

M.S. IN CLINICAL AND TRANSLATIONAL RESEARCH: DEGREE CHECKLIST

1) MASTER'S DEGREE CORE (27 Credits)

A = Autumn W = Winter S = Spring U = Summer All course numbers are 26-BE unless indicated otherwise.

Course #	Course Title	Credits	Quarter	Completed
26-BE-828/829/ 830	Epidemiology and Biostatistics Seminar*	3	A/W/S	
26-BE-787	Introduction to Biostatistics	4	U/A	
26-BE-776	Introduction to Epidemiology	3	U/W	
26-BE-973	Molecular Epidemiology	3	S	
26-BE-767/ 26-GNTD-730	Scientific Integrity or Ethics in Research	1	U/ W	
26-BE-975	Design & Management of Field Studies in Epidemiology	4	S	
26-BE-869	Study Design & Analysis	3	W	
26-BE-966	Clinical Research Scholars Seminar**	1	A/W/S	
	At least 2 credits in statistical programming	min. 2		
26-BE-778	- Introduction to SAS Programming	2	U/A	
26-PH-705	-Statistical Analysis for Public Health Practitioners	4	W	
18-CJ-901	-Advanced Data Analysis	3	A	
	-Or any statistical programming course approved by your academic advisor			
	Additional 3 credits in a biostatistics course (**select one):	min. 3		
26-BE-797	***Categorical Data and Logistic Analysis	3	A	
26-BE-761	***Biostatistics in Research	3	W	
26-BE-762	***Applied Longitudinal Data Analysis	3	S	
26-BE-864	***Advanced Statistical Methods in Biomedical Research	3	S	
26-BE-788	***Regression Analysis	4	W	
26-BE-961	***Meta-Analysis	3	W	
	or any biostatistics course offered within the Division of Epidemiology & Biostatistics.			
26-ENV-791	Master's Thesis Research	3	A/W/S	

*Students must present their research in at least one division seminar. The presentation will fulfill that quarter's attendance requirement.

**Clinical Research Scholars class is held once a month for the fall, winter and spring quarters. You cannot register for this course until spring quarter, but attendance is taken and credit given if you have attended the required number of sessions.

Trainees may fulfill the remaining 18 credit hours by:

(a) completing a focus area; (b) completing additional electives of choice; and/or (c) completing research.

2) FOCUS AREAS - Trainees may select one of five focus areas to receive specialized training in clinical research and fulfill the course requirements for the M.S. degree.

a) Clinical Epidemiology/Clinical Effectiveness (16 Credits)

Course #	Course Title	Credits	Quarter	Completed
26-BE-766	Principles of Clinical Trials	3	A	
26-BE-788	Regression Analysis	4	W	
26-BE-867	**Health Services Research	3	A	
26-BE-862	**Introduction to Biomedical Informatics (<i>even years</i>)	3	W	
26-BE-768	**Decision Analysis and Cost-Effectiveness Analysis	3	W	
26-BE-770	**Survey and Qualitative Methods in Health Research (<i>odd years</i>)	2	S	
26-BE-769	**Quality Improvement and Patient Safety	3	A	

** Must take 3 of the listed 5 courses.

b) Clinical Trials (15 Credits)

Course #	Course Title	Credits	Quarter	Completed
26-BE-766	Principles of Clinical Trials	3	A	
25-PHDD-601	Global Drug Development	3	A	
25-PHDD-701	Clinical Trials Design and Research II	3	A	
25-PHDD-703	Clinical Trials Design and Research III	3	W	
25-PHDD-606	Regulatory Affairs II	3	S	

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c) Molecular Epidemiology (17 + varied credits for lab rotation)

Course #	Course Title	Credits	Quarter	Completed
26-BE-866	Molecular Epidemiology Laboratory	1	S	
26-BE-868	Genetics of Complex Diseases (<i>odd years</i>)	3	A	
26-GNTD-871	Introduction to Molecular Genetics	3	A	
26-CB-880	Biology of Cancer or	3	S	
35-GC-881	Human Genetics I (<i>odd years</i>)	3	A	
26-BE-763	Pediatric Environmental Health (<i>even years</i>)	3	S	
26-BE-788	Regression Analysis (fulfills the biostatistics core curriculum requirement)	4	W	
Independent Study	Laboratory Rotation (3 quarters/rotations required)	Varied	A/W/S	

d) Translational Research (11 Credits)

Course #	Course Title	Credits	Quarter	Completed
25-PHDD-605	Clinical Trials Design and Research I	3	S	
25-PHDD-602	Regulatory Affairs I: Pre-Clinical/IND	3	A	
26-DB-987	Disease and Development (<i>even years</i>)	3	A	
26-BE-TBA	Patient Specimen Methods	1	W	
26-BE-TBA	Disease Specific Translational Research	1	W	

e) Research Informatics ("T1" Translational Track) (Minimum 16 Credits)

Course #	Course Title	Credits	Quarter	Completed
26-BE-862	Introduction to Biomedical Informatics	3	W	
26-BE-XXX	Clinical Research Informatics	3	TBA	
20-BME-643	*Introduction to Bioinformatics	3	W	
20-BME-642	*Large Biological Databases	3	W	
20-BME-641	*Functional Genomics	3	A	
20-BME-881	*Introduction to Functional Genomics Prerequisite: 26-GNTD-881	2-4	S	
20-BME-640	*Computational Genomics	3	A	
20-BE-768	*Decision Analysis and Cost-Effectiveness Analysis	3	W	
22-IS-732	*Data Modeling and Database Design	4	A	

*Must take 3 of the listed 7 courses.

e) Research Informatics ("T2" Clinical Track) (Minimum 16 Credits)

Course #	Course Title	Credits	Quarter	Completed
26-BE-862	Introduction to Biomedical Informatics	3	W	
26-BE-XXX	Clinical Research Informatics	3	TBA	
20-BE-768	Decision Analysis and Cost-Effectiveness Analysis	3	W	
26-BE-867	*Health Services Research	3	S	
26-BE-769	*Quality Improvement & Patient Safety	2	A	
22-IS-724	*IS/IT Architecture	4	A	
22-IS-715	*Java in the Enterprise	4	W	
22-IS-732	*Data Modeling and Database Design	4	A	
22-IS-740	*Business Intelligence (Data Warehousing) Prerequisite: 22-IS-732	4	W	
20-CS-602	*Programming for Artificial Intelligence	2	TBA	

*Must take 2 of the listed 7 courses.

3) THESIS

Approval of Statement of Intent (date)

Approval of Thesis (date)
