MEDICINE

The School of Medicine seeks to attract students who are passionate about scholarship and wish to improve the health of the world’s people through research, innovation, and leadership.

Mission of the Degree Programs in Medicine

The mission of the degree programs in Medicine is to educate and inspire leaders in medicine and science who will improve human health through discovery, innovation, scholarship, education, and the delivery of outstanding patient-centered care.

Stanford is committed to representing the diversity of the U.S. and California populations by seeking a diverse body of students who are interested in the intellectual substance of medicine and committed to advancing the field of health care, broadly defined. Provided an applicant to the school has completed basic courses in physics, chemistry, and biology, the choice of an undergraduate major may reflect other interests, including the arts and humanities. Course work in advanced biology such as biochemistry, molecular biology, or genetics and the behavioral sciences is recommended because of their importance in understanding health care. Breadth of interests and depth of experiences play an important role in the selection of students from among those applicants having superior academic records.

Learning Outcomes

The following competencies serve as a guide for curriculum development and evaluation of the success of the training program and its graduates.

For additional information on the associated educational objectives please refer to the MD Program Handbook and Policy Manual Section 2.1 Competencies and Objectives for Medical Student Education (http://med.stanford.edu/md/mdhandbook/section-2-general-standards/2-1-competencies-and-objectives-for-medical-student-education.html).

1. **Patient Care:** Provide patient-centered care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health
2. **Knowledge for Practice:** Demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social-behavioral sciences, as well as the application of this knowledge to patient care
3. **Practice-Based Learning and Improvement:** Demonstrate the ability to investigate and evaluate one’s care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and life-long learning
4. **Interpersonal and Communication Skills:** Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals
5. **Professionalism:** Demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles
6. **Systems-Based Practice:** Demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care
7. **Interprofessional Collaboration:** Demonstrate the ability to engage in an interprofessional team in a manner that optimizes safe, effective patient- and population-centered care
8. **Personal and Professional Development:** Demonstrate the qualities required to sustain lifelong personal and professional growth
9. **Discovery:** Explore scientific discovery and self-discovery

Degree Programs in Medicine

The School of Medicine offers a professional degree in Medicine (MD), a Masters in Medicine (MSM), a Masters in Medicine in Biomedical Investigation, and oversees a dual-degree Medical Scientist Training Program (MD-PhD). Additional School of Medicine graduate degree programs are available on the School of Medicine Education (http://med.stanford.edu/education.html) website.

The Master of Science in Medicine (http://msm.stanford.edu/) program admits current Stanford Ph.D. students who have a commitment to translational research, but are not interested in becoming clinicians. The goal of the program is to train researchers in human biology and disease to be better equipped to translate new scientific discoveries into useful medical advances. Students offered admission into any Ph.D. program at Stanford may apply for admission to the master’s program.

The Master of Science in Medicine in Biomedical Investigation (http://med.stanford.edu/md/discovery-curriculum/BergScholarsProgram.html) program admits current Stanford M.D. students who have a commitment to becoming physician-scientists. A major goal of the program is to address decreasing numbers of physician-scientists by shortening the training period without compromising quality of research – focusing instead on individualized career development of M.D.-only Physician-Scientists by placing them in outstanding research groups led by experienced faculty.

The Doctor of Medicine (M.D.) (http://med.stanford.edu/md/discovery-curriculum.html) program provides education in biomedical and clinical sciences along with study and independent research through scholarly concentrations. Emphasis is placed on interdisciplinary learning, with streamlined content, interactive approaches, and melding of basic science and clinical instruction across the curriculum. Blocks of unscheduled time allow for individual or group study, participation in elective courses, research, and reflection. The flexible Discovery Curriculum supports student’s scientific discovery and self-discovery by offering multiple learning pathways at a more individualized pace and opportunities for pursuing a second degree, such as an M.P.H., M.B.A., Master’s of Science in Epidemiology or Health Services Research, a Ph.D., or participating in longitudinal and global health research experiences.

The Medical Scientist Training Program (MSTP) (http://med.stanford.edu/mstp.html) M.D.-Ph.D. program provides a select group of medical students with an opportunity to pursue a training program designed to equip them for careers in academic investigative medicine. Individualization of the curricular and research programs of each trainee is the hallmark of the Program. Training for a combined MD-PhD includes the same content encountered by students who pursue each degree separately, but the total time of training should be less than the sum of the time normally taken for each degree. To this end, students must plan their training carefully and commit to a rigorous and intensive period of study. The flexible curriculum at Stanford Medical School allows each student to satisfy the requirements for the MD degree and to pursue an independent research program.

In addition to a variety of other dual degree opportunities, Stanford also collaborates with the University of California, Berkeley, to offer students opportunities for M.D./M.P.H. training. Details about these programs may be found at Stanford’s Dual Degree and Multi-Degree Programs web site.

The M.D. degree requires 12 quarters of registration at full Med-M.D. tuition; the joint M.D./Ph.D. degree requires 15 quarters. Completion of the M.D. degree must be achieved within six years, unless a petition is granted to extend this time frame. For further details on the M.D. degree, including admission requirements, see the Stanford M.D. Program (http://med.stanford.edu/md.html) website.
Fellowships and Assistantships

Teaching Assistantships
The Office of Medical Education manages the Teaching Assistantships for the required M.D. courses. TAships provide medical students with an opportunity to develop teaching skills and enhance understanding of specific areas of the M.D. curriculum through teaching. Additionally, the work done by TAs enriches the overall curriculum and is an invaluable resource to the school.

In selecting TAs, all course directors consider each applicant’s expertise in the subject matter, prior teaching experience, academic performance, and overall enthusiasm and participation throughout the course. Past performance in the course is a factor in selecting most TAs. Please note that some course directors may decide to interview potential candidates while others may not; the interview process varies from course to course. Some course directors may also require their TAs to participate in additional training; that will be noted in this document. TAs are expected to be and remain in good academic standing. However, all first-time TAs in the M.D. program are required to attend the training hosted by the Office of Medical Education. This training is mandatory and cannot be made up. Students may be asked to re-take this training if they have not taken it within the last 3 academic years.

Medical Scholars Research Program
Since 1980, the Stanford Medical Scholars Research Program has supported medical student research, both locally and off-site. Students carry out research in an academic setting under the direction of faculty members here at the medical school, hospital and clinics, and throughout the University. The fellowships provide funding and units as Medical Scholars Research 370.

M.D. students enrolled at Stanford are eligible.

M.D. students who obtained a Ph.D. prior to matriculation may apply for a fellowship only for research that has focus substantially different from that of their prior doctoral studies. Students who are pursuing a dual degree (e.g., M.D./M.B.A.) are not eligible when they "step out" to pursue the dual degree. Stepping out means that they are no longer paying tuition under the School of Medicine for that period of time, and any Financial Aid support is handled through the other degree program. When you "step back in" to the M.D. program, you resume eligibility for MedScholars.

Master of Science in Medicine
The University’s basic requirements for the M.S. degree are discussed in the "Graduate Degrees (http://exploredegrees.stanford.edu/graduateddegrees/)") section of this bulletin.

Overview
The Master of Science in Medicine (MSM) program is a master degree program that provides Ph.D. candidates exposure to clinical medicine with a view to fostering translational research. The goal of the MSM program is to train a new generation of Ph.D. students about human biology and disease, and thus better prepare them to translate new scientific discoveries into useful medical advances.

The MSM program admits an elite group of highly talented people who have a serious commitment to translational research but are not interested in becoming clinicians. Students admitted to any of the Ph.D. programs offered at Stanford have the opportunity to apply for MSM admission on a competitive basis.

Funding for each student during the first year of the program is completely provided by scholarship support from the MSM program. Beginning in the second year, financial support is provided by each student’s home Ph.D. program.

Degree Requirements
The Department of Medicine requires a minimum of 79 units for the master’s degree to be taken in residence at Stanford. A Master’s Program Proposal (https://stanford.box.com/progpropma/) form should be filled out, signed by the student’s academic adviser, and submitted to the department’s student services manager by the end of the student’s first quarter of study. Final revisions to the master’s program proposal must be submitted no later than one academic quarter prior to the quarter of expected degree conferral.

The program will extend the total training time by one-year beyond the usual length of Ph.D. training. During the program’s first two years MSM participants will take basic biomedical science courses with the School of Medicine’s MD students. This course schedule allows MSM students to concurrently undertake some Ph.D. course requirements and lab rotations. By early in the second program year, students will choose labs for thesis research and elect clinical mentors. The Master of Science in Medicine degree will be conferred upon successful completion of the required coursework and clinical experience.

Course Requirements
The basic medical science courses required by the MSM program are summarized below. This is an intensive sequence, but can also be flexible, depending on the student, and the student’s background, Ph.D. program requirements, and interests.

In some cases, there is overlap between MSM courses and courses required for Ph.D. degree progress. Ph.D. students may be able to substitute courses required by their Ph.D. programs. For example, while most M.D. students take GENE 202, most Ph.D. students prefer to take GENE 205 which is a more advanced course and may satisfy a Ph.D. course requirement.

All MSM courses are taken Pass/Fail with the exception of courses required for the student’s Ph.D. degree which must be taken for a letter grade. A more detailed description of each of the courses below can be found on ExploreCourses (https://explorecourses.stanford.edu/).

<table>
<thead>
<tr>
<th>First Year</th>
<th>Units</th>
<th>Autumn</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Clinical Anatomy (SURG 203)</td>
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<tr>
<td>Molecular Foundations of Medicine (BIOC 205)</td>
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<tr>
<td>Applied Biochemistry (BIOC 200)</td>
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<tr>
<td>Human Genetics (GENE 202)</td>
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<tr>
<td>Embryology (SURG 201)</td>
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<tr>
<td>Histology (INDE 218)</td>
<td>1</td>
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<tr>
<td>Basic Cardiac Life Support for Healthcare Professionals (EMEO 201)</td>
<td>1</td>
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<tr>
<td>Microbiology and Infectious Diseases I (INDE 263)</td>
<td>3</td>
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<tr>
<td>Immunology in Health and Disease (IMMUNOL 205)</td>
<td>4</td>
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<tr>
<td>The Nervous System (NBIO 206)</td>
<td>6</td>
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<tr>
<td>Cells and Signaling in Regenerative Medicine (DBIO 201)</td>
<td>2</td>
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<tr>
<td>Science of Medicine I (INDE 221)</td>
<td>12</td>
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<tr>
<td>Year Total:</td>
<td>24</td>
<td>15</td>
<td>12</td>
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<table>
<thead>
<tr>
<th>Second Year</th>
<th>Units</th>
<th>Autumn</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Science of Medicine II-A (INDE 222A)</td>
<td>7</td>
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<tr>
<td>Science of Medicine II-B (INDE 222B)</td>
<td>7</td>
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<tr>
<td>Microbiology and Infectious Diseases III (INDE 265)</td>
<td>2</td>
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<tr>
<td>Science of Medicine III-A (INDE 223A)</td>
<td>5</td>
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<tr>
<td>Science of Medicine III-B (INDE 223B)</td>
<td>5</td>
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<tr>
<td>Pharmacological Treatment of Disease (INDE 260A)</td>
<td>1</td>
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<tr>
<td>Pharmacological Treatment of Disease (INDE 260B)</td>
<td>1</td>
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</tbody>
</table>
Non-Course Requirements

All students must complete a Clinical Experience prior to conferring the degree. Most often this takes the form of a shadow arrangement, equivalent to 1 week of full-time work (40 hours). This arrangement can be broken up as desired (e.g., four weeks quarter-time or two weeks part-time). Students are encouraged to match the clinical experience to their research interest. Primary responsibility to find these opportunities falls to each student.

Master of Science in Medicine, Subplan in Biomedical Investigation

The University's basic requirements for the M.S. degree are discussed in the "Graduate Degrees (http://exploredegrees.stanford.edu/graduatedegrees/)" section of this bulletin.

Overview

The goal of the Stanford Berg Scholars Program (Master of Science in Medicine with a subplan in Biomedical Investigation) is to address decreasing numbers of physician-scientists by shortening the training period without compromising quality of research, focusing instead on individualized career development of our M.D.-only physician-scientists by placing them in outstanding research groups led by experienced faculty.

Degree Requirements

Berg Scholars must complete all Stanford University requirements for the Master in Science (M.S.) in Medicine in Biomedical Investigation while pursuing their M.D. Students must adhere to the University's residency requirements (http://exploredegrees.stanford.edu/graduatedegrees/#residencytext). Units may not be duplicated or double-counted toward the residency requirement for both degrees. Students must complete the master's degree requirements within three years of the first graduate quarter of the M.S.

Course Requirements

Students are required to complete 280 minimum units (combined M.S. and M.D.) to graduate. These unit are broken down as desired:

- 45 unduplicated units in specific courses for the M.S. degree
  - 33 units in research
  - 12 units of coursework (11 required plus 1 elective)
  - 235 units in pre-clinical and clinical clerkships for the M.D. degree

Only courses 100 level or above can be counted towards the degree. A minimum of 23 units must be at the 200-level or above. All courses towards the 45 unit requirement must receive a passing grade.

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MED 255 The Responsible Conduct of Research</td>
<td>1</td>
</tr>
<tr>
<td>INDE 217 Physician Scientist Hour (take this course three times)</td>
<td>3</td>
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<tr>
<td>INDE 258 PSTP Career Development Symposium</td>
<td>1</td>
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<tr>
<td>SOMGEN 223 Introduction to R for data analysis</td>
<td>3</td>
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<tr>
<td>Choose one of the following</td>
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<tr>
<td>EPI 259 Introduction to Probability and Statistics for Epidemiology</td>
<td>3</td>
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<tr>
<td>EPI 261 Intermediate Biostatistics: Analysis of Discrete Data</td>
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</tbody>
</table>

or an equivalent course for a minimum of 3 units

Research Units

Complete 33 units of research from the SoM department in the student's file of study

<table>
<thead>
<tr>
<th>Elective courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one or more of the following:</td>
<td>1-5</td>
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<tr>
<td>MED 221 Translational Research and Applied Medicine</td>
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<tr>
<td>BIOE 390/ MED 289 Introduction to Bioengineering Research</td>
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<tr>
<td>BIO/BIOC 459 Frontiers in Interdisciplinary Biosciences</td>
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<tr>
<td>BIODS 260A Workshop in Biostatistics</td>
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<td>BIODS 260B Workshop in Biostatistics</td>
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<tr>
<td>BIODS 260C Workshop in Biostatistics</td>
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<tr>
<td>BIOE/BIOMEDIN/GENE 212 Introduction to Biomedical Informatics Research Methodology</td>
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<tr>
<td>BIOMEDIN 233 Intermediate Biostatistics: Analysis of Discrete Data</td>
<td></td>
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<tr>
<td>BIOMEDIN 251/HRP 252/MED 252 Outcomes Analysis</td>
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<tr>
<td>BIOS 274 Introductory Python Programming for Genomics</td>
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<tr>
<td>CHPR 206 Meta-research: Appraising Research Findings, Bias, and Meta-analysis</td>
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<td>CHPR 227 The Science of Community Engagement in Health Research</td>
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<td>COMPED 211 Biostatistics for the Life Sciences</td>
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<td>GENE 211 Genomics</td>
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<tr>
<td>HRP 207 Introduction to Concepts and Methods in Health Services and Policy Research I</td>
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<tr>
<td>HRP 208 Introduction to Concepts and Methods in Health Services and Policy Research II</td>
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<tr>
<td>EPI 216 Analytical and Practical Issues in the Conduct of Clinical and Epidemiologic Research</td>
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<tr>
<td>HRP 218 Methods for Health Care Delivery Innovation, Implementation and Evaluation</td>
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<tr>
<td>EPI 219 Evaluating Technologies for Diagnosis, Prediction and Screening</td>
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<tr>
<td>EPI 223 Introduction to Data Management and Analysis in SAS</td>
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<tr>
<td>EPI 225 Introduction to Epidemiologic and Clinical Research Methods</td>
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<tr>
<td>EPI 226 Intermediate Epidemiologic and Clinical Research Methods</td>
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<tr>
<td>EPI 261 Intermediate Biostatistics: Analysis of Discrete Data</td>
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<tr>
<td>EPI 262 Intermediate Biostatistics: Regression, Prediction, Survival Analysis</td>
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<tr>
<td>EPI 264 Foundations of Statistical and Scientific Inference</td>
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<tr>
<td>EPI 275 Population Health Research</td>
<td></td>
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<tr>
<td>IMMUNOL 210 Immunology Research Seminars for Medical Students</td>
<td></td>
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<tr>
<td>MED 206 Meta-research: Appraising Research Findings, Bias, and Meta-analysis</td>
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<tr>
<td>MED 224 Social Entrepreneurship and Innovation Lab (SE Lab) - Human &amp; Planetary Health</td>
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<tr>
<td>NSUR 249 Experimental Immersion in Neuroscience</td>
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<td>RADO 203SI</td>
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</table>
Non-Course Requirements

Additionally, students must complete the following non-course requirements in order to confer their degree.

Research Proposal

Students must submit a written research proposal for committee review.

Research Proposal Presentation

Students must orally present their proposed research to their research committee for approval.

Thesis Defense

Students must defend their thesis with an oral presentation and closed door questioning from their research committee.

Thesis

Students must publish their thesis in order to confer their M.S. degree.

Doctor of Medicine (M.D.)

Candidates for the degree of Doctor of Medicine (M.D.) must satisfactorily complete the required curriculum in medicine. The requirements for the M.D. degree are detailed below and in the M.D. Handbook.

Overview

The Discovery Curriculum enables students to complete their M.D. program at a more individualized pace, introducing a greater diversity of learning pathways available to students. Depending on their unique goals and pursuits at Stanford, students can complete the pre-clerkship curriculum at full pace in two years or at a slower pace in three years. During the first year, all students complete the same courses at the same pace. In Autumn Quarter of the second year, students can complete the remainder of their pre-clerkship curriculum at full pace or apply for the option of splitting the course workload over two years. Students who are approved for the three-year option have substantially more open scholarship and leadership activities. The course requirements, learning objectives, and assessments are the same for two-year and three-year pre-clerkship students. The three-year option is selective with an application process; the majority of students are expected initially to opt for the traditional two-year pre-clerkship option.

Degree Requirements

Satisfactory completion of a minimum total of 238 required academic units as specified in the table Courses and Units for Students Matriculating Academic Year 2020-21.

Requirements & Timeline

The following is a list and timeline of required courses for students who continuously pursue the M.D. without engaging in a dual degree or separate research track.
Quarter 5 (18-26 units)
INDE 205A Practice of Medicine V 3
INDE 205B Practice of Medicine V 3
INDE 223A Science of Medicine III-A 5
INDE 223B Science of Medicine III-B 5
INDE 260A Pharmacological Treatment of Disease 1
INDE 260B Pharmacological Treatment of Disease 1

Elective Coursework 0-8

Quarter 6 (10-26 units)
INDE 206 Practice of Medicine VI 5
INDE 224 Pathophysiology Capstone 4

Elective Coursework 16

Core Clerkships

The following must be taken within the student’s first 12 months of clinical rotations
MED 300A Internal Medicine Core Clerkship 10
SURG 300A Surgery Core Clerkship 10
Two (2) of the following must be completed within the student’s first 12 months (16 periods) of clinical rotations
OBGYN 300A Obstetrics and Gynecology Core Clerkship 10
Peds 300A Pediatrics Core Clerkship 10
MED 313A Ambulatory Medicine Core Clerkship 5
FAMMED 301A Family Medicine Core Clerkship 5
NENS 301A Neurology Core Clerkship 5
PSYC 300A Psychiatry Core Clerkship 5
EMED 301A Emergency Medicine Core Clerkship 5
Choose one (1) of the following
ANES 306A Critical Care Core Clerkship 5
ANES 306P Critical Care Core Clerkship 5

Selective/Elective Clerkships

Selective I: Fundamentals of Clinical Care
Complete 3 weeks of clerkship listed under this category
ANES 304A Chronic Pain Management Clerkship 3-6
DERM 300A Dermatology Clerkship 6
EMED 313A Emergency Medicine Clerkship 6
EMED 313D Emergency Medicine Clerkship 6
FAMMED 310A Continuity of Care Clerkship 1-6
FAMMED 345E Family Practice Office Clerkship 3-6
MED 303A Cardiology Clerkship-Inpatient/Outpatient Consult 6
MED 303B Cardiology Clerkship 6
MED 303C Cardiology Clerkship 6
MED 306A Endocrinology and Metabolism Clerkship 3-6
MED 322A Outpatient Medical Oncology Clerkship 6
MED 323A Trans-Disciplinary Breast Oncology Clerkship 6
MED 342A Geriatric Medicine Clerkship 6
MED 343B Palliative Care Clerkship 6
OPHT 300A Ophthalmology Clerkship 6
OPHT 300E Ophthalmology Clerkship 3-6
ORTHO 303C Clinical Clerkship in Rehabilitation Medicine 6
ORTHO 304A Physical Medicine and Rehabilitation Clerkship 3-6
ORTHO 306A Orthopedics Clerkship 6
OTOHNS 307A Otolaryngology/Head and Neck Surgery Clerkship 3-6
PEDS 315A Adolescent Medicine 3-6
PEDS 340D Child Health Clerkship 3-6
PSYC 308E Trauma Psychiatry 6
PSYC 328B Addiction Treatment Services 6
RAD 301A Diagnostic Radiology and Nuclear Medicine Clerkship 6
RADO 300A Radiation Oncology Clerkship 6
UROL 308A Urology Clerkship 6
UROL 308B Urology Clerkship 6
UROL 308C Urology Clerkship 3-6

Selective II: Subinternship
Complete 3 weeks of clerkship listed under this category
CTS 300A Cardiothoracic Surgery Clerkship 6
FAMMED 364A Subinternship in Family Medicine 6
MED 304A Cardiovascular Medicine Clerkship - Inpatients 6
MED 311D Advanced Medicine Clerkship 6
MED 312C Advanced Medicine Clerkship 6
MED 314A Advanced Medicine Clerkship 6
MED 321A Inpatient Medical Oncology Clerkship 6
MED 339B Advanced Medicine Clerkship 6
NENS 307A Advanced Clinical Elective in Child Neurology 6
NENS 308A Advanced Clinical Elective in Adult Neurology 6
NSUR 318A Subinternship in Neurosurgery 6
OBGYN 304A Inpatient Gynecology Clerkship 3-6
OBGYN 307A Maternal-Fetal Medicine Clerkship 3-5
OBGYN 308A Gynecologic Oncology Clerkship 5
ORTHO 318A Subinternship in Orthopedic Surgery 6
OTOHNS 336A Subinternship in Otolaryngology/Head and Neck Surgery 6
Peds 313A Neonatal Intensive Care Subinternship 6
Peds 314A Pediatric Intensive Care Clerkship 6
Peds 335A Pediatric Hematology and Oncology Subinternship 6
Peds 336E Subinternship in Community Hospital Pediatrics 3-6
Peds 338A Subinternship in Inpatient Pediatrics 6
PSYC 358A Subinternship in Inpatient Psychiatry 6
PSYC 362B Subinternship in Inpatient Psychiatry 6
Surg 311C Clerkship at the Burn Center 6
Surg 316A Pediatric Surgery Clerkship 6
Surg 333A Multi-Organ Transplantation Clerkship 5
Surg 334A Advanced Vascular Surgery Clerkship 6
Surg 338A Advanced Surgery Clerkship 6
Surg 339A Plastic Surgery Subinternship 6
Urol 338A Advanced Urology Clerkship 6
Urol 338C Advanced Urology Clerkship 6

Elective Clerkship
Students are required to complete 5-6 electives (of any 3**-series clerkships) to reach the minimum of 64 weeks of clerkship training 

Additional Course Requirements
INDE 297 Reflection and Contextual Medicine (students should enroll in INDE 297 in the last quarter of enrollment prior to graduation) 4
MED 295 Advanced Cardiac Life Support 2
The unit requirements for the Scholarly Concentration can also be achieved by completion of a graduate degree at Stanford alongside the M.D.

In addition, to the unit requirement, students must also complete two (2) non-course requirements (including those pursuing the additional graduate degree option):

**Written Report**
Students must submit a written report of their scholarly work by June 1 of their graduating year.

**Presentation**
Students must present their research and scholarly work by June 1 of their graduating year.

**Medical Scientist Training Program**
The Medical Scientist Training Program (MSTP) M.D.-Ph.D. program provides a select group of medical students with an opportunity to pursue a training program designed to equip them for careers in academic investigative medicine. Individualization of the curricular and research programs of each trainee is the hallmark of the Program.

**Admission Requirements**
Stanford’s MSTP is interested in identifying students with significant undergraduate research experience that would predict successful completion of a Ph.D. program. In addition, successful candidates must meet the standards expected of the very best M.D. candidates. The Stanford Medical Scientist Training Program admissions process utilizes the same application, process, and all policies as the M.D.-only application. For information regarding the Stanford School of Medicine’s M.D. Admissions process, policies and eligibility, visit the School of Medicine’s How to Apply (http://med.stanford.edu/md-admissions/how-to-apply.html) website. For specific questions regarding the application process, please contact Stanford’s M.D. Admissions directly at mdadmissions@stanford.edu.

**Program Requirements**
Training for a combined M.D.-Ph.D. includes the same content encountered by students who pursue each degree separately, but the total time of training should be less than the sum of the time normally taken for each degree. To this end, students must plan their training carefully and commit to a rigorous and intensive period of study. The flexible curriculum at the Stanford Medical School allows each student to satisfy the requirements for the M.D. degree and to pursue an independent research program.

For more information about the program structure, review the MSTP program website (http://med.stanford.edu/mstp/structure.html).

**M.D. Degree Requirements**

**COVID-19 USMLE Exam Policies**

**Step 1**
Per the MD Handbook, Section 3.22: *Students must take Step 1 of the USMLE within 12 months of the start of their first clinical clerkship. However, due to testing center closures and postponed exams, the deadline date has been extended. For all students who began clerkships prior to March 31, 2020, the deadline to take Step 1 is now March 31, 2021*. For students beginning clerkships after March 31, 2020 the original deadline of 12 months still applies. Please reference the full policy (http://med.stanford.edu/md-mdhandbook/section-3-md-requirements-procedures/section-3-22-united-states-medical-licensing-examinations-requirements.html) for more information. Students are encouraged discuss Step 1 plans with their Advising Deans.

**Step 2 CS (Clinical Skills)**
Per the MD Handbook, Section 3.22: *Students must take the USMLE Step 2 CS (Clinical Skills) examination prior to graduation. A passing score is not required for graduation but is required to sit for Step 3; passing Step 3 is required for licensure in California and virtually every other...*
state. However, as of May 26, 2020, the USMLE has suspended Step 2 CS test administrations for the next 12-18 months. Therefore, the requirement to take Step 2 CS will be waived for students graduating in June 2021 (or before). Please reference the full policy (http://med.stanford.edu/md/mdhandbook/section-3-md-requirements-procedures/section-3-22-united-states-medical-licensing-examinations-requirements.html) for more information.