). Predicting reinforcement: Utility of the motivating operations concept. The Behavior Analyst, 40, 49-56.

ltems	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	Describe the importance of these concepts to applied settings;		
9. Social Behavior	<ul> <li>Differentiate social behavior from non-social behavior;</li> <li>Define social stimuli and social reinforcement;</li> <li>Identify social behavior as an interlocking behavior contingency;</li> <li>Identify procedures to study social behavior;</li> <li>Describe experimental work related to these concepts;</li> </ul>	<ul> <li>Skinner, B. F. (1953). Science and Human Behavior (Cap 19, 20, 21). Cambridge, MA: B. F. Skinner Foundation.</li> <li>Schmitt, D. R. (1998). Social behavior. In K. Lattal &amp; M. Perone (Eds.), Handbook of research method in human operant behavior. (pp. 471-505). New York: Plenum Press.</li> </ul>	Guerin, B. (2001). Individuals as social relationships: 18 ways that acting alone can be thought of as social behavior. Review of General Psychology, 5(4), 406– 428. https://doi.org/10.1037/1089- 2680.5.4.406
	• Describe the importance of these concepts to applied settings;		
10. Verbal Behavior	<ul> <li>Differentiate verbal behavior from non-verbal behavior;</li> <li>Categorize verbal behavior based on functional categories and identify different contingencies in verbal operants (tact, mand, autoclitics, etc.);</li> <li>Identify procedures to study verbal behavior</li> </ul>	Vargas, E. A. (2007). B. F. Skinner's Verbal Behavior: An Introduction. Brazilian Journal of Behavioral and Cognitive Therapy, 9, 1-20. Skinner, B. F. (1957). Verbal behavior. Acton: Copley Publishing Group. (selected chapters)	<ul> <li>Plavnick, J. B., &amp; Normand, M. P. (2013). Functional analysis of verbal behavior: A brief review. Journal of Applied Behavior Analysis, 46, 349–353.</li> <li>Sautter, R. A., &amp; LeBlanc, L.A. (2006). Empirical applications of Skinner's analysis of verbal behavior with humans. The Analysis of Verbal Behavior, 22, 35–48.</li> </ul>

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	<ul> <li>Debate verbal behavior as social behavior;</li> <li>Describe experimental work related to these concepts;</li> <li>Describe the importance of these concepts to applied settings;</li> </ul>		Fryling, M. (2017). The functional independence of Skinner's verbal operants: Conceptual and applied implications. Behavioral Interventions 32, 70- 78.
			Grow, L.L, & Kodak, T. (2010). Recent research on emergent verbal behavior: Clinical applications and future directions. Journal of Applied Behavior Analysis, 43(4), 775-778. https://onlinelibrary.wiley.com/ doi/10.1901/jaba.2010.43-775
11. Rule Governed Behavior	<ul> <li>Identify rule-governed behavior in the context of operant analysis;</li> <li>Differentiate rule-governed behavior and behavior shaped directly by contact with non-verbal contingency;</li> <li>Identify procedures to study rule- governed behavior</li> </ul>	Catania, A. C. (2013). Learning (5th Edition). Cornwall-on-Hudson, NY: Sloan Publishing. (Chapter 23) Glenn, S. S. (1987). Rules as environmental events. The Analysis of Verbal Behavior, 5, 29-32.	Palaez, M., Moreno, R. (1999). Four dimensions of rules and their correspondence to rule- governed behavior: A taxonomy. Behavioral Development 6(1), 21-27 Rosenfarb, I. S., Newland, M. C., Brannon, S. E., & Howey, D. S.
	• Be able to identify divergences in the analysis of rule-governed behavior and how they are related	Skinner, B. F. (1969). Contingencies of reinforcement: A Theoretical	(1992). Effects of self- generated rules on the development of schedule-

ltems	Competencies	<b>Core/Foundational Readings</b>	Suggested/Ancillary Readings
Items	Competenciesto simple or conditional stimulus control and motivational operations.• Describe experimental work related to these concepts;• Describe the importance of these concepts to applied settings;	Core/Foundational ReadingsAnalysis (An Operant Analysis of Problem Solving). Cambridge, MA: B. F. Skinner Foundation.Wulfert, E. (2018). Rule-governed behavior. Salem Press Encyclopedia of Health. Retrieved from http://search.ebscohost.com.li bauth.purdueglobal.edu/login.a spx?direct=true&db=ers&AN=93 872212&site=eds-live	Suggested/Ancillary Readingscontrolled behavior. Journal of the Experimental Analysis of Behavior (Bloomington, IN), 58, 107-121.Schlinger, H., & Blakely, E. (1987). Function-altering effects of contingency-specifying stimuli. The Behavior Analyst, 10(1), 41- 45.Zettle, R. D., & Young, M. J. (1987). Rule-following and human operant responding: Conceptual and methodological considerations. The Analysis of Verbal Behavior, 5(1), 33-39.
			Hayes, S. C. (1993). Rule governance: basic behavioral research and applied implications. Current Directions in Psychological Science, 2, 193-197. doi: 10.1111/1467- 8721.ep10769746

Note: This guide uses Catania (2013) and Mazur's (2006) textbooks. Faculty may choose a different textbook that also explores the basic concepts. OTHER READINGS:

Chance, P. (Ed.) Learning and behavior. Belmont, CA: Nelson Education.

Cooper, J. O., Heron, T. E. & Heward, W. L. (2019). Applied behavior analysis. (Third edition). New Jersey: Pearson Merrill Prentice Hall.

Michael, J. (2004). Concepts and Principles of Behavior Analysis, Revised Edition. Kalamazoo, MI: Society for the Advancement of Behavior Analysis. Pierce, W. D., & Cheney, C. D. (2017). *Behavior Analysis and Learning*. (6<sup>th</sup> Edition). New York: Taylor & Francis.

### Behavioral Systems Analysis

Behavioral Systems Analysis (BSA) comes from a synthesis of the fields of behavior analysis and systems analysis and can be defined as the analysis of behavior that occurs in complex and organized social environments. BSA offers much to promote behavioral solutions to socially significant practices within large social units like organizations and cultures.

#### **Content Hours:**

• 45 hours required

#### Course objectives:

- Explain conceptual development and technological application of behavioral systems analysis
- Describe conceptual, methodological, and technological strengths and weaknesses associated with this approach
- Integrate themes and topics in behavior analysis that may contribute to the conceptual, methodological, and technological development of BSA

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
<ol> <li>Introduction to OBM, BSA, &amp; Systems Theory</li> </ol>	<ul> <li>Students will define (state the main components of) organizational behavior management.</li> <li>Students will define (state the main components of) general systems theory.</li> <li>Students will define (state the main components of) behavioral systems analysis.</li> <li>Students will differentiate among organizational behavior management, general systems</li> </ul>	<ul> <li>Brethower, D. M. (2000). A systematic view of enterprise: Adding value to performance. Journal of Organizational Behavior Management, 20 (3/4), 165-190.</li> <li>Caws, P (2015). General Systems Theory: Its Past and Potential. Systems Research &amp; Behavioral Science, 32, 514–521. doi: 10.1002/sres.2353.</li> <li>Krapfl, J. E. &amp; Gasparotto, G. (1982). Behavioral systems analysis. In L. W. Fredericksen (Ed.)</li> </ul>	n/a

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	theory, and behavioral systems analysis.	Handbook of Organizational Behavior Management. New York, NY: Wiley.	
2. Selection & Cultural Change	<ul> <li>Students will name, define, and describe the three kinds of selection including the units of analysis and how the selection occurs over time.</li> </ul>	Glenn, S. S. (2004). Individual behavior, culture, and social change. <i>The Behavior Analyst, 27</i> (2), 133-151.	Malott, M. E., & Glenn, S. S. (2006). Targets of interventions in cultural and behavioral change. <i>Behavior and Social</i> <i>Issues, 15,</i> 31-56.
	• Students will describe how each kind of selection is necessary but different from each of the other kinds of selection.	Glenn, S. S., Malott, M. E., Andery, M. A. P. A., Houmanfar, R. A., Sandaker, I., Todorov, J. C., Tourinho, E. Z., Vasconcelos, L. A. (2016). Toward	Mattaini, M. A. (2013). Behavioral Systems Science and Nonviolent Struggle (Chapter 4). In <i>Strategic Nonviolent Power</i> . Edmonton, AB:
	<ul> <li>Students will define and differentiate between and among an individual response, a behavioral lineage, and a cultural (culturo-behavioral) lineage and</li> </ul>	L. A. (2016). Toward consistent terminology in a behaviorist approach to cultural analysis. <i>Behavior and</i> <i>Social Issues, 25</i> , 11-27.	Athabasca University Press.
	<ul> <li>provide examples of each.</li> <li>Students will define (including the critical components and the relations between the components) and differentiate between and among the concepts of the metacontingency, the macrocontingency, and the cultural cusp.</li> </ul>	Skinner, B. F. (1981). Selection by consequences. <i>Science, 213</i> , 501-504.	

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	<ul> <li>Students will define and differentiate among "process", "content", and "procedure" in operant contingencies and metacontingencies.</li> </ul>		
	• Students will describe at least two ways in which one might produce cultural change.		
3. Complexity & Emergence	<ul> <li>Students will describe the types of selection processes that have been proposed (including the units that are selected and the contingency arrangements) to be involved in cultural evolution and the various perspectives with respect to these processes (e.g., Skinner; Couto &amp; Sandaker, Glenn; Krispin).</li> <li>Students will define systems, complex systems, and selforganizing systems.</li> <li>Students will describe and analyze the concepts of emergence and complexity in the context of cultural and systems evolution and large-scale change.</li> </ul>	<ul> <li>Krispin, J. V. (2017). Positive feedback loops of metacontingencies: A new conceptualization of cultural-level selection. <i>Behavior and Social Issues, 26,</i> 95-110. doi: https://doi.org/10.5210/bsi.v2 6i0.7397.</li> <li>Moroni, S. (2015). Complexity and the inherent limits of explanation and prediction: Urban codes for self-organising cities. <i>Planning Theory, 14</i>(3), 248- 267.</li> <li>Couto, K. C., &amp; Sandaker, I. (2016). Natural, behavioral and cultural selection-analysis: An integrative approach. <i>Behavior</i></li> </ul>	Krispin, J. V. (2016). What is the metacontingency? Deconstructing claims of emergence and cultural-level selection. <b>Behavior and Social</b> <b>Issues</b> , 25, 28- https://behaviorandsocialissu es.org/ojs/index.php/bsi/articl e/view/6186

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	• Students will describe some of the challenges in designing complex systems and in predicting and producing large scale change.	and Social Issues, 25, 54-60. https://doi.org/10.5210/bsi.v2 5i0.6891 Waddock, S., Meszoely, G. M., Waddell,	
	<ul> <li>Students will summarize and provide a critical analysis of some of the proposed strategies for promoting large scale change.</li> </ul>	S., & Dentoni, D. (2015). The complexity of wicked problems in large scale change. <i>Journal of</i> <i>Organizational Change</i> <i>Management</i> , <i>28</i> (6), 993-1012.	
4. Transdisciplinary Considerations on Complexity and Systems	<ul> <li>Students will describe the implications of theories (social-ecological systems approach, system dynamics, exploratory modeling and analysis, institutional economics analysis of social dilemmas) that consider or discount the interdependencies among constituents in complex systems.</li> <li>Students will describe the approaches to modeling (predictive modeling, exploratory modeling and analysis), the strengths and limitations of each, and the types of research</li> </ul>	<ul> <li>Folke, C., Biggs, R., Norström, A. V., Reyers, B., &amp; Rockström, J. (2016). Social-ecological resilience and biosphere- based sustainability science. <i>Ecology and Society</i>, <i>21</i>(3).</li> <li>Kwakkel, J. H., &amp; Pruyt, E. (2015). Using system dynamics for grand challenges: the ESDMA approach. <i>Systems Research</i> <i>and Behavioral Science</i>, <i>32</i>(3), 358-375.</li> <li>Valentinov, V., &amp; Chatalova, L. (2016). Institutional economics and social dilemmas: A systems theory perspective. <i>Systems</i></li> </ul>	<ul> <li>Grossmann, K. &amp; Haase,</li> <li>A. (2016) Neighborhood change beyond clear storylines: What can assemblage and complexity theories contribute to understandings of seemingly paradoxical neighborhood development? Urban Geography, 37, 5, 727- 747. doi: 10.1080/02723638.2 015.1113807</li> <li>Kohl, P., Crampin, E. J., Quinn, T. A., &amp; Noble, D. (2010). Systems biology: An approach. Nature Publishing Group, 88(1), 25-33.</li> <li>Rizzo, A., &amp; Galanakis, M. (2015). Transdisciplinary urbanism:</li> </ul>

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	<ul><li>questions that can be addressed by each.</li><li>Students will explain how different</li></ul>	Research and Behavioral Science, 33(1), 138-149.	three experiences from Europe and Canada. <i>Cities</i> , 47, 35-44.
	perspectives within systems theory have been used to understand global societal challenges (wicked problems) including the strengths and limitations of each (particularly with respect to systems boundaries and prediction).		
	• Students will compare and contrast transdisciplinary perspectives on complexity and systems with behavioral systems analysis perspectives on complexity and systems, particularly related to cultural, societal, and organizational change.		
5. Communication & Cultural Change	• Students will describe the form and function that communication typically serves in the organizational setting including examples of communication in the context or form of communication	Smith, G. S., Houmanfar, R., & Denny, M. (2012). Impact of rule accuracy on productivity and rumor in an organizational analog. <i>Journal of</i> <i>Organizational Behavior</i> <i>Management, 32</i> , 3-25.	Houmanfar, R., & Rodrigues, N. J. (2012). The role of leadership and communication in organizational change. Journal of Applied Radical Behavior Analysis. N1, 22–27. (also accepted for publication in Psicologia Applicata alla

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	<ul> <li>networks, rules, rumor, leadership, etc.</li> <li>Students will explain what Relational Frame Theory adds to analysis of cultural practices with a specific focus on derived relational responding, rules, and the associated effects on the behavior of individuals as well as "interlocked behaviors".</li> <li>Students will describe the difference between sociological and psychological events (Kantor, 1982) and what the implications of this are for culture and the metacontingency more specifically.</li> <li>Students will define (including the critical components and the relations between the components) and differentiate between and among the components of the expanded (five- term) metacontingency.</li> <li>Students will describe the rationale, method, and findings of some of the experimental work</li> </ul>	<ul> <li>Houmanfar, R. A., Rodrigues, N. J., &amp; Smith, G. S. (2009). Role of Communication Networks in Behavioral Systems Analysis. Journal of Organizational Behavior Management, 29, 257- 275.</li> <li>Houmanfar, R. A., Rodrigues, N. J., &amp; Ward, T. A., (2010). Emergence &amp; metacontingency: Points of contact and departure. Behavior and Social Issues, 19, 78-103</li> <li>Smith, G. S., Houmanfar, R., &amp; Louis, S. J. (2011). The participatory role of verbal behavior in an elaborated account of metacontingency: From theory to investigation. Behavior and Social Issues, 20, 112 – 145.</li> </ul>	Medicina del Lavoro e della Riabilitazione).

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	that has explored the role of verbal behavior in understanding the cultural practices of organizations.		
6. Leadership & Cultural Change	<ul> <li>Students will define leadership from a behavioral perspective.</li> <li>Students will describe the key functions of leadership including the characteristics of good leaders, particularly with respect to communication; the variables that promote effective leadership; and how leadership entails shifts in metacontingencies.</li> <li>Students will explain how leaders promote organizational values and how leaders can promote prosociality, balancing financial and social capital and contingencies</li> <li>Students will summarize the key findings from behavior analytic efforts at understanding leadership and the behaviors and related contingencies that leaders might exhibit to produce cultural change that promotes the well- being of society.</li> </ul>	<ul> <li>Houmanfar, R., Alavosius, M. P., Morford, Z. H., Reimer, D., Herbst, S. A. (2015).</li> <li>Functions of organizational leaders in cultural change: Financial and social well-being. Journal of Organizational Behavior Management, 35, 4-27.</li> <li>Houmanfar, R. A., &amp; Mattaini, M. A. (2016). Leadership and cultural change: Implications for Behavior Analysis. The Behavior Analyst, 39, 41-46.</li> <li>Malott, M. E. (2016a). What studying leadership can teach us about the science of behavior. The Behavior Analyst, 39, 47-74.</li> <li>Mattaini, M. A. (2013). Organization and leadership in resistance movements (Chapter 6). In Strategic Nonviolent Power.</li> </ul>	<ul> <li>Alavosius, M. P., Houmanfar, R. A., Anbro, S., Burleigh, K., &amp; Hebein, C. (2017). Leadership and crew resource management in high-reliability organizations: A competency framework for measuring behaviors. Journal of Organizational Behavior Management, 37, 142-170.</li> <li>Krapfl J. E, &amp; Kruja, B. (2015). Leadership and culture. Journal of Organizational Behavior Management, 35, 28- 43.</li> </ul>

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
		Edmonton, AB: Athabasca University Press.	
7. Selection & Organizational Change	<ul> <li>Students will describe the role of selection (behavioral and cultural), the corresponding units of analysis, and under which conditions each is most appropriate in the context of organizations.</li> <li>Students will describe the relationships between behavioral contingencies, interlocking behavioral contingencies and the total performance system.</li> <li>Students will define, identify the relations between the organization, the system, and the subsystem and compare and contrast them; describing how the boundaries of a system or organization are identified.</li> <li>Students will describe the different types of complexity and the relationships between them and explain how complexity affects an organization.</li> </ul>	<ul> <li>Malott, M. E. (2003). Paradox of organizational change. Reno, NV: Context Press. Chapters 1, 2, &amp; 3.</li> <li>Abernathy, W. B. (2009). Walden two revisited: Optimizing behavioral systems. Journal of Organizational Behavior Management, 29, 175 -192.</li> <li>Glenn, S. S., &amp; Malott, M. M. (2004). Complexity and selection: Implications for organizational change. Behavior &amp; Social Issues, 13, 89-106.</li> </ul>	n/a

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	• Students will describe the implication of growth in management and how that relates to the interlocking behavioral contingencies at lower levels.		
	• Students will compare and contrast behavior systems analysis/performance systems analysis and organizational behavior analysis.		
	• Students will summarize how applied behavior analysis and organizational behavior management employ utopian thinking in their practice and describe the four recommendations made by Abernathy (2009) that could improve the implementation and sustainability of "behaviorist utopia" within the context of existing organizations.		
8. Cultural Contingencies in Organizations: Functional Assessment & Process Analysis	<ul> <li>Students will perform a Total Performance System analysis of an organization.</li> <li>Students will identify, define, and provide the rationale for at least</li> </ul>	Malott, M. E. (2003). <i>Paradox of</i> organizational change. Reno, NV: Context Press. Chapters 4 to 9	n/a

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	<ul> <li>one measure for each components in their Total Performance System analysis.</li> <li>Students will prepare a summary of the administrative structure and prepare a department-function analysis for an organization.</li> </ul>	Mattaini, M. A. (2013). Sustaining resistance movements: Solidarity, discipline, and courage (Chapter 5). In <i>Strategic Nonviolent Power</i> . Edmonton, AB: Athabasca University Press.	
	<ul> <li>Students will prepare a detailed analysis (including a detailed process map and units of measurement) of at least one process within an organization that includes: 1) process identification, 2) scope, 3) sub processes, 4) units, 5) general tasks, 6) aggregate products, 7) participants, 8) uniqueness, and 9) duration.</li> </ul>		
	• Students will prepare a contingency analysis and task analysis for one performer within an organization.		
	• Students will identify, within an organization, an existing contingency, a performance management contingency that could change that contingency, the		

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	corresponding interlocks, and the measures that will allow them to determine if there was a shift in performance.		
	• Students will describe, from a behavioral systems analysis perspective, the three repertoires and the contingencies associated with promotion of each that are necessary to sustain effective resistance campaigns.		
9. Cultural Contingencies in Organizations: Behavioral Systems Engineering Model	<ul> <li>Students will summarize the rationale, method, and stages of the Behavioral Systems         Engineering Model and will describe how the model can be used to produce organizational change.     </li> <li>Students will describe external complexity and internal complexity and internal selection practices might be with respect to how aggregate products and interlocking behavioral contingencies are selected in organizations and industry.     </li> </ul>	<ul> <li>Malott, M. E. (2003). Paradox of organizational change. Chapter 10</li> <li>Malott, M. E. (2016b). Selection of business practices in the midst of evolving complexity. Journal of Organizational behavior Management, 36, 103- 122.</li> <li>Malott, M. E., &amp; Martinez, W. S. (2006). Addressing organizational complexity: A behavioral systems analysis application to higher education.</li> </ul>	n/a

ltems	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	<ul> <li>Students will differentiate behavioral cusps from cultural cusps and will differentiate cultural cusps from cultural incidents.</li> </ul>	International Journal of Psychology, 41(6), 1-12.	
	• Students will construct an analysis of an organizational/community process or a set of interrelated processes or functional units based on Malott's (2003) Behavioral Systems Engineering Model.		
10. Applications to Complex Systems: Ecological Analyses Part 1	Students will explain how behavioral systems science is ecological and selectionist, how ecological strategy differs from the traditions of behavior analysis, and how ecological strategy might	Baer, D. M. (1974). A note on the absence of a Santa Claus in any known ecosystem: A rejoinder to Willems. <i>Journal</i> of Applied Behavior Analysis, 7(1), 167-169.	Mattaini, M. A. (2003). Constructing nonviolent alternatives to collective violence: A scientific strategy. <i>Behavior and Social</i> <i>Issues, 12,</i> 148-163.
<ul> <li>a specialty in ecol</li> <li>Students will sum process/method,</li> </ul>	<ul> <li>place cultural systems science as a specialty in ecological science.</li> <li>Students will summarize the process/method, the uses, and limitations of 1) feedback mided</li> </ul>	<u>974.7-167</u> Living in truth.	Mattaini, M. A. & Atkinson, K. (2011). Constructive noncooperation: Living in truth. <i>Peace and</i> <i>Conflict Studies, 18</i> (1), 3-43.
	limitations of 1) feedback-guided analysis and 2) Dyball and Newell's (2015) "cultural adaptation template"	theoretical framework. In R. Dyball & B. Newell, <i>Understanding human ecology</i> (pp. 111-137). London & New York: Routledge.	Willems, E. P. (1974). Behavioral technology and behavioral ecology. <i>Journal of Applied Behavior Analysis</i> , 7(1), 151- 165.

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	<ul> <li>Describe the three types of cultural analytic scholarship, their contributions, and their limitations.</li> <li>Students will explain why new analytic tools are necessary for those engaged in cultural systems science and describe some of the tools that might be necessary.</li> </ul>	<ul> <li>Mattaini, M. A. (under review). Out of the Lab: Shaping an Ecological Cultural Science. <i>Perspectives</i> on Behavior Science.</li> <li>Mattaini, M. A. (2015). Toward a Twenty-First Century, Science- Based "Constructive Programme". In R. Amster, L. Finley, E. Pries, &amp; R. McCutcheon (Eds). <i>Peace</i> studies between tradition and innovation (pp. 83-101). Newcastle upon Tyne, UK: Cambridge Scholars Publishing.</li> </ul>	https://doi.org/10.1901/jaba. 1974.7-151
11. Applications to Complex Systems: Ecological Analyses Part 2	<ul> <li>Students will differentiate between "collective one-time actions" and "persistent cultural practices" and describe why these constitute the behavioral systems dynamics.</li> <li>Students will describe the general process one may use "to influence the values or actions of a larger population" (Mattaini, 2013, p. 259), the goals of this process, the phenomena for which this process is appropriate, and how the</li> </ul>	Aspholm, R. R., & Mattaini, M. A. (2017). Youth Activism as Violence Prevention. InPeter Sturmey (Ed.), <i>The Wiley</i> <i>handbook of violence and</i> <i>aggression</i> (page numbers unknown). Hoboken, NJ: John Wiley and Sons, Ltd. Mattaini, M. A. (2013). Constructive noncooperation (Chapter 7) & Toward "undreamt of"	Bates, M. (1950). <i>The nature of natural history</i> . Princeton, NJ: Princeton University Press. Chapter 18

ltems	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	<ul> <li>process can be adapted when the analysis shifts to that of behavioral systems.</li> <li>Students will describe the conditions under which shifts in metacontingencies are insufficient to create large scale change and will describe the types of analyses that might be useful under those conditions.</li> </ul>	discoveries (Chapter 11). In Strategic nonviolent power: The science of Satyagraha. Edmonton, AB: Athabasca University Press.	
	<ul> <li>Students will summarize how behavioral systems analysis and constructional methods can contribute to meaningful change as related to youth violence.</li> </ul>		
	• Students will generate a diagram that depicts the likely interdependencies between several sectors within a community or organization that influence collective outcomes.		
	• Students will generate a matrix, illustrating prosed practices within multiple sectors that could help construct and sustain a desirable cultural practice among a target		

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	group and provide an ecological rationale for their analysis.		
12. Creating Solutions to Social Problems: Sustainability & Climate Change	<ul> <li>Students will describe the processes embedded in and the advantages to applying language-based psychological intervention methods to sustainability issues.</li> <li>Students will describe the role of organizations in affecting behaviors contributing to climate change and describe systems-level interventions that could be employed and researched.</li> <li>Students will explain the rationale, general strategy, and the supporting science for culture-based solutions that might lead to a more promising future with respect to climate change.</li> </ul>	<ul> <li>Newsome, W. D. &amp; Alavosius, M. P. (2011). Toward the prediction and influence of green behavior: Seeking practical utility in research. <i>Behavior</i> <i>and Social Issues, 20,</i> 44-77.</li> <li>Alavosius, M.P., Newsome, W.D., Houmanfar, R. &amp; Biglan, A. (2016). A Functional Contextualist Analysis of the Behavior and Organizational Practices Relevant to Climate Change. In R. Zettle, S. C. Hayes, D. Barnes-Holmes, A. Biglan (Eds). <i>Handbook of Contextual Behavior Science</i>. Hoboken, NJ: Wiley-Blackwell.</li> </ul>	<ul> <li>Luke, M. &amp; Alavosius, M. P. (2012). Impacting community sustainability through behavior change. <i>Behavior and Social</i> <i>Issues, 21,</i> 54-79.</li> <li>Wilson, D. S., Ostrom, E., Cox, M. E. (2013). Generalizing the core design principles for the efficacy of groups. <i>Journal of</i> <i>Economic Behavior &amp;</i> <i>Organization, 905,</i> 521-532.</li> </ul>
	• Students will describe how climate change is a "super wicked problem" and note how policy change initiatives could be made more effective if a path-dependent, applied forward reasoning approach were employed.	Grant, L. K. (2011). Can we consume our way out of climate change? A call for analysis. <i>The Behavior Analyst, 34</i> (2), 245-266. Levin, K., Cashore, B., Bernstein, S., & Ault, G. (2012) Overcoming the	

ltems	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	• Students will identify how culture- based solutions to climate change intersect with path-dependent and applied forward reasoning approaches to policy intervention as related to climate change.	tragedy of super wicked problems: Constraining our future selves to ameliorate global climate change. <i>Policy</i> <i>Science, 45</i> , 123-153.	
13. Creating Solutions to Social Problems: Common Pool Resources	<ul> <li>Students will describe Hardin's (1968) Tragedy of the Commons.</li> <li>Students will describe Ostrom's work related to remediating the Tragedy of the Commons.</li> <li>Students will draw parallels between Ostrom's work and a culturo-behavioral systems science perspective.</li> <li>Students will describe current (and potential) efforts from behavioral scientists at employing a culturo-behavioral systems science perspective to research variables derived from Ostrom's work at governing the use of common-pool resources.</li> </ul>	<ul> <li>Camargo, J. &amp; Haydu, V. B. (2016). Fostering the sustainable use of common-pool resources through behavioral interventions: An experimental approach. <i>Behavior and Social</i> <i>Issues, 25,</i> 61-76.</li> <li>Ostrom, E. (1998). Coping with tragedies of the commons. Paper prepared for delivery at the 1998 Annual Meeting of the Association for Politics and the Life Sciences (APLS).</li> </ul>	n/a
14. Creating Solutions to Social Problems: Experimental Microcultures	• Students will explain game theory, Nash equilibrium, and the way experimental games are used to measure preference, particularly	Tourinho, E. Z. (2013). Cultural consequences and interlocking behavioral contingencies: Selection at the	Todorov, J. C. (2010). Schedules of cultural selection: Comments on "Emergence and

ltems	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
Items	Competenciessocial preference, and the advantages and limitations of doing so especially as compared with field experiments.• Students will describe the Prisoner's' Dilemma game and at least two additional experimental games including the following information: 1) the definition of the game, 2) the predictions game theorists make regarding the game, 3) the procedural variations, and 4) the way the findings are interpreted.	cultural level. <i>Behavior and</i> <i>Philosophy, 41</i> 60-60. Camerer, C. F., & Fehr, E. (2004). Measuring Social Norms and Preferences Using Experimental Games: A Guide for Social Scientists. In J. Henrich P. Boyd S. Bowles, C.	Suggested/Ancillary Readings Metacontingency". Behavior and Social Issues, 19, 86-89.
	<ul> <li>Students will describe the primary preparations, experimentally arranged contingencies, and other important methodological distinctions in research on cultural selection processes.</li> <li>Students will describe the major conclusions that can be drawn from the extant literature-based on</li> </ul>	Oxford. Soares, P. F. R., Martins, J. C. T., Guimaraes, T. M. M., Leite, F. L., & Tourinho, E. Z. (2019). Effects of continuous and intermittent cultural consequences on culturants in metacontingency concurrent	
	<ul> <li>cultural selection processes and the limitations of this research.</li> <li>Students will comment on the need to differentiate between the</li> </ul>	with operant contingency. Behavior and Social Issues.	

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	effects of individual operant level contingencies and cultural consequences contingent upon the culturant, as well as on the work that has attempted to draw parallels between operant level selection and cultural selection.		
15. Creating Solutions to Social Problems: Community Health & Social Justice	• Students will explain how the criteria for applied behavior analysis align with applying behavior analysis to community-level research.	Fawcett, S. B. (1991). Some values guiding community research and action. <i>Journal of Applied</i> <i>Behavior Analysis</i> , 24(4), 621- 636.	n/a
	<ul> <li>Students will describe the five values indicative of developing collaborative relationships between behavioral researchers and participants.</li> <li>Students will describe the four</li> </ul>	https://doi.org/10.1901/jaba.1 991.24-621 Moore, J. (2003). Behavior analysis, mentalism, and the path to social justice. <i>The Behavior</i> <i>Analyst, 26</i> (2), 181-193.	
	values and principles that underlie community needs and resource assessments	Watson-Thompson, J., Collie-Akers, V., Woods, N. K., Anderson-	
	• Students will describe the five values that should guide community-based interventions and dissemination efforts for behavioral research conducted in community settings.	Carpenter, K. D., Jones, M. D., & Taylor, E. L. (2014). Participatory Approaches for Conducting Community Needs and Resources Assessments. In V. C. Scott & Wolfe, S. M. <i>Community Psychology:</i>	

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	• Students will describe how mentalism and attribution theory more specifically might impede social justice efforts and will explain why behavior analysis offers a constructive alternative to mentalism as it relates to social justice, prejudice, racism, and discrimination more generally.	Foundations for Practice. Thousand Oaks, CA: Sage Publications, Inc.	
	• Students will provide an example of a community needs and resources assessment and develop a community-based intervention focused on social justice, including a description of how the information gathered from the assessment informs the intervention.		
<ol> <li>Creating Solutions to Social Problems: Activism, Advocacy, &amp; Accompaniment</li> </ol>	• Students will describe and provide examples of the role nonprofits and advocacy organizations can serve in reducing negative externalities	Biglan, A. (2009). The role of advocacy organizations in reducing negative externalities. <i>Journal</i> of Organizational Behavior Management, 29, 215-230.	n/a
	• Students will describe and provide examples of the contingencies that shape the practices of advocacy groups.	Brogran, K. M., Richling, S. M., Rapp, J. T., Thompson, K. R., & Burkhart, B. R. (2018). Collaborative efforts by the	

Items	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	• Students will explain the set of policies described by Biglan (2009) that can sharpen the contingencies that influence advocacy organizations such that they can act effectively in the interest of public wellbeing.	Auburn University Applied Behavior Analysis Program in the treatment of adolescents adjudicated for illegal sexual behavior. <i>Behavior and Social</i> <i>Issues, 27</i> , AA16-AA20.	
	<ul> <li>Students will examine several case studies detailing activism and advocacy efforts led or described by behavior analysts and will summarize the critical features of each.</li> <li>Students will describe the contingencies they would arrange to lead an activism and/or advocacy effort for a cause of their choosing.</li> </ul>	<ul> <li>Luna, O., Rapp, J. T., Newland, M. C., Arena, R., LaPointe, L. L., Kierce, E., &amp; Lusche, P. (2018). Alabama Psychiatric Medication Review Team (APMRT): Advocating for foster children. <i>Behavior and</i> <i>Social Issues, 27</i>, AA11-AA15.</li> <li>Nevin, J. A. (2018). Variation, selection, and social action. <i>Behavior and Social Issues, 27</i>, AA1-AA3.</li> <li>Schlinger, H. (2018). The Venus Project and behavioral science. <i>Behavior and Social Issues, 27</i>, AA4-AA5.</li> <li>Tsipursky, G., &amp; Morford, Z. (2018). Addressing behaviors that</li> </ul>	
		Addressing behaviors that lead to sharing fake news.	

ltems	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
		Behavior and Social Issues, 27, AA6-AA10.	
17. Developing Solutions for Organizational Problems: Total Performance System	<ul> <li>Students will define and distinguish between rule governed behavior and contingency shaped behavior in organizations, outlining Abernathy's (2003) free operant approach.</li> <li>Students will list the components and sub-components of Abernathy's (2003) Total Performance System (TPS), list and describe the main principles of effective behavior change measures, and list the main consequential variables identifying which one is essential during the beginning stages of TPS implementation.</li> <li>Students will compare and contrast different types of leadership and managerial styles in organizations with respect to how they affect performance.</li> <li>Students will compare and contrast Abernathy's (2003) and</li> </ul>	<ul> <li>Abernathy, W. B (1996). Sin of wages. Atlanta, GA: Performance Management Publications.</li> <li>Abernathy W. B. (2001). An analysis of twelve organizations' total performance system. In L. J. Hayes, J. Austin, R. Houmanfar, &amp; Clayton, M. C. (Eds.), Organizational Change (pp. 239-272). Reno, NV: Context Press.</li> <li>Abernathy, W. B. (2003). Creating a high performance organization through a "free operant workplace." Performance Systems Analysis. Retrieved November 5, 2003 from Cambridge Center for Behavioral Studies (http://store.behavior.org/reso urces/396.pdf).</li> </ul>	n/a

ltems	Competencies	Core/Foundational Readings	Suggested/Ancillary Readings
	Students will list and describe the	performance technology, (pp.	
	steps in the Human Performance	47-66). San Francisco, CA:	
	Technology approach to behavioral systems analysis.	Jossey-Bass Pfeiffer.	

Note: These are additional recommended books and papers that are not unit specific but may be helpful for persons teaching courses in behavioral systems analysis.

#### **RECOMMENDED READINGS: BOOKS**

- Abernathy, W. B (1996). The sin of wages: Where the conventional pay system has led us and how to find a way out. Memphis, TN: PerfSys Press.
- Bar Bar-Yam, Y. (1997). Dynamics of complex systems. Reading, MA: Addison-Wesley.
- Gilbert, T. F. (1978). Human competence: Engineering worthy performance. New York, NY: McGraw-Hill.
- Hackenberg, T., Hanley, G. P., & Lattal, K. A. (Eds.) (2013). APA handbook of behavior analysis, Vol. 2. Translating principles into practice. Washington, DC, US: American Psychological Association.
- Houmanfar, R. A., Fryling, M. & Alavosius, M. P. (Eds.) (in press). Applied behavior science in organizations: Consilience of historical and emerging trends in organizational behavior management. New York, NY: Springer.

Mitchell, M. (2009). Complexity: A guided tour. New York: Oxford University Press.

- Moran, D. J. (2013). Building safety commitment. Joliet, IL: Valued Living Books, Inc.
- Morieux, Y., & Tollman, P. (2014). Six simple rules: How to manage complexity without getting complicated. Watertown, MA: Harvard Business Review Press.
- Rummler, G. A. & Brache, A. P. (1995). *Improving performance: How to manage the white space on the organization chart.* San Francisco, CA: Jossey-Bass Publishers.

Skinner, B. F. (1971). Walden Two (1948, 1976, 2005). Indianapolis, IN. Hackett.

Thaler, R.H., & Sunstein, C.R. (2009) Nudge: Improving decisions about health, wealth, and happiness. New York, NY: Penguin Books.

#### **RECOMMENDED READINGS: ARTICLES & CHAPTERS**

- Abernathy, W. B. (2013). Behavioral approaches to business and industrial problems: Organizational behavior management. In G. J. Madden, W. V. Dube, T. D. Hackenberg, G. P. Hanley, & K. A. Lattal (Eds.), *APA handbook of behavior analysis, Vol. 2. Methods and principles* (pp. 501-521). Washington, DC, US: American Psychological Association.
- Alavosius, M. A., Getting, J., Dagen, J., Newsome, W., & Hopkins, B. (2009), Use of a cooperative to interlock contingencies and balance the commonwealth. *Journal of Organizational Behavior Management*, 29, 193 211.
- Alavosius, M. P., Newsome, W. D., Houmanfar, R. & Biglan, A. (2015). A Functional Contextualist Analysis of the Behavior and Organizational Practices Relevant to Climate Change. In Zettle, R. D., Hayes, S. C., Barnes-Holmes, D., & Biglan, A. (Eds). *Handbook of Contextual Behavior Science*. NY: John Wiley & Sons.
- Baker, T., Schwenk T., Piasecki M., Smith G. S., Reimer, D., Jacobs N., Shonkwiler, G., Hagen J., & Houmanfar R. A. (2015). Change in a medical school: A data-driven management of entropy. *Journal of Organizational Behavior Management*, *35*, 95-122.
- Bates, M. (1950). Chapter 18: Tactics, strategy, and the goal. In M. Bates, *The nature of natural history* (pp. 268-284). Princeton: Princeton University Press.
- Beckage, B., Kauffman, S, Gross, L. J., Zia, A., & Koliba, C. (2013). More complex complexity: Exploring the nature of computational irreducibility across physical, biological, and human social systems. In H. Zenil (Ed.), *Irreducibility and Computational Equivalence* (pp. 79-88). Berlin: Springer-Verlag.
- Baum, W. M., Richerson, P. J., Efferson, C. M., & Paciotti, B. M. (2004). Cultural evolution in laboratory microsocieties including traditions of rule giving and rule following. *Evolution and Human Behavior*, 25(5), 305-326.<u>http://dx.doi.org/10.1016/j.evolhumbehav.2004.05.003</u>
- Biglan, A. (2003). Selection by consequences: one unifying principle for a transdisciplinary science of prevention. *Prevention Science*, 4, 213-232.
- Biglan, A. (2009). Increasing psychological flexibility to influence cultural evolution. *Behavior and Social Issues, 18,* 1-10.
- Biglan, A., & Glenn, S. S. (2013). Toward prosocial behavior and environments: Behavioral and cultural contingencies in a public health framework. In G. J. Madden (Ed), APA Handbook of Behavior Analysis (pp. 255-275). Washington, DC: American Psychological Association.
- Biglan, A., & Hinds, E. (2009). Evolving prosocial and sustainable neighborhoods and communities. Annual Review of Clinical Psychology, 5, 169-196.
- Bogard K., Ludwig T., Staats C., & Kretchmer D. (2015) An industry's call to understand the contingencies involved in Process Safety: Normalization of deviance. *Journal of Organizational Behavior Management*, 35, 70-80.
- Bosch, S., & Fuqua, W. (2011). Behavioral cusps: A model for selecting target behaviors. *Journal of Applied Behavior Analysis, 34,* 123–125.

Brown, L., & Houmanfar, R (2015). The cost of affluence: A closer look at the food industry. Behavior and Social Issues, 24, 4-22.

- Chase, J., Houmanfar, R., Hayes, S., Ward, T., Plumb, J., & Follette, V. (2013). Values are not just goals: Online ACT-Based Values Training adds to goal setting in improving undergraduate college student performance. *Journal of Contextual Behavioral Science*, 2, 79-84.
- Dickinson, A. M. (2000). The historical roots of organizational behavior management in the private sector: The 1950s-1980s. *Journal of Organizational Behavior Management*, 20(3/4), 9-58.
- Diener, L. H., McGee, H., M., & Miguel, C. F. (2009). An integrated approach for conducting a behavioral systems analysis. *Journal of Organizational* Behavior Management, 29, 108-135
- Fantino, E. (1985). Behavior analysis and behavioral ecology: A synergistic coupling. *The Behavior Analyst*, 8(2), 151-157. https://doi.org/10.1007/BF03393147
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### Experiential Learning (Practicum/Internship)

Experiential learning could focus on any of a myriad of topics, depending on the individual program and transdisciplinary opportunities; for instance: public policy advocacy, violence, climate change, science policy, governance, business management, public health or criminal justice.

The basis of the experiential learning requirements includes 10 hours a week, 150 hours a semester, for a total of two semesters (300 hours). The experiential learning requirement can be met through the student's professional employment if an appropriate level of supervision or oversight is provided by program faculty and the experiential learning is a requirement for obtaining the degree – that is, if the experiential learning occurs before the degree is awarded. Regardless of the location or nature of the experience, it is incumbent on the program to show how it meets the hourly requirements.

#### **Content Hours:**

• 300 hours required (10 hours per week, across 2 semesters)

#### Course objectives:

- Saying Doing: The Detection of Micro-Cultural Discrepancies of Saying and Doing. Upon completion, the student should be trained with a focus on observing the coherence between saying and doing as an expression of the coherence between strategy and culture.
- Subcultures: Subcultures and Sub-Optimalization. Upon completion, the student should be able to reveal cultural sub-optimalizations and subcultures.
- Systems Architecture and Engineering: Cultural Architecture and Systems Engineering. Upon completion, the student should be able to model alternative ways to disseminate information and reinforce cultural practices by tracing the information and influence flow and identifying network structures.
- Policy and Cultural Dissemination: Cross Sector and Multidisciplinary Approaches to Complex Societal Challenges. Upon completion, the student should be able to use the growing body of behavioral insights and debias this process by moving away from sometimes unrealistic assumptions of rationality to discover the actual behavior of individuals through problem identification, behavior analysis, experimentation and trialing that tests multiple policy responses at a smaller scale to determine the best course of action in a cost-effective manner.

Items	Competencies	Core/Foundational Readings	Suggested Readings
A. The detection of micro-	Identify behavioral patterns that	Backeman, R., & Gottman, J. M. (1997).	
cultural discrepancies	are relative consistent over time,	Observing interaction: An	
of saying and doing.	even though the members of the	introduction to sequential	
		analysis. New York: Cambridge	
		University Press.	

Items	Competencies	Core/Foundational Readings	Suggested Readings
	unit may be exchanged by new ones. Identify formal and informal intentions, goals, strategies and other description of the organization/cultural unit.	Biglan, A. (2015). <i>The Nurture Effect.</i> <i>How the science of human</i> <i>behavior can improve our lives</i> & <i>our world</i> . Oakland, CA: New Harbinger Publications.	
	<ul> <li>Observe functional relations of behavior in context. Identifying IBCs in possible conflict with expressed goals.</li> </ul>	Dinsmoor, J. A. (1983). Observing and conditioned reinforcement. <i>The Behavioral and Brain</i> <i>Sciences, 6</i> , 693-728.	
	<ul> <li>Identify policy documents, and the contingencies under which they are formulated. (policy, politics, ideology, status, managerial preferences)</li> <li>Observe and identify if behavioral patterns are flexible and thus match the complexity of the environment</li> <li>Apply techniques of systematic observation of behavior in different contexts.</li> </ul>	<ul> <li>Glenn, S. S., Malott, M. E., Andery, M. A. P. A., Benvenuti, M., Houmanfar, R. A., Sandaker, E., Todorov, J. C., Tourinho, E. Z., Vasconcelos, L. A. (2016). Toward consistent terminology in a behaviorist approach to cultural analysis. <i>Behavior and</i> <i>Social Issues, 25,</i> 11-27.</li> <li>Holland, J. G. ((1957). Technique for behavioral analysis of human observing. <i>Science, 125,</i> 348- 350.</li> </ul>	
		Malott, M. E. (2003). Paradox of organizational change.	

Items	Competencies	Core/Foundational Readings	Suggested Readings
		Engineering Organizations with	
		Behavioral Systems Analysis.	
		Reno, NV: Context Press.	
		Malott, M. E., & Glenn, S. S. (2006).	
		Targets of intervention in	
		cultural and behavioral	
		change. Behavior and Social	
		Issues, 15, 31-56.	
		Martin, P., & Bateson, P.(1993).	
		Measuring behavior. New York:	
		Cambridge University Press.	
		Sharpe, T., & Koperwas, J. (2003).	
		Behavior and Sequential	
		Analyses. Thousand Oaks, CA:	
		Sage Publications.	
		Skinner, B. F. (1957). Upon further	
		reflection. Upper Saddle River,	
		NJ: Prentice-Hall.	
B. Subcultures and sub-	Identify the flow of tangible	Alavosius, M., Newsome, D.,	
optimalization.	resources, social reinforcement	Houmanfar, R., & Biglan, A.	
	and technology supporting the	(2016). A functional	
	processes leading to aggregate	contextualist analysis of the	
	product(s).	behavior and organizational	
		practices relevant to climate	
		change. In R. D. Zettle, S. C,	

Items	Competencies	Core/Foundational Readings	Suggested Readings
	<ul> <li>Identify informal power structures (unions, informal hubs in the network).</li> <li>Identify possible conflict of interests, and how they may relate to the dynamics of the system. Negotiate solutions by showing consequences for the common; natural or manmade.</li> </ul>	<ul> <li>Hayes, D. Barnes-Holems, &amp; A. Biglan (Eds.), the Wiley handbook of contextual behavioral science (pp.530). Malden, MA: John Wiley &amp; Sons.</li> <li>Glenn, S. S., Malott, M. E., Andery, M. A. P. A., Benvenuti, M., Houmanfar, R. A., Sandaker, E., Todorov, J. C., Tourinho, E. Z., Vasconcelos, L. A. (2016). Toward consistent terminology in a behaviorist approach to cultural analysis. <i>Behavior and</i> <i>Social Issues, 25,</i> 11-27.</li> <li>Carvalho, L. C., Couto, K. C., Gois, N. S., Sandaker, I., &amp; Todorov, J. C. (2016). Evaluating effects of cultural consequences on the variability of interlocking behavioral contingencies and their aggregate products. European Journal of Behavior Analysis, 17, 1-15.</li> <li>Tagliabue, M., &amp; Sandaker, I. (2019). Societal well-being: Embedding</li> </ul>	

Items	Competencies	Core/Foundational Readings	Suggested Readings
		nudges in sustainable cultural practices. <i>Behavior and Social Issues</i> .	
C Cultural architecture		Vasconcelos, L. A. (2013). Exploring macrocontingencies and metacontingencies: Experimental and non experimental contributions. <i>Suma Psicologica</i> , 20, 31-43.	E.M. Dogoro (1005): Diffusion of
C. Cultural architecture and systems engineering.	<ul> <li>Identify area of innovation.</li> <li>Search for best practices.</li> <li>Conduct a review of best practices and make a contingency analysis of the best practices.</li> </ul>	<ul> <li>Brayko, C. A., Houmanfar, R. A., Ghezzi, E. L. (2016). Organized cooperation: A behavioral perspective on volunteerism. <i>Behavior and Social Issues, 25,</i> 77-98.</li> <li>Glenn, S. S. , &amp; Malott, E. (2004). Complexity and selection: Implications for organizational change. <i>Behavior and Social</i> <i>Issues, 13,</i> 89-106.</li> </ul>	<ul> <li>E.M. Rogers (1995): Diffusion of Innovations.</li> <li>Centola, D. (2015). The social origins of networks and diffusion. <i>American Journal of Sociology</i>, 120(5), 1295-1338.</li> <li>John Sterman (2000). Business Dynamics: systems thinking and modeling for a complex world.</li> </ul>
		Hayes, S. C., & Toarmino, D. (1995). If behavior principles are generally applicable, why is it necessary to understand cultural diversity? <i>The Behavior</i> <i>Therapist, 18,</i> 21-23.	

Items	Competencies	Core/Foundational Readings	Suggested Readings
D. Cross sector and multidisciplinary approaches to complex societal challenges.	<ul> <li>Being explicit on the borders between legal, political and behavioral regulations.</li> <li>Being able to present documentation for evidence.</li> <li>Having active dialogue with actual citizens and stakeholders.</li> <li>Reporting failed projects as well as successful projects.</li> <li>Identifying and defining the problem. Determining the policy level of the project.</li> </ul>	<ul> <li>Houmanfar, R. A., Alavosius, M. P., Morford, Z. H., Herbst, S. A., &amp; Reimer, D. (2015). Functions of organizational leaders in cultural change: Financial and social well-being. Journal of Organizational Behavior Management, 35, 4-27.</li> <li>Glenn, S. S., &amp; Malott, E. (2004). Complexity and selection: Implications for organizational change. Behavior and Social Issues, 13, 89-106.</li> <li>Hayes, S. C., Barnes-Holmes, D., &amp; Roche, B. (2001). Relational Frame Theory. A Post- Skinnerian account of human language and cognition. New York: Academic/Plenum Publishers.</li> </ul>	<ul> <li>Wilson, D. S. and Hayes, S. (2018). Evolution and contextual behavioral science.</li> <li>Peter Turchin (2016). Ultra society, how 10.000 years of war made humans the greatest cooperators on earth.</li> </ul>
	<ul> <li>Decomposing the policy problem into behavioral insights.</li> <li>Strategies for behavioral change. Running small scale experiments</li> </ul>	Harari, Y. N. (2018). 21 Lessons for the 21 <sup>st</sup> Century. New York: Spiegel & Grau. Malott, M. E., & Glenn, S. S. (Submitted 2019). Integrating institutional	

ltems	Competencies	Core/Foundational Readings	Suggested Readings
	and testing. Embedding behavior in	and culture-behavioral analysis	
	cultural practices.	in the management of common	
	<ul> <li>Identify how resources match the outcome of investment e.g. how "one-click solutions" might outcompete huge investments.</li> <li>Test out a modified version of the best practice in small scale.</li> </ul>	pool resources: Application to an inland lake in Michigan. <i>Behavior and Social Issues</i> . Mullainathan, S., & Shafir, E. (2013). Scarcity. New York: Times Books.	
		Ostrom, E. (1990). <i>Governing the commons: The evolution of institutions for collective action</i> . Cambridge, UK: Cambridge University Press.	
		Skinner, B. F. (1957). <i>Verbal Behavior</i> . Cambridge, MA: Prentice-Hall.	
		Thaler, R. H., & Sunstein, C. R. (2008). Nudge. Improving decisions, about health, wealth, and Happiness. New York: Penguin Books.	

## **Course Hours Grid**

The grid will auto-populate as part of the online application.

	Basic Principles of Behavior Analysis	Behavioral Systems Analysis	Applying Cultural Analysis on Multi Levels of Organized Complexity
Course Content Hours:	45	45	
Experiential Learning:			300 total hours (10 hours per week, across 2 semesters)

# **C-BS Compliance Agreement**

The C-BS Coordinator and Instructor Agreements state that by submitting the application the information provided is true and accurate. ABAI may copy, release or disseminate course materials, as may in ABAI's sole discretion, be deemed pertinent to C-BS review or disciplinary action. Furthermore, ABAI will use course information as data to evaluate programs. ABAI may also release or disseminate course information in a manner aligning with its mission. Information publicly disseminated will completed with ethical integrity.

Submission of a C-BS application constitutes an agreement that the sequence (including the instructors) will comply with all the rules and standards outlined in this handbook, in ABAI official communications, and at <a href="https://www.ABAInternational.org/vcs/culturo-behavior-science.aspx">https://www.ABAInternational.org/vcs/culturo-behavior-science.aspx</a>. C-BS Coordinators must inform instructors and students that verified course sequences are subject to the listed ethical and diversity guidelines. Failure to comply with these standards can be grounds for issuance of sanctions against the C-BS, sanctions against instructors, and possible action against the certification status of instructors and coordinators. These sanctions may include suspension of the C-BS. Students must also be informed of the possible sanctions if they advertise their C-BS completion "certification", "accreditation", or similar. ABAI's complaint process may be used to file a complaint or violation against a C-BS.

□ I agree to comply with all terms