

**Department of Instructional Technology & Learning Sciences**

Utah State University

Effective for Students admitted Summer 2023 to current

**Program Requirements:** The PhD degree program requires a minimum of **48** credits with a master's degree in this field. A minimum of **54** credits, including ITLS master's core courses, are required for students with a master's degree in a field other than Instructional Technology or Learning Sciences. Students who do not have a master's degree will be required to complete a minimum of **70** credits, including ITLS master's core courses. Students have 8 calendar years to complete all degree requirements.

Delivery formats: O = Online only, I = In Person only, H = Hybrid (at least 50% in-person), C = Connect (formerly IVC), V = Virtual (formerly web broadcast), O = Online (asynchronous), X = Check catalog for most up to date information\ Additional information for specific classes: ^ = odd years, \* = even years, & = may be taken more than one time for credit. A number after delivery format shows the suggested year of the program.

Check the ITLS website for the courses available each semester: <https://cehs.usu.edu/itls/courses>

<b>Core Courses – 15 credits required</b>			<b>Credits</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>	<b>Prerequisites</b>
ITLS	6310	ITLS PhD Orientation (2 credits Fall; 1 credit Spring)	3	I-1	I-1		Program Admittance
ITLS	7011	Introduction to Theories and Methods of ITLS I	3	I-1			Program Admittance
ITLS	7015	Introduction to Theories and Methods of ITLS II	3		I-1		ITLS 7011
ITLS	7021	Conducting a Literature Review	3		I-I		ITLS 7011
ITLS	7025	Foundations in ITLS	3	I-2			ITLS 7011, 7015, 7021

<b>Research Methods Courses – 12 credits – 3 required courses and then 1 additional course</b>							
Note: There are 3 required courses because the college is requiring the two-sequence minimum for basic quant methods. Taking as many methods classes as possible is encouraged. Students can, in consultation with their advisor open up a methods slot by taking EDUC 6050 (applied statistics) instead of EDUC 6600 and 7610. Note that taking 6050 will close the door to advanced methods classes for which 6600 and/or 7610 are prerequisites. Students no longer need to take EDUC 6570, that material is now covered in ITLS 7015.							
			<b>Credits</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>	<b>Prerequisites</b>
EDUC	6600	Statistical Foundations	3	X	X	X	Co-requisite ITLS 7015
EDUC	7610	Regression Analysis	3	X	X	X	EDUC 6600
EDUC	6770	Qualitative Research Methods	3	X	X		Co-requisite ITLS 7015
<b>And choose one course from the following. Note if you want to take more than 12 credits of Methods courses you can take them as electives.</b>							
ITLS	7340	Building Community Partnerships in Research Contexts	3		V^		-
ITLS	7350	Ethnography	3	V*			EDUC 6770

ITLS	7870	Introduction to Learning Analytics	3		I^		
EDUC/ PSY	6010	Introduction to Program Evaluation	3	V			PSY 6010
EDUC	6800	Mixed Methods	3		C		EDUC/PSY 6600, EDUC 6770
EDUC	7670	Literature Reviews in Education and Psychology	2		I^		EDUC/PSY 6600
ITLS	6760	Grant Writing	3		I*		
ITLS	7870	Design Based Implementation Research	3	I^			
PSY	6330	Principles of Psychological Measurement and Test Theory	3	I/V			EDUC/PSY 6600
PSY	6560	Introduction to Psychological Research	3	I			-
PSY	7070	Advanced Measurement Theories and Practice	3				EDUC/PSY 6600
PSY	7090	Quantitative Psychology Seminar	1	I	I		-
PSY	7650	Multilevel and Marginal Models for the Social Sciences	3	I			EDUC/PSY 7610
PSY	7760	Structural equation modeling	3	I			EDUC/PSY 7610
PSY	7770	Longitudinal data analysis	3		I^		PSY 7760
HDFS	6031	Research Methodology	3	I			-
HDFS	7032	Multivariate Data Analysis in Human Development and Family Studies	3		I		EDUC/PSY 7610
HDFS	7033	Dyadic and Longitudinal Data	3	I^			EDUC/PSY 7610
HDFS	7034	Extant/Secondary Data Analysis	3	I*			EDUC/PSY 7610
HDFS	7200	Special Topics: Meta Analysis	3				-
TEAL	7546	Thinking with Theory in Qualitative Research	3	I			EDUC 6770
TEAL	7547	Qualitative Data Analysis	3		I		EDUC 6770
Complete the online responsible conduct of research training, “social and behavior research” focus: <a href="https://research.usu.edu/compliance/responsible-conduct-of-research">https://research.usu.edu/compliance/responsible-conduct-of-research</a>							

Other methodology courses (Computer Science, English, Sociology, etc.) with chairperson approval

<b>General Electives– 9 credits required</b>			<b>Credits</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
In addition to courses listed above under Research Methods, these courses are suggested general electives, feel free to coordinate with your advisor on specific classes to support your program of study.						
ITLS	7545	Sociocultural Theory	3	V		
ITLS	6910	Independent Research	1-6	X	X	
ITLS	6320	Writing for Design	3		O	O
ITLS	6730	Games and Learning	3	O		
ITLS	6270	Digital Making and Learning	3		I	

Other General Electives as approved by chairperson

**Dissertation – 12 credits required for student's w/M; 18 required for student's w/BS**

ITLS	7970	Dissertation	1-18
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**Master's Core Courses – 6 credits (required w/out ITLS master's degree)**

			Credits	Fall	Spring	Summer
ITLS	6520	Instructional Design I	3		I/O	
ITLS	6535	Design Thinking	3	I/O		

Note: Around 30% of our PhD students navigate their degree while working full time jobs elsewhere. Since a full graduate load of 9 credits/semester is more challenging for them we recommend the following sequence for these students:

<b>Core Courses – 15 credits required</b>		Credits	Fall	Spring
ITLS	6310 ITLS PhD Orientation	3	I1	
ITLS	7011 Introduction to Theories and Methods of ITLS I	3	I2	
ITLS	7015 Introduction to Theories and Methods of ITLS II	3		I1
ITLS	7021 Conducting a Literature Review	3		I2
ITLS	7025 Foundations in ITLS	3	I3	

Pre-requisite details for the doctoral core can be found above.

**Department of Instructional Technology & Learning Sciences**

Utah State University

**Old form**

**Effective for students admitted prior to Summer 2023**

**Program Requirements:** The PhD degree program requires a minimum of **43** credits with a master's degree in this field. A minimum of **52** credits, including ITLS master's core courses, required for students with a master's degree in a field other than Instructional Technology or Learning Sciences. Students who do not have a master's degree will be required to complete a minimum of **70** credits, including ITLS master's core courses. Students have 8 calendar years to complete all degree requirements.

O = Online only, F = Face to Face only, B = Both Face to Face and Online options, S = Synchronous Broadcast, X = Check Catalog  
Check the ITLS website for the courses available each semester. [<http://itls.usu.edu/courses/schedule>]

**Core Courses – 7 credits required**

			Credits	Fall	Spring	Summer	Prerequisites
ITLS	6300	ITLS Orientation	1	O	O	O	Program Admittance
ITLS	7000	Pro-seminar in Instructional Technology	3	F			Program Admittance; Master's Core
ITLS	7300	Research in Instructional Technology & Learning Sciences	3		F		EDUC 6570 & ITLS 7000: Pro-seminar

**Research Methods Courses – 12 credits required**

EDUC	6570	Introduction to Educational and Psychological Research	3	X	X	X	
EDUC	6600	Research Design and Analysis I	3	X	X	X	EDUC 6570
EDUC	6770	Qualitative Methods I	3	X	X		EDUC 6570

**Choose one course from the following**

ITLS	7340	Building Community Partnerships in Research Contexts	3		S^		
ITLS	7350	Ethnography	3	S^			EDUC 6770
EDUC	7610	Regression Analysis*	3	X	X	X	EDUC 6600
EDUC	6010	Introduction to Program Evaluation	3	X			

\*Note: The sequence of EDUC 6600 and EDUC 7610 have substantially changed since 7610 was a recommended class as part of our PhD planning sheets. Currently, taking only 6600 is an incomplete introduction to quantitative methods. Students looking to take a single quantitative class are better served consulting with their advisor about EDUC 6050 instead of 6600. The combination of 6600 and 7610 is highly recommended.

Complete the online responsible conduct of research training <https://gradschool.usu.edu/online-rcr-training/> with the "social and behavioral research" focus

Other methodology courses (Computer Science, English, Sociology, etc.) with chairperson approval

**Dissertation – 12 credits required for students w/MS 18 required for students w/BS**

ITLS	7970	Dissertation**	1-18	ARR	ARR	ARR	
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**Master's Core Courses - 9 credits (required w/out ITLS master's degree)**

ITLS	6520	Instructional Design I	3		B		
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ITLS	6535	Design Thinking	3	B			
ITLS	6540	Learning Theory	3	B			

^ Taught alternating years

\* Taught periodically, check schedule for availability and delivery format

\*\*May be taken more than one time for credit

<b>General Elective Course Options – 12 credits required</b>				<b>Credits</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
ITLS	5000	School Library Foundation and Learning	3	S			
ITLS	5015	School Library Organization and Access	3	S			
ITLS	5025	School Library Instruction and Assessment	3		S		
ITLS	5030	School Library Literacy and Programs	3		S		
ITLS	5040	School Library Leadership and Administration	3				S
ITLS	6205	Instructional Media Production	3		O		O
ITLS	6210	Virtual Environment and Development	3	O			O^
ITLS	6215	Video and Audio Design and Production I	3	O			O
ITLS	6220	Video and Audio Design and Production II	3		O		
ITLS	6230	Graphic Design and Production I	3		O		O
ITLS	6240	Graphic Design and Production II	3	O			
ITLS	6245	E-learning Authoring Tools	3		O		O^
ITLS	6260	Mobile Design and Development for Learning	3		O		
ITLS	6265	Internet Development	3	B	B		O
ITLS	6270	Digital Making & Learning	3		F		
ITLS	6320	Writing for Design	3				O
ITLS	6390	Transformative Uses of Technology for Learning	3				O
ITLS	6510	Evaluation and Research	3		B		
ITLS	6520	Instructional Design I	3		B		
ITLS	6530	Instructional Design II	3	B			
ITLS	6535	Design Thinking	3	B			
ITLS	6540	Learning Theory	3	B			
ITLS	6545	Advanced Learning Theory*	3				
ITLS	6560	Project and Organizational Management	3		B		
ITLS	6570	Performance Systems	3				O
ITLS	6650	Research Seminar**	1-3				
ITLS	6720	Adult Education, Theory & Practice	3				O
ITLS	6730	Games & Learning	3	O			
ITLS	6760	Grant and Proposal Writing	3	O			
ITLS	6870	Current Issues Seminar*	1-3				
ITLS	6900	Independent Study	1-6	ARR	ARR		ARR
ITLS	6910	Independent Research	1-6	B	B		
ITLS	7820	Practicum in Instructional Technology**	2	ARR	ARR		ARR
ITLS	7900	Independent Study**	1-6	ARR	ARR		ARR
ITLS	7910	Independent Research**	1-6	ARR	ARR		ARR
Other courses approved by your chairperson							

^ Taught alternating years

\* Taught periodically, check schedule for availability and delivery format

\*\*May be taken more than one time for credit