HEALTH OUTCOMES RESEARCH, PH.D. & MEDICINE, M.D. DUAL DEGREE

As one of the few universities to offer such a degree, Saint Louis University has designed its M.D./Ph.D. dual degree program in health outcomes research to prepare students to be excellent doctors and clinical researchers.

A student with a Ph.D. in health outcomes research in addition to an M.D. will have a competitive edge when applying for residency and will be able to start a strong research career in medicine before they complete their training as a physician. Guided by outcomes research faculty with expertise in multiple areas of medicine, graduates leave the program prepared to provide excellent medical care and evaluate patient outcomes and preferences, compare the effectiveness of treatments and establish evidence to improve the final stages of care.

Scholarships and Financial Aid

For priority consideration for graduate assistantship, apply by Feb. 1.

For more information, visit the student financial services office online at https://www.slu.edu/financial-aid/index.php (https://www.slu.edu/financial-aid/). (https://www.slu.edu/financial-aid/)

Admission

Students must first be admitted to the School of Medicine to be considered for acceptance into the M.D./Ph.D. in health outcomes research program. Consideration for the program is available to all interested applicants to the School of Medicine, with a preliminary application provided upon request.

Most trainees are chosen in the early spring to begin their research training by mid-June before commencing their first year of M.D. studies in mid-August. Other qualified individuals may apply after starting their M.D. training.

Applicants to the M.D./Ph.D. program are screened by the steering committee for the M.D./Ph.D. program.

Requirements

Students begin their program by completing the first and second years of their M.D. studies. By the winter of their second year of medical studies, students will select a Ph.D. mentor from SLU's Department of Health and Clinical Outcomes Research.

Completion of all Ph.D. candidacy requirements and oral defense of the doctoral dissertation is followed by a transitional clerkship that facilitates re-entry into the third and fourth years of M.D. studies.

Nine credits from the M.D. program will count towards the completion of the Ph.D. in health outcomes research.

Trainees in this program should complete all requirements for both degrees within seven to eight years and students are expected to complete both the M.D. and Ph.D. components on a full-time basis.

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Year One EPI 0100	Enidomialogy and Disptatiation	Credits
	Epidemiology and Biostatistics Foundations in Health Care Ethics	3
HCE 0101 HQI 0101	Fundamentals of Patient Safety	1
MD 0100	Professional and Personal Development I	1
MED 0100	Molecular Foundations in Medicine	3
MED 0100	Clinical Interviewing	6
MED 0101	Clinical Diagnosis	8
MED 0102	Leadership in the Business of Medicine	6
MED 0103 MED 0104	Medicine & Society	1
MED 0104 MED 0110	Normal Structure and Function:	7
WED 0110	Musculoskeletal	,
MED 0120	Normal Structure and Function: Thorax & Head	5
MED 0130	Normal Structure and Function: Abdomen & Pelvis	3
MED 0140	Introduction to Pathology	3
MED 0150	Principles of Immunology, Pharmacology, and Therapeutics	7
MED 0160	Brain & Behavior	6
MED 0170	Cardiovascular System	4
M1s take either to	wo 6 wk electives or one 12-wk elective	6
	Credits	71
Year Two		
RMED 0101	Bench to Bedside	1
HCE 0201	Clinical Reasoning in Health Care Ethics	1
HQI 0201	Fundamentals of Quality Improvement	1
MD 0202	Professional and Personal Development II	1
MED 0200	Hematology	2
MED 0202	Clinical Diagnosis	1
MED 0203	Leadership in the Business of Medicine	1
MED 0204	Medicine & Society	1
MED 0210	Respiratory System	4
MED 0220	Renal Urinary System	4
MED 0230	Gastrointestinal System	4
MED 0240	Endocrine and Reproductive System	4
MED 0250	Skin, Bone and Joint Module	3
Vaca Three	Credits	28
Year Three	Family Madiaina Olaykahin	
FCM 0301 IM 0301	Family Medicine Clerkship	6
N 0301	Internal Medicine Clerkship	8
OB 0301	Neurology Clerkship Obstetrics, Gynecology, and Women's	6
	Health Clerkship	
PED 0301	Pediatric Clerkship	8
PS 0301	Psychiatry Clerkship	3
S 0301	Surgery Clerkship	8
	n - two 2 week selectives	4
APCS 0300	Applied Clinical Skills 3	1
FCM 0430	Inter-Professional Team Seminars	1
V F	Credits	49
Year Four	Poguired Ambulatani Madiain	
IM 0451	Required Ambulatory Medicine	4

	Total Credits	192
	Credits	44
CAP 0400	Required Capstone	2
Intramural/Extramural Electives		30
Acting Interns	4	
EM 0410	Emergency Medicine	4

Ph.D. Requirements

Code	Title Ci	edits	
Required Courses	S		
ORES 5010	Introduction to Biostatistics for Health Outcomes	3	
or HDS 5310	Analytics and Statistical Programming		
ORES 5150	Multivariate Analysis for Health Outcomes Research	3-4	
or HDS 5320	Inferential Modeling		
ORES 5160	Data Management	3	
ORES 5300	Foundations of Outcomes Research I	3	
ORES 5320	Scientific Writing and Communication	3	
ORES 5430	Health Outcomes Measurement	3	
ORES 6990	Dissertation Research (taken over multiple semesters, 12hrs total)	0-6	
Elective Courses			
Select three cour	ses from the following:	9	
HCE 6120	Bioethics and the Law		
HDS 5230	High Performance Computing		
HDS 5330	Predictive Modeling and Machine Learning		
HMP 5000	Health Care Organization		
ORES 5400	Pharmacoeconomics		
ORES 5410	Evaluation Sciences		
ORES 5560	R Programming		
ORES 5550	SAS Programming I		
ORES 5260	Pharmacoepidemiology		
ORES 5440	Comparative Effectiveness Research		
ORES 6980	Advanced Graduate Readings in Outcomes Research		
Dual Degree Cred	lit		
9 credits accepte	d from the M1/M2 of the MD curriculum, as follows	::	
Principles of Pha	rmacology	3	
Fundamentals of Biomedical Science			
Biostatistics		1	
Elective in Clinical Research			
Health Care Ethics			
Total Credits	4	18-49	

Continuation Standards

Students must maintain a cumulative grade point average (GPA) of 3.00 in all graduate/professional courses.