



UCLA CTSI Training Program in Translational Science

MSCR Research / AI/Machine Learning

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

FALL	<u>Courses</u> - Biomath 170A - Biomath 260C - Biomath 261 - 2 units of Biomath 596 with assigned quantitative mentor	<u>Projects</u> - 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
WINTER	<u>Courses</u> - Biomath 265A - Biomath 266A - Biomath 268 - 4 units of elective - 2 units Biomath 596 with assigned quantitative mentor	<u>Projects</u> - Work on statistical analysis plan (assigned to you) with quantitative mentor - Statistical analyses with your quantitative mentor - Meet with your assigned capstone committee
SPRING	<u>Courses</u> - Biomath 266B - Biomath 267 - Biomath 269 - 4 units of elective - 4 units Biomath 596 with assigned quantitative mentor	<u>Projects</u> - 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

* 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 am
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

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
4	Nicholas Jackson, Li-Jung Liang
* Biomath 267	Machine Learning for Medicine
M/W	1:00 pm - 2:20 pm
4	David Elashoff, Angshuman Saha
* Biomath 269	AI 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
4	David Elashoff, Jin Zhou

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