



UCLA CTSI Training Program in Translational Science

MSCR Research/Biomedical Informatics

2023-24 Timeline for MD/MS

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 is directed individual study with your assigned quantitative mentor.

**Contact this mentor each quarter you enroll in 596 to confirm units and study plan.

TRAINING YEAR

FALL

- Bioeng 220
- Bioeng M227
- Biomath 170A
- Biomath M260C
- Biomath M261
- Submit research abstract to aid in capstone committee selection (requests sent in early Fall)
- Meet with assigned committee

WINTER

- Biomath 265A*
- Biomath 266A
- Enroll in 4 units of elective
- Enroll in 4 units of Biomath 596 directed individual study with assigned quantitative mentor
- Meet with assigned committee

SPRING

- Bioeng M226
- Biomath 266B
- Enroll in 4 units of elective
- Enroll in 4 units of Biomath 596 directed individual study with assigned quantitative mentor
- Meet with assigned committee
- Advance to Candidacy: submit ATC form and transcript copy to Student Affairs Officer
- Oral presentation of capstone to your full committee
- Capstone committee Chair submits results to Student Affairs

2023-24 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 28 - Dec 15

| | | | | |
|---------------------|---|-------------------------|---|-------------------------------|
| * Bioeng 220 | Introduction to Medical Informatics | - | 2 | |
| * Bioeng M227 | Medical Information Infrastructures and Internet Technologies | - | 4 | |
| * 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 M260A | Methodology in Clinical Research I: Clinical Trials | M/W 10:00 am - 11:20 am | 4 | Chi-hong Tseng |
| * Biomath M260C | Methodology in Clinical Research III: Observational Studies | M/W 8:30 am - 9:50 am | 4 | Teresa Seeman, Magda Shaheen |
| * Biomath M261 | Responsible Conduct of Research Involving Humans | W 4:00 pm - 5:50 pm | 2 | Stan Korenman |

Winter Instruction: Jan 08 - Mar 22

| | | | | |
|----------------|--|-------------------------|---|---------------------------------|
| 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 | David Elashoff |
| Biomath M262 | Communication of Science (Grant/Journal Writing) | W 8:30 am - 9:50 am | 2 | David Elashoff, Veena Ranganath |

Spring Instruction: Apr 01 - Jun 14

| | | | | |
|----------------|---|-------------------------|---|---------------------------------|
| * Bioeng M226 | Medical Knowledge Representation | - | 4 | |
| * Biomath 266B | Advanced Biostatistics | M/W 11:00 am - 12:20 pm | 4 | Nicholas Jackson, Li-Jung Liang |
| Biomath 285 | Introduction to High-throughput Data Analysis | M/W 1:00 pm - 2:20 pm | 4 | David Elashoff, Jin Zhou |
| Biomath M260B | Methodologies in Clinical Research II | M/W 9:30 am - 10:50 am | 4 | Myung Shin Sim, David Elashoff |

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