ISS 305 Section 2 Reading List for Fall 2017 Instructor: Dr. Jonathan Weaver

We will work through the topics in order. You should keep up with the readings listed for each topic.

Topic	Subtopic Subtopic	Authors	Portion and Pages
1. Introduction to	Course Objectives and	Huff	Into – pp 9-11
the Course	an Illustration	Lau – The importance of critical thinking Korn – Bosses Seek	http://philosophy.hku.hk/think/critical/ct.php p http://www.wsj.com/articles/bosses-seek-
		'Critical Thinking,' but what is that?	<u>critical-thinking-but-what-is-that-1413923730</u>
		Richardson TEDx talk Fradera (2017)	https://www.schoolofthought.org/ https://digest.bps.org.uk/2017/07/21/why- some-smart-people-make-foolish- decisions/
		Innocence Project – CONTENT WARNING!	http://www.innocenceproject.org/causes/ey ewitness-misidentification/
		Stanovich (Prefaces – pp xi – xv)	http://zhornikov.ru/docs/How_to_think.pdf
		Wells – personal website Well, Lindsay, &	https://public.psych.iastate.edu/glwells/ https://public.psych.iastate.edu/glwells/Wel
		Tousignant (1980)	ls%20pdfs/1980- 89/Wells_Lindsay_Tousignant_1980_LHB .pdf
2. Fallacies of Deductive Reasoning	Deductive vs. Inductive Reasoning	SMU	https://www.physics.smu.edu/pseudo/exam ples_logic.html
		Internet Encyclopedia of Philosophy	http://www.iep.utm.edu/ded-ind/ & http://www.iep.utm.edu/val-snd/
	Logical Fallacies	Gray – Chapter 3	https://www.msu.edu/user/kerr/iss305/gray ch3p.htm
		Internet Encyclopedia of Philosophy (See notes for which fallacies you should read about)	http://www.iep.utm.edu/fallacy/
		Richardson, Smith, Meaden, & Flip Creative (2017)	https://yourlogicalfallacyis.com/
	Common Heuristics	Ross	https://www.youtube.com/watch?v=HR_q9 6-YRzk
		APS	http://www.psychologicalscience.org/index .php/news/releases/i-knew-it-all-along- didnt-i-understanding-hindsight-bias.html
3. Empirical Statements and	Assertions vs. Arguments	Gray – Chapter 1	https://www.msu.edu/user/kerr/p450/grayc h12.htm
Arguments	Types of Statements	Gray – Chapter 2	

Topic	Subtopic	Authors	Portion and Pages
4. Science as a	Alternative Means of	Watts	http://freakonomics.com/2011/09/29/the-
Method of	Evaluation		myth-of-common-sense-why-the-social-
Evaluation			world-is-less-obvious-than-it-seems/
		Taylor	https://www.psychologytoday.com/blog/th
			e-power-prime/201107/common-sense-is-
			neither-common-nor-sense
	Essentials of a Scientific	McLeod	http://www.simplypsychology.org/science-
	Method		psychology.html
		Marincola	https://www.ncbi.nlm.nih.gov/pmc/articles/ PMC1395333/
		Becker	http://www.pbs.org/wgbh/nova/blogs/physi
			cs/2015/02/falsifiability/
		Harris (2017)	http://www.npr.org/sections/health-
			shots/2017/07/04/535412346/scientists-
			are-not-so-hot-at-predicting-which-cancer-
		G : (2017)	studies-will-succeed
		Gervais (2017)	http://willgervais.com/blog/2017/3/2/post-
		G :41	publication-peer-review
		Smith	https://www.ncbi.nlm.nih.gov/pmc/articles/
		Stangariah (Cha 1 % 2	PMC1420798/
		Stanovich (Chs. 1 & 2 – pp 1 – 36)	http://zhornikov.ru/docs/How_to_think.pdf
		Long-Crowell (video)	http://study.com/academy/lesson/self-
			fulfilling-prophecies-in-psychology-
			<u>definition-examples.html</u>
5. Problems of	The Concept and Utility	McTavish & Loether	https://www.msu.edu/user/kerr/SP636/Mc
Measurement	of Measurement		<u>Tavish.Loether.pdf</u>
	Levels of Measurement	UC Davis	http://psc.dss.ucdavis.edu/sommerb/somme
			<u>rdemo/scaling/levels.htm</u>
	Error of Measurement;	Lecture based	
	Reliability and Validity		
6. Problems of	Central Tendency	Huff	Ch. 2 – pp 29-38
Description	Distribution Features	Huff	Ch. 3 – pp 39-54
•	Percentages	Huff	Ch. 9 – pp 102-123
	Misleading Graphical	Huff	Ch. 5, 6 – pp 62-75
	Summaries	Bergstrom & West	http://callingbullshit.org/tools/tools_mislea
		Borgstrom & West	ding_axes.html &
			http://callingbullshit.org/tools/tools_propor
			tional_ink.html
7 Establishins	Defining and Illustration	Lastura hasad	
7. Establishing Associations	Defining and Illustrating Relationships	Lecture based	
	The 2x2 contingency	Anderson	https://www.msu.edu/user/kerr/SP636/And
	table		<u>erson.pdf</u>
	Common Errors in	Huff	Ch. 7 – pp 76-88
	Judging Relationships		
	From Simple to More	Lecture based	
	Complex Relationships		
	1		

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8. Real vs. Illusory	The Concept of Chance	Stanovich (Ch. 11 – pp	http://zhornikov.ru/docs/How_to_think.pdf
Effects		167 – 183)	
	Human Problems with	Stanovich (Ch. 10 – pp	http://zhornikov.ru/docs/How_to_think.pdf
	Probability	151 – 165)	
	,	Cherry	https://www.verywell.com/representativen
			ess-heuristic-2795805
		Huff	Ch. 7 pp 76-88
	The Logic of Inferential	Rugg & Petre	https://www.msu.edu/user/kerr/SP636/Rug
	Statistics	1 88	g.Petre.pdf \square
	Practical Significance	Lecture based	
	Effect Size	Lecture based	
	Effect Size	Dectare susea	
9. Establishing	Causality	Lecture based	
Causal	Correlation vs.	Stanovich (Ch. 5 – pp 73	http://zhornikov.ru/docs/How_to_think.pdf
Relationships	Causation	- 83)	integral 2 morning virus does no water to minimize the minimized of the mi
	Causation	Huff	Ch. 8 – pp 89-101
		Wikipedia entry	https://en.wikipedia.org/wiki/Correlation_d
		M (1 (2000)	oes not imply causation
		Matthews (2000)	http://robertmatthews.org/wp-
			content/uploads/2016/03/RM-storks-
	C III : c	T , 1 1	paper.pdf
	Causal Heuristics	Lecture based	1,, //1 11 /1 /17 , ,1:1 10
	The Logic of	Stanovich (Ch. 6 – pp 85	http://zhornikov.ru/docs/How_to_think.pdf
	Experimentation	- 106)	1 / / / / / / / / / / / / / / / / / / /
	Rival Hypotheses in	Pyke & Agnew	http://www.msu.edu/user/kerr/SP636/Pyke.
	Simple Experiments	A 1	Agnew.pdf
	Threats to Internal	Anderson	https://www.msu.edu/user/kerr/SP636/And
	Validity in Experiments	I actions have d	erson.Pt2.pdf
	Distinguishing True	Lecture based	
	Experiments from		
	Imposters Complex Consolity	Stangariah (Ch. O. no. 142	http://who.milyon.my/doog/Horry to think add
	Complex Causality	Stanovich (Ch. 9 – pp 143 – 150)	http://zhornikov.ru/docs/How_to_think.pdf
		- 130)	
10. Evaluating	Essentials of Surveys	Schwarz	https://www.msu.edu/user/kerr/SP636/Sch
Non-Experimental	Essentials of Burveys	Schwarz	warz.pdf
Evidence	Quasi-Experiments and	Babbie	http://www.msu.edu/user/kerr/SP636/Babb
Evidence	Evaluation Research	Baoole	ie.pdf
	Naturalistic Observation	Lecture Based	<u>10.pur</u>
	Naturanstic Observation	Lecture Based	
11. Generalization	Alternative Models for	Lecture Based	
11. Generalization	Generalization	Lecture Bused	
	Artificiality	Stanovich (Ch. 7 – pp 107	http://zhornikov.ru/docs/How_to_think.pdf
	Aitmentity	- 121)	http://zhornikov.ru/does/11ow_to_think.pdr
	Barnum Effects	Lecture Based	
	Darmani Dilocto	Locture Dused	

Topic	Subtopic	Authors	Portion and Pages
12. General	Basic Rules for	Lecture Based	
Strategies for	Evaluation		
Evaluating	Talking Back	Huff	Ch. 10 – pp 124-144
Evidence	Converging Evidence	Stanovich (Ch. 8 – pp 123	http://zhornikov.ru/docs/How_to_think.pdf
		– 142)	
	Research Produces &	Lecture Based	
	Consumers		
13. Topical	Readings TBD		
Exercises			