

Outline Fall 2020 (8/7/2020)

Date (Thurs)	Topic	Reading		Videos			HW & EX to be turned in by Wed 10AM (Submit in Assignments in iCollege)			Articles (or Lectures) Presented by Students on Thurs (Submit PPT in Discussions in iCollege by Wed 10AM)	
		Required	Optional	#	Title	Time	HW	EX	Due	Articles (or Lectures) Presented	by
		Main Textbook	Other Textbooks, Articles, etc.								
Week 1 (8/27)	Background	HSR Ch.1	De Ayala Ch. 1	B5010 (Module 1)	Intro (HSR Ch.1)	3:11					
Week 2 (9/3)	Review of CTT Intro. To IRT Math Review for IRT		C&A Ch. 6, 7 C&A Ch.14 ITEMS:CTT vs. IRT ITEMS:Reliability ITEMS:SEM	B5020 (Module 2) E5020	CTT vs. IRT Math for IRT	12:39	Non-Excel HW 0 (CTT.ppt)	Ch. 1	Wed 9/2	*Furgan, et al. (20) (Comparison of IRT and CTT)	1
Week 3 (9/10)	IRT Models Intro to Simulation Excel/SAS Demo	HSR Ch.2	De Ayala Ch.2,5,6	B5030 (Module 3) B5031 (Module 4) E5030 T5031 E5035 T5035	Models P1 (HSR Ch.2) Models P2 (HSR Ch.2) Dichotomous IRT Models Basic IRT Practice Video by Merrin Simulation Simulation Using SAS by Oshima	10:00 8:34 6:50 19:01 16:58 12:12	ExcelHW1 (CTT)	Ch.2	Wed 9/9	<Watch SAS Tutorial if new to SAS.> *Harris (89)(ITEMS: 1P, 2P, 3P) *Feinberg, et al. (16) (ITEMS: Simulation)	2 3
Week 4 (9/17)	Parameter Estimation Intro to BILOG-MG/IRTPRO	HSR Ch.3	De Ayala Ch.3,4	B5040 (Module 5) E5040 T5040 T5041 T5045 (optional) T5046 (optional) T5047 (optional)	Estimation (HSR Ch.3) Estimation IRTPRO by Elena IRT 3P Model by Cameron LTM - R by Qi IRT in Mplus by Tianna IRT in HLM7 by Elena	17:08 15:43 13:55 7:53 10:12 3:24 21:25	ExcelHW2 (ICC)	Ch.3	Wed 9/16	Sarah's Guide to Excel for IRT *Oshima (94)(Speededness) *Paek & Han (12) IRTPRO	4 5
Week 5 (9/24)	Model Estimation/fit IRTPRO Demo	HSR Ch.4		B5050 (Module 6) E5050 E5050	Fit (HSR Ch.4) Model Fit FIT for IRT	8:40	ExcelHW3 (Estimation) IRTPRO Exercise, if possible.	Ch.4	Wed 9/23	*Ames & Penfield (15) (ITEMS: Item Fit)	6
Week 6 (10/1)	The Ability Scale Information and Efficiency	HSR Ch.5-6		B5060 (Module 7) B5061 (Module 8) E5060	Ability (HSR Ch.5) Info. (HSR Ch. 6) Information	4:48 6:58	ExcelHW4 (Fit)	Ch.5-6	Wed 9/30	*Shaftel (05)(Disability)	7
Week 7 (10/8)	Test Construction	HSR Ch.7		B5070 (Module 9)	Test Const. (HSR Ch.7)	5:14	ExcelHW5 (Info)	Ch.7	Wed 10/7	*Sedransk (18) About IRT Models	8
Week 8 (10/15)	Exam 1 - Due Wed 10/14 10AM Exam 1 Review/Project						Exam 1		Wed 10/14		
Week 9 (10/22)	Intro to Polytomous IRT		De Ayala Ch. 7, 8	E5090 T5090	Polytomous IRT Intro to Polytomous IRT by Stacey, Terrence, Kathleen	11:30 22:02				**Penfield (14) (ITEMS: Poly IRT) *Hiramatsu, et al. (20) (Shame and IRT, Japanese Version)	9 10
Week 10 (10/29)	Differential Item Functioning (DIF)	HSR Ch.8	De Ayala Ch.12	B5100 (Module 10) E5100 T5100	Intro to DIF DIF DIF in IRTPRO by Reeny	13:03 5:57		Ch.8	Wed 10/28	*Gomes-Benito et al. (18) (DIF and Validity) *Oshima & Morris (08)(ITEMS: DFIT)	11 12
Week 11 (11/5)	DIF Continues	HSR Ch.8		T5111 (no sound) T5112 (no sound)	DFIT for Dichotomous Data DFIT for Polytomous Data	4:35 5:13	ExcelHW6 (DIF)		Wed 11/4	*Woods, et al. (13)(Wald Test) *Oshima, et al. (15) (MG DFIT)	13 14
Week 12 (11/12)	Equating	HSR Ch.9	De Ayala Ch.11	B5120 (Module 11) E5120 T5120	Intro to Linking Linking Linking	7:43		Ex.Ch.9	Wed 11/11	*Malatesta (19) Equating Software *Fikis & Oshima (17) (Purification)	15 16
Week 13 (11/19)	Computer Adaptive Testing (CAT) Multidimensional IRT	HSR Ch.10		B5130 (Module 12) E5140 T5140	Intro to CAT MDIRT by Jieru Intro to MD IRT by Tianna and Jieru	11:59 18:12	ExcelHW7 (TCC) Project due	Ex.Ch.10	Wed 11/18 Wed 11/18	*Thompson & Weiss (11) (Practical Guidance on CAT) *Ackerman et al. (03) (ITEMS: MD IRT)	17 18
<11/23-11/28 Thanksgiving Break>		HSR Ch.11									
Week 14 (12/3)	Exam 2 - Due Wed 12/2 10AM Project Presentations						Exam 2		Wed 12/2		

Note 1: Yellow slots 1 - 8 will be assigned on the first day. Yellow slots 9 - 18 will be assigned later.
Note 2: The video prefix indicates the type of videos.

Note 3: Videos in gray are still not available. Videos highlighted in yellow indicate possible project videos.
Note 4: This outline is a tentative plan. Deviation may be necessary.