

UCLA CTSI Training Program in Translational Science

MSCR Research/Biomedical Informatics MD/MS Timeline for 2025-26

REQUIREMENTS: 32 units required courses, 8 units electives, 8 units Biomath 596*

- *ELECTIVES: must be graduate-level (200 or 400) basic science courses, but can be in any department.
- *BIOMATH 596: directed individual study with your assigned quantitative mentor.
- *Note: Contact your quantitative mentor each quarter you take 596 to confirm units and study plan.

TRAINING YEAR

Courses

- Bioeng 220
- Bioeng M227
- Biomath 170A
- Biomath 260C
- Biomath 261

Projects

- When requested, submit research abstract for capstone committee selection
- Finalize aims and hypothesis with your scientific mentor
- Obtain dataset for cleaning from your scientific mentor
- Meet with your assigned capstone committee

Courses

WINTER

- Biomath 265A
- Biomath 266A
- 4 units of elective
- 4 units Biomath 596 with assigned quantitative mentor

Projects

- Work on statistical analysis plan (assigned to you) with quantitative mentor
- Statistical analyses with your quantitative mentor
- Meet with your assigned capstone committee

Courses

SPRIN

- Bioeng M226
- Biomath 266B
- 4 units of elective
- 4 units Biomath 596 with assigned quantitative mentor

Projects

- Meet with your assigned capstone committee
- Advance to Candidacy: When requested, submit ATC form and transcript
- Finish manuscript draft (with scientific and quantitative mentors) for capstone committee review
- Oral presentation of capstone to your full committee
- Capstone committee submits results to Student Affairs Officer

2025-26 TPTS Course Offerings

(Subject to change. Confirm through your MyUCLA portal or here)

Courses with * are required at some point during training. Others listed are suggested electives.

Fall Instruction	: Sep 25	- Dec 12
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* Bioeng 220	Introduction to Medical Informatics			
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* Bioeng M227	Medical Information Infrastructures and Internet Technologies			
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* Biomath 170A	Introductory Biomathematics for Medical Investigators			
	M/W	12:00 pm - 1:20 pm	4	Myung Shin Sim, Jeff Gornbein
* Biomath 170A Disc	Discussion for 170A			
	W	1:30 pm - 2:20 pm	0	Jeff Gornbein
Biomath 260A	Methodology in Clinical Research I: Clinical Trials			
	M/W	10:00 am - 11:20 am	4	Chi-hong Tseng
* Biomath 260C	Methodology in Clinical Research III: Observational Studies			
	M/W	8:30 am - 9:50 am	4	Teresa Seeman, Magda Shaheen
* Biomath 261	Responsible Conduct of Research Involving Humans			
	W	4:00 pm - 5:50 pm	2	Neil Wenger

Winter Instruction: Jan 05 - Mar 20

Biomath 259	Controversies in Clinical Trials		
	T 8:30 am - 9:50 am	2 David Elashoff, Veena Ranganath	
* Biomath 265A	Data Analysis Strategies I*		
	M/W 12:00 pm - 1:20 pm	4 Jeff Gornbein	
* Biomath 266A	Applied Regression Analysis in Medical Sciences		
	M/W 10:00 am - 11:20 an	n 4 Alexandra Klomhaus	
Biomath 268	Analysis of Electronic Health Records		
	M/W 8:30 am - 9:50 am	4 Jeffrey Chiang	
Biomath M262	Communication of Science (Grant/Journal Writing)		
	M/W 8:30 am - 9:50 am	4 David Elashoff, Veena Ranganath	

Spring Instruction: Mar 30 - Jun 12

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* Bioeng M226	Medical Knowledge Representation		
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Biomath 260B	Methodologies in Clinical Research II		
	M/W 9:30 am - 10:50 am	4 Myung Shin Sim, David Elashoff	
* Biomath 266B	Advanced Biostatistics		
	M/W 11:00 am - 12:20 pm	Nicholas Jackson, Li-Jung Liang	
Biomath 267	Machine Learning for Medicine		
	M/W 1:00 pm - 2:20 pm	David Elashoff, Angshuman Saha	
Biomath 269	Al Applications in Medicine		
	W 2:30 pm - 3:50 pm	2 Jeffrey Chiang, David Elashoff	
Biomath 285	Introduction to High-throughput Data Analysis		
	M/W 1:00 pm - 2:20 pm	David Elashoff, Jin Zhou	

Stats 102A: Introduction to Computational Statistics with R may be substituted for Biomath 265A