Admissions

Students interested in the study of medicine at the Warren Alpert Medical School of Brown University may apply through a variety of admission routes designed to create a highly qualified and diverse medical student body.

The majority of the 120 matriculants in the first-year class apply through the American College Application Service (AMCAS). Approximately (40%) of the first-year class enroll from Brown’s eight-year combined Bachelor’s-medical degree Program in Liberal Medical Education. These students are joined by students entering through special programs at institutions with which the medical school has formed linkages (postbaccalaureate and early identification). These admission routes are described below.

AMCAS Admission

Qualified students or graduates of accredited colleges or universities in the United States or Canada may apply to Alpert Medical School (AMS) through the AMCAS route. Individuals must first complete and submit the electronic AMCAS application, found on the website of the American Association of Medical Colleges (https://www.aamc.org), and indicate that they wish to apply to the Warren Alpert Medical School of Brown University. Applicants must also complete a web-based secondary application (forwarded by AMS Office of Admissions) and submit an application fee to be considered an eligible candidate for admission.

The AMCAS applicant pool for the most recent entering class (MD 2016) was competitive, with over 3300 applicants vying for 57 seats (of 120). The applicant pool was impressive in geographic scope and size, including residents of 49 states, the District of Columbia, the Commonwealth of Puerto Rico, and a number of foreign countries (predominantly Canada, China, and South Korea).

Additional information and related admission requirements may be found at http://www.brown.edu/academics/medical/admission (http://www.brown.edu/academics/medical/admission/). The Office of Admissions may be contacted by email (MedSchool_Admissions@brown.edu) or telephone (401) 863-2149. Letters and other correspondence should be mailed to the Office of Admissions, Box G-M, Brown University, Providence, RI 02912-9706.

Program in Liberal Medical Education (PLME)

The Program in Liberal Medical Education is an eight-year continuum of liberal arts and medical education leading to both the bachelor’s and M.D. degrees. The PLME is open to high school graduates who have applied to liberal arts and medical education leading to both the bachelor’s and M.D. degrees. The Program in Liberal Medical Education (PLME) may be contacted by email (MedSchool_Admissions@brown.edu) or telephone (401) 863-2149. Letters and other correspondence should be mailed to the Office of Admissions, Box G-M, Brown University, Providence, RI 02912-9706.

Postbaccalaureate Linkage Programs

The Postbaccalaureate (PB) Linkages are cooperative ventures between Alpert Medical School and the Premedical PB Programs at Bryn Mawr College, Columbia University, Johns Hopkins University, and Goucher College. Postbaccalaureate students enrolled in these programs may be offered admission to the medical school during the spring semester of their first year of study, thus allowing them to enter the medical school in the next class.

Selection occurs by a nomination process in which the premedical advisor selects candidates meeting established eligibility criteria (e.g., age, postbac grade point average). The number of PB students in each medical school class depends upon the number of places available as well as the caliber of the applicant pool. PB students nominated for admission must apply to AMCAS and complete an AMS secondary application. The MCAT is not required for admission. Timelines for this process are distributed to Program Directors on an yearly basis. Completed applications are reviewed by a subcommittee of the Admissions Committee, which selects nominees for interviews. The interviews follow the same protocol as that for AMS applicants and the same evaluation form is used.

The Early Identification Program (EIP)

The Early Identification Program (EIP) provides selected students at cooperating institutions with a place at Alpert Medical School upon completion of academic premedical preparation. This route provides opportunities for a medical career to two groups:

- Rhode Island residents enrolled at Providence College, Rhode Island College, and the University of Rhode Island; and
- Students enrolled at Tougaloo College, a historically black, liberal arts institution in Mississippi.

Eligible students are identified by their premedical advisor in the sophomore year of college, participate in selected PLME activities, and enroll in medical school after receiving the bachelor’s degree. Generally, up to two students may be admitted annually from each school. For more information and application procedures, please contact the premedical advisor at the participating institutions. For more information access the website at http://www.brown.edu/academics/medical/admission/other-routes-of-admission (http://www.brown.edu/academics/medical/admission/other-routes-of-admission/)

Definition of Rhode Island Residency for Medical School Admission

An individual is considered a Rhode Island resident if he or she graduated from a Rhode Island high school and if the individual’s parent(s) have lived in Rhode Island for the previous two calendar years, as documented by federal tax returns. For dependent students, the custodial parent(s) must claim the student as a dependent on his or her federal tax returns for the prior two years. Individuals who are independent (i.e., not living with parents and filing individual federal tax returns for the previous two years) must have at least one parent residing in Rhode Island for the previous two years, as documented by federal tax returns.

Selection Factors

Students admitted to Alpert Medical School must attain competence in the sciences basic to medicine at a sufficient level to provide adequate preparation for medical school. Applicants are expected to demonstrate competence by successfully completing the following premedical course requirements at a college or university in the United States or Canada: one semester of organic chemistry; and two semesters of physics, inorganic chemistry, and social and behavioral sciences. The Medical College Admission Test (MCAT) is required for AMCAS route applicants.

All applicants are selected on the basis of academic achievement, faculty evaluations, evidence of maturity, motivation, leadership, integrity, and compassion. For the PLME, Brown seeks highly qualified and strongly motivated students who wish to pursue an area of academic interest to an advanced level of scholarship within the framework of a liberal premedical education.

In order to be eligible for consideration, candidates must present a minimum cumulative grade point average of 3.00 (on a 4.00 scale) in courses taken as a matriculated student at an undergraduate college. Applicants who have attended graduate school must achieve a cumulative grade point average of 3.00 (on a 4.00 scale) in courses taken in graduate school. Applicants must have completed requirements for the baccalaureate degree before matriculating into the medical school. All applicants must be capable of meeting the competency requirements expected of all graduates. Technological compensation can be made
for some disabilities in certain competency requirements. Candidates accepted for admission who will need special accommodations cannot be admitted unless those supportive services are available, as determined by the Dean of Medicine and Biological Sciences. The processes for assessing whether applicants will be able to meet the competency requirements for the M.D. degree are described in Technical Standards for Medicine, listed below.

In keeping with the mission of Brown University, the office of admissions recognizes the importance of diversity to the success of the medical school. Dimensions of diversity include, but are not limited to: race, ethnicity, religious affiliation, gender identity, sexual orientation, veteran status, age, socioeconomic status and geographic background. Multicultural perspectives enrich educational understanding, improve outreach to the community, enhance trust and communication, and facilitate development of culturally appropriate clinical and research programs.

**Technical Standards for Medicine**

**Process for Assessing Whether Applicants Meet Technical Standards for Medicine:**

1. No inquiry will be made on the application forms concerning disability. Brown’s policies regarding technical abilities and skills necessary to meet the competency requirements are included with the letter of admission, and students are asked at that time to contact the Associate Dean for Medical Education if they have any concerns about their ability to meet these standards.

2. Applicants who are identified as having a disability through volunteered information, supporting credentials, or interviews will have an assessment of their ability to meet competency requirements only after a determination is made of their admissibility to the medical program.

3. Those applicants with disabilities deemed admissible to the Medical School will be requested to have submitted on their behalf appropriate documentation in regard to the disability from a qualified health professional. The health professional will be asked to provide an opinion on the candidate’s ability to meet the competency requirements for the M.D. degree. The applicant may also be requested to respond to that question.

4. The responses will be submitted to a committee appointed by the Dean of Medicine and Biological Sciences. This committee may ask for a review of the supporting documentation by appropriate members of the faculty in regard to the applicant’s meeting the competency requirements. The committee will ascertain what accommodations, if any, the medical program would need to make in order that the applicant might be able to meet the competency requirements, and assess the feasibility of any needed accommodations.

5. The committee will review the information received to determine if the applicant will be able to meet the competency requirements, with reasonable accommodations on the part of the medical program, if necessary.

6. The committee will recommend to the Dean of Medicine and Biological Sciences acceptance of applicants who can meet the competency requirements or recommend nonacceptance if they cannot.

**Process for Assessing Student’s Ability to Continue in the Medical School Should Disability Occur After Matriculation at Brown University:**

1. A student who develops a disability after matriculation at Brown University may be identified to the Medical Student Affairs Office through a variety of sources, e.g., reporting of accident or illness by peers, family, friends, or faculty and subsequent follow-up with health professionals managing the care.

2. If the degree to which the student has become disabled raises questions related to meeting the competency requirements after a review by the Associate Dean for Medical Education, a meeting of an ad hoc committee will be set up to discuss the situation. The student will be asked to meet with the committee members, unless the disability is so severe that the student needs to be represented by another individual. In some cases, it might be more appropriate to have a health professional, not directly involved in the care, serve as a consultant to the committee on the issues surrounding the disability.

3. The ad hoc committee will develop a recommendation as to the student’s ability to successfully pursue a medical education based on his or her ability to meet the competency requirements of the medical program. These educational accommodations will be discussed with the appropriate course directors to be certain that there is agreement on how the student will be managed. If facilities accommodations are recommended, the committee will discuss these with the appropriate individuals to be certain that the needs for the disabled student can be provided. The committee’s recommendations will be discussed with the student or his or her representative in the event that the student cannot attend.

4. When the recommendation is that the disabled student can meet the medical program’s competency requirements, the committee will develop a report on any educational program accommodations that, if made, will still meet the competency requirements.

5. Should the decision of the committee be to recommend to the dean that the student be dropped from enrollment in the medical program, the normal due process appeals mechanism will be in effect, and the Student Affairs Office will work with the individual as appropriate on potential alternative career options. For students in the Program in Liberal Medical Education, the program due to inability to meet competency requirements for medical education does not necessitate the withdrawal of the student from the undergraduate college if that phase of the student’s education has not been completed.

**Advanced Scholarship**

Medical students who wish to earn an advanced degree (M.A., Sc.M., M.P.H., Ph.D.), must meet the requirements of the Graduate School. Numerous academic departments at Brown offer graduate programs. All graduate studies are carried out under the supervision of a faculty member of a graduate program at Brown University and are subject to the specific requirements of that program in addition to the general guidelines given below. Students should discuss their interests and goals with a director of a graduate program in planning any study that might lead to an advanced graduate degree.

**Educational Programs**

**Program in Liberal Medical Education**

The Program in Liberal Medical Education (PLME) offers a unique opportunity to combine undergraduate education and professional studies in medicine into an eight-year program. The PLME is not an accelerated medical program. Rather, it encourages students to take advantage of the breadth of a liberal arts education, to take charge of their education, and to become active learners. At Brown, creative students need not sacrifice the benefits of a rich liberal arts education in order to gain admission to medical school.

The PLME provides great flexibility in curriculum planning. During the early years, students take courses related to their chosen concentration and to obtain a broad liberal education. In addition, students take courses designed to meet the competencies required for admission to Alpert Medical School. This begins with courses in the natural, social and behavioral sciences, and mathematics, which provide a foundation for later medical science and clinical courses.

Students may choose to work toward an A.B. or Sc.B. degree in the sciences, or to fulfill the requirements for an A.B. in the humanities, social sciences or behavioral sciences. Several interdisciplinary concentrations such as Public Policy and International Relations are also available. The expected duration of the program is eight years. The last four years of the program culminate in the M.D. degree.

Brown’s entire faculty is available to PLME students. This access to faculty throughout the University fosters collaborative teaching and research among scholars and students from widely divergent disciplines. Although the program is characterized by the unique breadth
of educational opportunities available to students, it has great strength in the conventional biomedical sciences accompanied by in depth research opportunities as well.

**The Medical Curriculum**

The Alpert Medical School curriculum has been designed and implemented with the intention of creating an integrated, contemporary, compassionate, and flexible program of learning for our students. Our approach to medical education is predicated on the vision that tomorrow’s physician must be a lifelong learner who is scientifically and clinically enlightened, patient and service-centered, and who understands the economic underpinnings of the US health care system. Our goal is to train physicians who will provide informed and compassionate care while at the same time serving as leaders and change agents for the health care system. To achieve the latter goal, we aim to train physicians who will be leaders at all levels.

These educational goals are pursued through a curriculum with the following structure. During Years 1 and 2, students enroll in four sequential semesters of Integrated Medical Sciences (IMS-I through -IV) and Doctoring-I through -IV. The elective Scholarly Concentrations Program is introduced to students during Year 1. Year 3 allows students to explore core disciplines and related specialties through the completion of required clerkships in medicine, surgery, pediatrics, obstetrics & gynecology, psychiatry, and family medicine. The transition from the third year to the fourth year takes place in May, after which time students have the opportunity to develop a program of elective rotations aimed at finalizing a career choice, and obtaining and preparing for a residency in their chosen field.

Alpert Medical School continues to employ a competency-based curriculum that was officially launched in 1996 for the graduating MD Class of 2000. The rationale behind the competency-based curriculum stems from the need to define the outcomes of the educational process: what are the desirable qualities of a medical school graduate, and what constitutes the essential knowledge base that will enable a graduate to make a successful transition to his or her chosen medical field?

All students are expected to gain competency in the Nine Abilities (see below) and knowledge base by graduation. Each course within the core curriculum of the Medical School identifies which abilities and parts of the knowledge base it addresses. Students may also meet the competency requirements through individualized study, group independent study projects (GISPs), or alternative courses that might be arranged as part of collaborative learning opportunities.

**Nine Abilities:**

1. Effective communication
2. Basic clinical skills
3. Using basic science in the practice of medicine
4. Diagnosis, prevention, and treatment
5. Lifelong learning
6. Professionalism
7. Community health promotion and advocacy
8. Moral reasoning and clinical ethics
9. Clinical decision making

**MD/PhD Program**

Students interested in careers in academic medicine may want to consider dual MD/PhD training. Applications are only accepted from current PLME and Alpert Medical School students. Other interested individuals must apply to the MD program (http://brown.edu/academics/medical/admission/). Consideration for PhD training will take place during years 1, 2 or 3 of medical school.

Our approach to dual MD/PhD training offers curriculum flexibility. Students may begin their graduate work after Year 2 or Year 3 of medical school. Components of the requirements for the MD may be incorporated into the graduate years, and graduate work can provide partial fulfillment of the Year 4 requirements for the MD.

PLME students in their undergraduate years and medical students in years 1, 2 or 3 must meet with the Associate Dean for Medical Education to discuss entry into the MD/PhD program. Selection is based on past research accomplishments, a clear commitment to a research career, and academic achievement at Brown. Students without substantial research experience will be advised to garner such experience before making an application to the program. Applications will be considered not only by the Associate Dean but also by representatives of the graduate program(s) of interest to the student.

Learn more about the MD/PhD Program (https://www.brown.edu/academics/medical/education/other-programs/md-phd/) at:

- https://www.brown.edu/academics/medical/education/other-programs/md-phd/

**MD/MPH Program**

Students interested in the MD/MPH program must apply separately to Alpert Medical School and to Brown University’s Graduate School. Regardless of the route of admission to the medical school— PLME, Standard, EIP, Postbaccalaureate, Advanced Standing—all students are eligible to apply for the MPH during the first three years at the Alpert Medical School.

There is no formal path for non-Brown medical students to enroll in the 5-year MD/MPH Program. However, medical students from other schools are welcome to apply to the MPH Program through the standard route and they may request that up to 4 courses from their medical school curriculum count toward the MPH degree.

Learn more about the MD/MPH Program (https://www.brown.edu/academics/public-health/mph/dual-degrees/) at:

- https://www.brown.edu/academics/public-health/mph/dual-degrees
- https://www.brown.edu/academics/public-health/mph/dual-degrees

**Primary Care - Population Medicine Combined MD-ScM Program**

The Primary Care-Population Medicine (PC-PM) program is an innovative, dual-degree curriculum that focuses on preparing students for a career in medicine while providing comprehensive, longitudinal training in population medicine.

The program will prepare medical students for leadership roles in health care on the local, state, or national level in areas ranging from primary care clinical service to research, education, and health policy. This four-year program, the first of its kind in the United States, results in the awarding of both a Doctor of Medicine and a Master of Science in Population Medicine.

Learn more about the Primary Care - Population Medicine Combined MD-ScM Program (https://www.brown.edu/academics/medical/education/other-programs/primary-care-population-medicine/) at:

- https://www.brown.edu/academics/medical/education/other-programs/primary-care-population-medicine/

**SCM in Medical Physics**

Medical Physics is one of the select non-MD specialties recognized by the American Board of Medical Specialties. Medical Physicists contribute to maintaining and improving the quality, safety and cost-effectiveness of healthcare services through patient-oriented activities requiring expert action, and optimized clinical use of medical devices, such as CT and MRI scanners, linear accelerators, and treatment planning systems, including patient risk and protection.

Activities are based on current best evidence or the Medical physicists’ own scientific research when the available evidence is not sufficient. The career path eventually leads to residency training and certification by the American Board of Radiology.

Students will write a publishable thesis and engage in practical experience, both of which are essential to securing a residency. This is also the key metric of success for students and ultimately the program, in addition to students’ academic success beyond residency and board certification. In addition, the program will be distinctive in that students will have a full semester to undertake their research and work closely with faculty.
Learn more about the SCM in Medical Physics Program at: https://www.brown.edu/med-physics-graduate-program/

**Brown Gateways to Medicine, Health Care, and Research - Master of Science in Medical Sciences**

The Gateways Program at the Warren Alpert Medical School of Brown University provides academically promising, motivated students new pathways to careers in the health sciences.

In this one-year, full-time program, you will complete 8.5 required courses culminating in a Master of Science (ScM) in Medical Sciences from Brown University. Courses include all four of the basic science courses and two of the three organ system courses undertaken by first-year medical students at Alpert Medical School. You’ll also complete a unique seminar course series about pressing issues in today’s health care system, such as social determinants of disease, population health, interdisciplinary teamwork, quality improvement, and health care communication. Integrated into this course series will be a longitudinal service learning experience at a community healthcare site and an associated community-based capstone project.

Learn more about the ScM in Medical Sciences program (https://www.brown.edu/academics/medical/education/other-programs/gateways/master-science-medical-sciences/) at: https://www.brown.edu/academics/medical/education/other-programs/gateways/master-science-medical-sciences/)

For additional information regarding Alpert Medical School please visit the website at: http://brown.edu/academics/medical/

### Courses

#### Biology

**BIOL 3001. Clerkship in Medicine.**

Twelve weeks.

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**BIOL 3005. Clerkship in Medicine - LIC.**

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**BIOL 3010. Systemic Pathology.**

First-semester systemic pathology course building on the general principles of disease introduced in general pathology IMS-1. Objectives include learning the classification of systemic disease according to basic pathological mechanisms, describing and explaining the functional and structural changes produced by the most common diseases, and enhancing the ability to diagnose and treat patients. Runs in parallel with pathophysiology BIOL 3500; covers four organ system segments: cardiovascular, renal, and pulmonary and supporting structures.

**BIOL 3015. Individualized Clerkship in Medicine.**

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**BIOL 3020. Nephrology.**

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**BIOL 3025. Longitudinal in Renal Disease.**

No description available.

**BIOL 3030. Clinical Nephrology.**

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**BIOL 3035. Clinical Nephrology.**

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**BIOL 3040. Clinical Dermatology.**

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**BIOL 3045. Advanced Dermatology.**

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**BIOL 3050. Gastroenterology.**

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**BIOL 3060. Gastroenterology.**

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**BIOL 3065. Infectious Disease.**

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**BIOL 3070. Infectious Disease.**

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**BIOL 3073. Infectious Disease - Newport.**

No description available.

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<th>Fall</th>
<th>BIOL3073 S12 10037 Arranged</th>
<th>&quot;To Be Arranged&quot;</th>
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<td>BIOL3073 S14 10038 Arranged</td>
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<td>BIOL3073 S32 20012 Arranged</td>
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BIOL 3075. Infectious Disease.
No description available.
Fall BIOL3075 S14 10041 Arranged 'To Be Arranged'
Fall BIOL3075 S23 10042 Arranged 'To Be Arranged'

BIOL 3080. HIV/AIDS.
No description available.
Fall BIOL3080 S12 10043 Arranged 'To Be Arranged'
Fall BIOL3080 S14 10044 Arranged 'To Be Arranged'
Fall BIOL3080 S22 10045 Arranged 'To Be Arranged'
Fall BIOL3080 S23 10046 Arranged 'To Be Arranged'
Fall BIOL3080 S24 10047 Arranged 'To Be Arranged'
Spr BIOL3080 S31 2013 Arranged 'To Be Arranged'
Spr BIOL3080 S32 2014 Arranged 'To Be Arranged'
Spr BIOL3080 S33 2015 Arranged 'To Be Arranged'
Spr BIOL3080 S44 2016 Arranged 'To Be Arranged'

BIOL 3090. Allergy and Clinical Immunology Seminar.
The pathophysiology, diagnosis, and treatment of allergic and immunological diseases. Particularly addresses the following diseases: asthma, rhinitis, sinusitis, urticaria, anaphylaxis, primary immunodeficiencies, food allergy, allergic reactions to medications, atopic eczema and insect-ting allergy. Molecular, cellular, and genetic components of allergy and other immunologic inflammation guide consideration of the diagnosis, clinical management, and prevention of allergic and other immunological diseases.

BIOL 3100. Cardiology.
No description available.
Fall BIOL3100 S14 10048 Arranged 'To Be Arranged'
Fall BIOL3100 S21 10049 Arranged 'To Be Arranged'
Fall BIOL3100 S22 10050 Arranged 'To Be Arranged'
Fall BIOL3100 S24 10051 Arranged 'To Be Arranged'
Spr BIOL3100 S32 2017 Arranged 'To Be Arranged'
Spr BIOL3100 S34 2018 Arranged 'To Be Arranged'

BIOL 3110. Clinical Adult Cardiology.
No description available.
Fall BIOL3110 S13 10052 Arranged 'To Be Arranged'
Fall BIOL3110 S14 10053 Arranged 'To Be Arranged'
Fall BIOL3110 S22 10054 Arranged 'To Be Arranged'
Fall BIOL3110 S24 10055 Arranged 'To Be Arranged'
Spr BIOL3110 S33 2019 Arranged 'To Be Arranged'
Spr BIOL3110 S34 2020 Arranged 'To Be Arranged'

BIOL 3120. Coronary Care Unit.
No description available.
Fall BIOL3120 S12 10056 Arranged 'To Be Arranged'
Fall BIOL3120 S13 10057 Arranged 'To Be Arranged'
Fall BIOL3120 S14 10058 Arranged 'To Be Arranged'
Fall BIOL3120 S22 10059 Arranged 'To Be Arranged'
Fall BIOL3120 S24 10060 Arranged 'To Be Arranged'
Spr BIOL3120 S22 2021 Arranged 'To Be Arranged'
Spr BIOL3120 S34 2022 Arranged 'To Be Arranged'

BIOL 3130. Community General Cardiology.
No description available.
Fall BIOL3130 S12 10061 Arranged 'To Be Arranged'
Fall BIOL3130 S14 10062 Arranged 'To Be Arranged'
Fall BIOL3130 S22 10063 Arranged 'To Be Arranged'
Fall BIOL3130 S24 10064 Arranged 'To Be Arranged'
Spr BIOL3130 S32 2023 Arranged 'To Be Arranged'

BIOL 3140. Cardiology.
No description available.
Fall BIOL3140 S14 10065 Arranged 'To Be Arranged'
Fall BIOL3140 S22 10066 Arranged 'To Be Arranged'
Fall BIOL3140 S24 10067 Arranged 'To Be Arranged'
Spr BIOL3140 S34 2024 Arranged 'To Be Arranged'

BIOL 3155. Med/Peds Infectious Diseases.
No description available.
Fall BIOL3165 S14 10068 Arranged 'To Be Arranged'
Fall BIOL3165 S24 10069 Arranged 'To Be Arranged'
Spr BIOL3165 S32 20205 Arranged 'To Be Arranged'
Spr BIOL3165 S34 20206 Arranged 'To Be Arranged'

BIOL 3170. Urgent Care.
No description available.
Fall BIOL3170 S12 10070 Arranged 'To Be Arranged'
Fall BIOL3170 S21 10071 Arranged 'To Be Arranged'
Fall BIOL3170 S22 10072 Arranged 'To Be Arranged'
Fall BIOL3170 S24 10073 Arranged 'To Be Arranged'
Spr BIOL3170 S32 20207 Arranged 'To Be Arranged'

BIOL 3180. Hospice and Palliative Medicine.
No description available.
Fall BIOL3180 S12 10074 Arranged 'To Be Arranged'
Fall BIOL3180 S13 10075 Arranged 'To Be Arranged'
Fall BIOL3180 S14 10076 Arranged 'To Be Arranged'
Fall BIOL3180 S22 10077 Arranged 'To Be Arranged'
Fall BIOL3180 S24 10078 Arranged 'To Be Arranged'
Spr BIOL3180 S34 20208 Arranged 'To Be Arranged'

BIOL 3190. Palliative Care - RIH.
No description available.
Fall BIOL3190 S14 10079 Arranged 'To Be Arranged'
Fall BIOL3190 S24 10080 Arranged 'To Be Arranged'
Spr BIOL3190 S34 20209 Arranged 'To Be Arranged'

BIOL 3200. Tropical Medicine in East Africa.
No description available.
Fall BIOL3200 S14 10081 Arranged 'To Be Arranged'
Fall BIOL3200 S15 10082 Arranged 'To Be Arranged'
Fall BIOL3200 S18 10083 Arranged 'To Be Arranged'
Fall BIOL3200 S24 10084 Arranged 'To Be Arranged'
Fall BIOL3200 S25 10085 Arranged 'To Be Arranged'
Fall BIOL3200 S28 10086 Arranged 'To Be Arranged'

BIOL 3205. International Critical Care at Tuebingen.
No description available.

No description available.

BIOL 3210. Hospice and Palliative Medicine.
No description available.

BIOL 3215. Internal Medicine Night Float.
No description available.

BIOL 3220. Endocrinology.
No description available.
Fall BIOL3220 S14 10087 Arranged 'To Be Arranged'
Fall BIOL3220 S22 10088 Arranged 'To Be Arranged'
Fall BIOL3220 S24 10089 Arranged 'To Be Arranged'
Spr BIOL3220 S32 20203 Arranged 'To Be Arranged'
Spr BIOL3220 S34 20203 Arranged 'To Be Arranged'

BIOL 3230. Hematology Oncology - MH.
No description available.
Fall BIOL3230 S12 10090 Arranged 'To Be Arranged'
Fall BIOL3230 S14 10091 Arranged 'To Be Arranged'
Fall BIOL3230 S24 10092 Arranged 'To Be Arranged'
Spr BIOL3230 S32 20032 Arranged 'To Be Arranged'
Spr BIOL3230 S34 20033 Arranged 'To Be Arranged'

BIOL 3240. Clinical Hematology/Oncology.
No description available.
Fall BIOL3240 S14 10093 Arranged 'To Be Arranged'
Fall BIOL3240 S24 10094 Arranged 'To Be Arranged'
BIOL 3260. Hematology Oncology.
No description available.
Fall BIOL3260 S24 10095 Arranged 'To Be Arranged'

BIOL 3270. Hematology.
No description available.
Fall BIOL3270 S12 10096 Arranged 'To Be Arranged'
Fall BIOL3270 S14 10097 Arranged 'To Be Arranged'
Fall BIOL3270 S22 10098 Arranged 'To Be Arranged'
Fall BIOL3270 S24 10099 Arranged 'To Be Arranged'

BIOL 3280. Allergy.
No description available.
Fall BIOL3280 S12 10100 Arranged 'To Be Arranged'
Fall BIOL3280 S14 10101 Arranged 'To Be Arranged'
Fall BIOL3280 S22 10102 Arranged 'To Be Arranged'
Fall BIOL3280 S24 10103 Arranged 'To Be Arranged'
Spr BIOL3280 S32 20034 Arranged 'To Be Arranged'
Spr BIOL3280 S34 20035 Arranged 'To Be Arranged'

BIOL 3290. Pulmonary Diseases.
No description available.
Fall BIOL3290 S12 10104 Arranged 'To Be Arranged'
Fall BIOL3290 S14 10105 Arranged 'To Be Arranged'
Fall BIOL3290 S24 10106 Arranged 'To Be Arranged'
Spr BIOL3290 S32 20036 Arranged 'To Be Arranged'
Spr BIOL3290 S34 20037 Arranged 'To Be Arranged'

BIOL 3300. Pulmonary Diseases.
No description available.
Fall BIOL3300 S12 10107 Arranged 'To Be Arranged'
Fall BIOL3300 S14 10108 Arranged 'To Be Arranged'
Fall BIOL3300 S22 10109 Arranged 'To Be Arranged'
Fall BIOL3300 S24 10110 Arranged 'To Be Arranged'
Spr BIOL3300 S32 20038 Arranged 'To Be Arranged'
Spr BIOL3300 S34 20039 Arranged 'To Be Arranged'

BIOL 3310. Pulmonary Diseases.
No description available.
Fall BIOL3310 S12 10111 Arranged 'To Be Arranged'
Fall BIOL3310 S14 10112 Arranged 'To Be Arranged'
Fall BIOL3310 S22 10113 Arranged 'To Be Arranged'
Fall BIOL3310 S24 10114 Arranged 'To Be Arranged'
Spr BIOL3310 S34 20040 Arranged 'To Be Arranged'

BIOL 3315. Pulmonary - Inpatient - MH.
No description available.

BIOL 3320. Critical Care Consult Service.
No description available.
Fall BIOL3320 S12 10115 Arranged 'To Be Arranged'
Fall BIOL3320 S14 10116 Arranged 'To Be Arranged'
Fall BIOL3320 S22 10117 Arranged 'To Be Arranged'
Fall BIOL3320 S24 10118 Arranged 'To Be Arranged'
Spr BIOL3320 S34 20041 Arranged 'To Be Arranged'

BIOL 3325. Critical Care Elective.
No description available.
Fall BIOL3325 S12 10119 Arranged 'To Be Arranged'
Fall BIOL3325 S22 10120 Arranged 'To Be Arranged'

BIOL 3326. Concussion and Brain Injury Rehabilitation.
No description available.
Fall BIOL3326 S14 10121 Arranged 'To Be Arranged'

BIOL 3330. Subinternship in Medicine.
No description available.
Fall BIOL3330 S10 10122 Arranged 'To Be Arranged'
Fall BIOL3330 S14 10123 Arranged 'To Be Arranged'
Fall BIOL3330 S24 10124 Arranged 'To Be Arranged'
Spr BIOL3330 S34 20042 Arranged 'To Be Arranged'

BIOL 3331. Subinternship in Medicine - MH.
No description available.
Fall BIOL3331 S14 10125 Arranged 'To Be Arranged'
Fall BIOL3331 S24 10126 Arranged 'To Be Arranged'

BIOL 3332. Subinternship in Medicine - MHRI.
No description available.
Fall BIOL3332 S14 10127 Arranged 'To Be Arranged'
Fall BIOL3332 S24 10128 Arranged 'To Be Arranged'

BIOL 3333. Subinternship in Medicine - RIH.
No description available.
Fall BIOL3333 S14 10129 Arranged 'To Be Arranged'
Fall BIOL3333 S24 10130 Arranged 'To Be Arranged'

BIOL 3334. Subinternship in Medicine - VAMC.
No description available.
Fall BIOL3334 S14 10131 Arranged 'To Be Arranged'
Fall BIOL3334 S24 10132 Arranged 'To Be Arranged'

BIOL 3336. Subinternship in Hematology/Oncology.
No description available.
Fall BIOL3336 S14 10133 Arranged 'To Be Arranged'
Fall BIOL3336 S24 10134 Arranged 'To Be Arranged'

BIOL 3337. Subinternship in Medicine - Newport.
No description available.
Fall BIOL3337 S14 10135 Arranged 'To Be Arranged'
Fall BIOL3337 S24 10136 Arranged 'To Be Arranged'

BIOL 3340. Subinternship in Medical Intensive Care (MICU).
No description available.
Fall BIOL3340 S14 10137 Arranged 'To Be Arranged'
Fall BIOL3340 S24 10138 Arranged 'To Be Arranged'
Spr BIOL3340 S32 20043 Arranged 'To Be Arranged'
Spr BIOL3340 S34 20044 Arranged 'To Be Arranged'

BIOL 3350. Subinternship in Critical Care Medicine.
No description available.
Fall BIOL3350 S14 10139 Arranged 'To Be Arranged'
Fall BIOL3350 S24 10140 Arranged 'To Be Arranged'
Spr BIOL3350 S34 20045 Arranged 'To Be Arranged'

No description available.
Fall BIOL3370 S13 10141 Arranged 'To Be Arranged'
Fall BIOL3370 S14 10142 Arranged 'To Be Arranged'
Fall BIOL3370 S24 10143 Arranged 'To Be Arranged'
Spr BIOL3370 S34 20046 Arranged 'To Be Arranged'

BIOL 3390. Psychiatry in Medical Practice.
No description available.
Fall BIOL3390 S12 10144 Arranged 'To Be Arranged'
Fall BIOL3390 S14 10145 Arranged 'To Be Arranged'
Fall BIOL3390 S15 10146 Arranged 'To Be Arranged'
Fall BIOL3390 S22 10147 Arranged 'To Be Arranged'
Fall BIOL3390 S23 10148 Arranged 'To Be Arranged'
Fall BIOL3390 S24 10149 Arranged 'To Be Arranged'
Spr BIOL3390 S34 20047 Arranged 'To Be Arranged'

BIOL 3400. Medical Consultation - OB/Gyn.
No description available.
Fall BIOL3400 S14 10150 Arranged 'To Be Arranged'
Fall BIOL3400 S24 10151 Arranged 'To Be Arranged'
Spr BIOL3400 S34 20048 Arranged 'To Be Arranged'
BIOL 3405. Medical Consult in OB/Gyn and Periop Med.
No description available.
Fall BIOL3405 S12 10152 Arranged "To Be Arranged"
Fall BIOL3405 S14 10153 Arranged "To Be Arranged"
Fall BIOL3405 S22 10154 Arranged "To Be Arranged"
Fall BIOL3405 S23 10155 Arranged "To Be Arranged"
Fall BIOL3405 S24 10156 Arranged "To Be Arranged"
Spr BIOL3405 S34 20049 Arranged "To Be Arranged"
BIOL 3410. Internal Medicine in the Dominican Republic.
No description available.
Fall BIOL3410 S24 10157 Arranged "To Be Arranged"
BIOL 3415. Clinical Medicine in Nicaragua.
No description available.
Fall BIOL3415 S14 10158 Arranged "To Be Arranged"
BIOL 3420. Physical Medicine + Rehabilitation.
No description available.
Fall BIOL3420 S14 10159 Arranged "To Be Arranged"
Fall BIOL3420 S16 10160 Arranged "To Be Arranged"
Fall BIOL3420 S24 10161 Arranged "To Be Arranged"
BIOL 3425. Men's Health: Lifestyle Medicine in Practice.
No description available.
Fall BIOL3425 S24 10162 Arranged "To Be Arranged"
BIOL 3460. College Health Longitudinal.
No description available.
BIOL 3470. Issues Concerning Deaf Patients in Healthcare.
Students will gain understanding of the basics of communication with and among the Deaf, including ASL, lip-reading, current technologies, and the use of interpreters.
No description available.
BIOL 3490. Cardiology.
No description available.
Fall BIOL3490 S14 10163 Arranged "To Be Arranged"
Fall BIOL3490 S22 10164 Arranged "To Be Arranged"
Fall BIOL3490 S23 10165 Arranged "To Be Arranged"
Fall BIOL3490 S24 10166 Arranged "To Be Arranged"
Spr BIOL3490 S34 20050 Arranged "To Be Arranged"
BIOL 3500. Cardiovascular Medicine - Outpatient and Inpatient Practice.
No description available.
Fall BIOL3500 S14 10167 Arranged "To Be Arranged"
Fall BIOL3500 S22 10168 Arranged "To Be Arranged"
Fall BIOL3500 S24 10169 Arranged "To Be Arranged"
Spr BIOL3500 S34 20051 Arranged "To Be Arranged"
BIOL 3505. Medical and Interventional Pain Management.
No description available.
Fall BIOL3505 S12 10170 Arranged "To Be Arranged"
Fall BIOL3505 S14 10171 Arranged "To Be Arranged"
Fall BIOL3505 S22 10172 Arranged "To Be Arranged"
Fall BIOL3505 S24 10173 Arranged "To Be Arranged"
Spr BIOL3505 S32 20052 Arranged "To Be Arranged"
Spr BIOL3505 S33 20053 Arranged "To Be Arranged"
BIOL 3510. Clinical Reasoning and Human Errors in Medicine.
No description available.
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Fall BIOL3510 S24 10175 Arranged "To Be Arranged"
BIOL 3515. Rheumatology Elective.
No description available.
Fall BIOL3515 S14 10176 Arranged "To Be Arranged"
Fall BIOL3515 S22 10177 Arranged "To Be Arranged"
Fall BIOL3515 S24 10178 Arranged "To Be Arranged"
BIOL 3516. Introduction to POCUS.
No description available.
Fall BIOL3516 S11 10179 Arranged "To Be Arranged"
Fall BIOL3516 S12 10180 Arranged "To Be Arranged"
Fall BIOL3516 S21 10181 Arranged "To Be Arranged"
Fall BIOL3516 S22 10182 Arranged "To Be Arranged"
BIOL 3517. Interprofessional Practice: A Nursing Perspective.
No description available.
Fall BIOL3517 S12 10183 Arranged "To Be Arranged"
Fall BIOL3517 S22 10184 Arranged "To Be Arranged"
BIOL 3518. Social Medicine.
No description available.
Fall BIOL3518 S14 10185 Arranged "To Be Arranged"
Fall BIOL3518 S24 10186 Arranged "To Be Arranged"
BIOL 3519. Intro to Lifestyle Medicine.
No description available.
Fall BIOL3519 S12 10187 Arranged "To Be Arranged"
Fall BIOL3519 S22 10188 Arranged "To Be Arranged"
BIOL 3551. Advanced Clinical Mentorship in Renal.
No description available.
Fall BIOL3551 S21 10189 Arranged "To Be Arranged"
BIOL 3552. Advanced Clinical Mentorship in Dermatology.
No description available.
Fall BIOL3552 S11 10190 Arranged "To Be Arranged"
Spr BIOL3552 S31 20054 Arranged "To Be Arranged"
Spr BIOL3552 S41 20055 Arranged "To Be Arranged"
BIOL 3553. Advanced Clinical Mentorship in Cardiology.
No description available.
Fall BIOL3553 S12 10191 Arranged "To Be Arranged"
BIOL 3554. Advanced Clinical Mentorship in Endocrinology.
No description available.
BIOL 3555. Advanced Clinical Mentorship in Med/Peds Primary Care.
No description available.
Fall BIOL3555 S11 10192 Arranged "To Be Arranged"
BIOL 3556. Advanced Clinical Mentorship in Infectious Disease.
No description available.
Fall BIOL3556 S21 10193 Arranged "To Be Arranged"
BIOL 3557. Advanced Clinical Mentorship in Comprehensive HIV Care.
No description available.
Fall BIOL3557 S22 10194 Arranged "To Be Arranged"
BIOL 3558. Advanced Clinical Mentorship in Adult Oncology.
No description available.
Fall BIOL3558 S21 10195 Arranged "To Be Arranged"
BIOL 3559. Advanced Clinical Mentorship in Hematology/Oncology.
No description available.
Fall BIOL3559 S12 10196 Arranged "To Be Arranged"
Fall BIOL3559 S21 10197 Arranged "To Be Arranged"
Spr BIOL3559 S42 20056 Arranged "To Be Arranged"
BIOL 3560. Advanced Clinical Mentorship in Pulmonary Disease.
No description available.
BIOL 3561. Advanced Clinical Mentorship in Rheumatology.
No description available.
BIOL 3562. Advanced Clinical Mentorship in Internal Medicine.
No description available.
Fall BIOL3562 S11 10198 Arranged "To Be Arranged"
Fall BIOL3562 S12 10199 Arranged "To Be Arranged"
Fall BIOL3562 S21 10200 Arranged "To Be Arranged"
Fall BIOL3562 S22 10201 Arranged "To Be Arranged"
Spr BIOL3562 S31 20057 Arranged "To Be Arranged"
Spr BIOL3562 S41 20058 Arranged "To Be Arranged"
BIOL 3563. Advanced Clinical Mentorship in Gastroenterology.
No description available.

BIOL 3564. Advanced Clinical Mentorship in Functional Neurosurgery.
No description available.
Fall BIOL3564 S11 10202 Arranged "To Be Arranged"
Fall BIOL3564 S12 10203 Arranged "To Be Arranged"
Fall BIOL3564 S21 10204 Arranged "To Be Arranged"

No description available.
Fall BIOL3565 S11 10205 Arranged "To Be Arranged"
Fall BIOL3565 S21 10206 Arranged "To Be Arranged"
Fall BIOL3565 S22 10207 Arranged "To Be Arranged"
Spr BIOL3565 S41 20059 Arranged "To Be Arranged"

BIOL 3566. Advanced Clinical Mentorship in Orthopedic Surgery.
No description available.
Fall BIOL3566 S11 10208 Arranged "To Be Arranged"
Fall BIOL3566 S21 10209 Arranged "To Be Arranged"
Spr BIOL3566 S41 20060 Arranged "To Be Arranged"

BIOL 3567. Advanced Clinical Mentorship in Anesthesiology.
No description available.
Fall BIOL3567 S11 10210 Arranged "To Be Arranged"
Fall BIOL3567 S22 10211 Arranged "To Be Arranged"
Spr BIOL3567 S41 20061 Arranged "To Be Arranged"

No description available.
Fall BIOL3568 S11 10212 Arranged "To Be Arranged"
Fall BIOL3568 S12 10213 Arranged "To Be Arranged"
Fall BIOL3568 S21 10214 Arranged "To Be Arranged"
Fall BIOL3568 S22 10215 Arranged "To Be Arranged"
Spr BIOL3568 S31 20062 Arranged "To Be Arranged"
Spr BIOL3568 S41 20063 Arranged "To Be Arranged"

No description available.
Fall BIOL3569 S11 10216 Arranged "To Be Arranged"
Fall BIOL3569 S12 10217 Arranged "To Be Arranged"
Fall BIOL3569 S21 10218 Arranged "To Be Arranged"
Fall BIOL3569 S22 10219 Arranged "To Be Arranged"
Spr BIOL3569 S41 20064 Arranged "To Be Arranged"

BIOL 3570. Advanced Clinical Mentorship in Pediatric Surgery.
No description available.
Fall BIOL3570 S21 10220 Arranged "To Be Arranged"

BIOL 3571. Advanced Clinical Mentorship in Urology.
No description available.
Spr BIOL3571 S31 20066 Arranged "To Be Arranged"

No description available.
Fall BIOL3572 S12 10221 Arranged "To Be Arranged"

BIOL 3573. Advanced Clinical Mentorship in ENT.
No description available.
Fall BIOL3573 S11 10222 Arranged "To Be Arranged"

No description available.

BIOL 3575. Advanced Clinical Mentorship in Pediatric Neurology.
No description available.

No description available.
Fall BIOL3576 S11 10223 Arranged "To Be Arranged"
Fall BIOL3576 S12 10224 Arranged "To Be Arranged"
Fall BIOL3576 S21 10225 Arranged "To Be Arranged"
Fall BIOL3576 S22 10226 Arranged "To Be Arranged"
Spr BIOL3576 S41 20066 Arranged "To Be Arranged"

BIOL 3577. Advanced Clinical Mentorship in OB/Gyn.
No description available.
Fall BIOL3577 S11 10227 Arranged "To Be Arranged"
Fall BIOL3577 S12 10228 Arranged "To Be Arranged"
Fall BIOL3577 S21 10229 Arranged "To Be Arranged"
Fall BIOL3577 S22 10230 Arranged "To Be Arranged"
Spr BIOL3577 S31 20067 Arranged "To Be Arranged"
Spr BIOL3577 S41 20068 Arranged "To Be Arranged"

BIOL 3578. Advanced Clinical Mentorship in Outpatient Psychiatry.
No description available.
Fall BIOL3578 S11 10231 Arranged "To Be Arranged"
Fall BIOL3578 S21 10232 Arranged "To Be Arranged"
Spr BIOL3578 S31 20069 Arranged "To Be Arranged"
Spr BIOL3578 S41 20070 Arranged "To Be Arranged"

No description available.
Fall BIOL3579 S12 10233 Arranged "To Be Arranged"
Fall BIOL3579 S21 10234 Arranged "To Be Arranged"

BIOL 3580. Advanced Clinical Mentorship in Clinical Rehabilitation Medicine.
No description available.

No description available.
Fall BIOL3581 S11 10235 Arranged "To Be Arranged"
Fall BIOL3581 S12 10236 Arranged "To Be Arranged"
Fall BIOL3581 S21 10237 Arranged "To Be Arranged"
Fall BIOL3581 S22 10238 Arranged "To Be Arranged"
Spr BIOL3581 S31 20071 Arranged "To Be Arranged"
Spr BIOL3581 S41 20072 Arranged "To Be Arranged"

No description available.

BIOL 3583. Advanced Clinical Mentorship in Family Medicine.
No description available.
Fall BIOL3583 S11 10239 Arranged "To Be Arranged"
Fall BIOL3583 S12 10240 Arranged "To Be Arranged"
Fall BIOL3583 S21 10241 Arranged "To Be Arranged"
Fall BIOL3583 S22 10242 Arranged "To Be Arranged"
Spr BIOL3583 S31 20073 Arranged "To Be Arranged"

No description available.
Fall BIOL3584 S12 10243 Arranged "To Be Arranged"
Fall BIOL3584 S21 10244 Arranged "To Be Arranged"

BIOL 3585. Advanced Clinical Mentorship in Radiation Oncology.
No description available.

BIOL 3586. Advanced Clinical Mentorship Independent Study.
No description available.

BIOL 3587. Advanced Clinical Mentorship in Primary Care/Behavioral Medicine.
No description available.

No description available.
Fall BIOL3588 S12 10245 Arranged "To Be Arranged"
Fall BIOL3588 S21 10246 Arranged "To Be Arranged"

BIOL 3589. Advanced Clinical Mentorship in Refugee Health.
No description available.
Fall BIOL3589 S21 10247 Arranged "To Be Arranged"

BIOL 3590. Advanced Clinical Mentorship in Radiology.
No description available.
Fall BIOL3590 S11 10248 Arranged "To Be Arranged"
Spr BIOL3590 S41 20074 Arranged "To Be Arranged"
No description available.
Fall BIOL3591 S11 10249 Arranged 'To Be Arranged'

BIOL 3592. ACM in Pathology.
No description available.
Spr BIOL3592 S41 20075 Arranged 'To Be Arranged'

BIOL 3640. Doctoring 1.
No description available.
Fall BIOL3640 S01 10250 Arranged 'To Be Arranged'

BIOL 3641. Integrated Medical Sciences I.
No description available.
Fall BIOL3641 S01 10251 Arranged 'To Be Arranged'

BIOL 3642. IMS 1 - Scientific Foundations of Medicine.
No description available.
Fall BIOL3642 S01 10252 Arranged 'To Be Arranged'

BIOL 3643. IMS-1 Histology.
No description available.
Fall BIOL3643 S01 10253 Arranged 'To Be Arranged'

BIOL 3644. IMS-1 Human Anatomy I.
No description available.
Fall BIOL3644 S01 10254 Arranged 'To Be Arranged'

BIOL 3645. IMS-1 General Pathology.
No description available.
Fall BIOL3645 S01 10255 Arranged 'To Be Arranged'

BIOL 3650. Doctoring 2.
No description available.
Spr BIOL3650 S01 20076 Arranged 'To Be Arranged'

BIOL 3651. Integrated Medical Sciences II - Comprehensive.
No description available.
Spr BIOL3651 S01 20077 Arranged 'To Be Arranged'

BIOL 3652. IMS-2 Brain Sciences.
No description available.
Spr BIOL3652 S01 20078 Arranged 'To Be Arranged'

BIOL 3653. IMS-2 Microbiology/Infectious Diseases.
No description available.
Spr BIOL3653 S01 20079 Arranged 'To Be Arranged'

BIOL 3654. IMS-2 Endocrine Sciences.
No description available.
Fall BIOL3654 S01 10257 Arranged 'To Be Arranged'

BIOL 3655. Human Anatomy II.
No description available.
Spr BIOL3655 S01 20081 Arranged 'To Be Arranged'

BIOL 3656. Health Systems Science.
No description available.
Fall BIOL3656 S01 10258 Arranged 'To Be Arranged'

BIOL 3657. Health Systems and Policy II.
No description available.

BIOL 3660. Doctoring 3.
No description available.
Fall BIOL3660 S01 10259 Arranged 'To Be Arranged'

BIOL 3661. Integrated Medical Sciences III - Comprehensive.
No description available.
Fall BIOL3661 S01 10260 Arranged 'To Be Arranged'

BIOL 3662. IMS-3 Cardiovascular.
No description available.
Fall BIOL3662 S01 10261 Arranged 'To Be Arranged'

BIOL 3663. IMS-3 Pulmonary.
No description available.
Fall BIOL3663 S01 10262 Arranged 'To Be Arranged'

BIOL 3664. IMS-3 Renal.
No description available.
Fall BIOL3664 S01 10263 Arranged 'To Be Arranged'

BIOL 3665. IMS-II Supporting Structures.
No description available.
Spr BIOL3665 S01 10264 Arranged 'To Be Arranged'

BIOL 3666. Integrated Medical Sciences III - Systemic Pathology.
No description available.
Fall BIOL3666 S01 10265 Arranged 'To Be Arranged'

BIOL 3667. Integrated Medical Sciences III - System-Based Pharmacology.
No description available.
Fall BIOL3667 S01 10266 Arranged 'To Be Arranged'

BIOL 3670. Doctoring 4.
No description available.
Spr BIOL3670 S01 20084 Arranged 'To Be Arranged'

BIOL 3671. Integrated Medical Sciences IV - Comprehensive.
No description available.
Spr BIOL3671 S01 20085 Arranged 'To Be Arranged'

BIOL 3672. IMS-4 Hematology.
No description available.
Spr BIOL3672 S01 20086 Arranged 'To Be Arranged'

BIOL 3673. IMS-4 Gastroenterology.
No description available.
Spr BIOL3673 S01 20087 Arranged 'To Be Arranged'

BIOL 3674. IMS-3 Human Reproduction.
No description available.
Fall BIOL3674 S01 10267 Arranged 'To Be Arranged'

BIOL 3675. Integrated Medical Sciences IV - Systemic Pathology.
No description available.
Spr BIOL3675 S01 20088 Arranged 'To Be Arranged'

BIOL 3676. Integrated Medical Sciences IV - System-Based Pharmacology.
No description available.
Spr BIOL3676 S01 20089 Arranged 'To Be Arranged'

BIOL 3691. System-Based Pharmacology.
No description available.

BIOL 3750. Neurology.
No description available.
Fall BIOL3750 S12 10268 Arranged 'To Be Arranged'

No description available.
Fall BIOL3751 S12 10269 Arranged 'To Be Arranged'
### BIOL 3775. Subinternship in Neurocritical Care.
No description available.
- Fall: BIOL3775 S14 10277 'To Be Arranged'
- Fall: BIOL3775 S24 10278 'To Be Arranged'
- Spr: BIOL3775 S34 20093 'To Be Arranged'

### BIOL 3776. Elective in Neurocritical Care.
No description available.
- Fall: BIOL3776 S12 10279 'To Be Arranged'
- Fall: BIOL3776 S22 10280 'To Be Arranged'
- Spr: BIOL3776 S32 20094 'To Be Arranged'

### BIOL 3778. Comprehensive Elective in Neurology.
No description available.
- Fall: BIOL3780 S14 10281 'To Be Arranged'
- Fall: BIOL3780 S24 10282 'To Be Arranged'

### BIOL 3780. Comprehensive Elective in Neurology.
No description available.
- Fall: BIOL3780 S14 10283 'To Be Arranged'
- Fall: BIOL3780 S24 10284 'To Be Arranged'

### BIOL 3790. Aging and Dementia.
No description available.
- Fall: BIOL3790 S12 10285 'To Be Arranged'
- Fall: BIOL3790 S22 10286 'To Be Arranged'
- Fall: BIOL3790 S24 10287 'To Be Arranged'
- Spr: BIOL3790 S32 20095 'To Be Arranged'
- Spr: BIOL3790 S34 20096 'To Be Arranged'

### BIOL 3795. Elective Clerkship in Neurology.
No description available.
- Fall: BIOL3795 S14 10288 'To Be Arranged'
- Fall: BIOL3795 S24 10289 'To Be Arranged'

### BIOL 3800. Neurosurgery.
No description available.
- Fall: BIOL3800 S12 10290 'To Be Arranged'
- Fall: BIOL3800 S13 10291 'To Be Arranged'
- Fall: BIOL3800 S14 10292 'To Be Arranged'
- Fall: BIOL3800 S22 10293 'To Be Arranged'
- Fall: BIOL3800 S24 10294 'To Be Arranged'
- Spr: BIOL3800 S32 20097 'To Be Arranged'
- Spr: BIOL3800 S34 20098 'To Be Arranged'

### BIOL 3815. Subinternship in Neurosurgery.
No description available.
- Fall: BIOL3815 S14 10295 'To Be Arranged'
- Fall: BIOL3815 S15 10296 'To Be Arranged'
- Fall: BIOL3815 S24 10297 'To Be Arranged'

### BIOL 3820. Neurointerventional Surgery.
No description available.
- Fall: BIOL3820 S12 10298 'To Be Arranged'
- Fall: BIOL3820 S22 19382 'To Be Arranged'
- Fall: BIOL3820 S24 10299 'To Be Arranged'

### BIOL 3890. Culture, Patient, Advocacy and the Community.
This course focuses on the knowledge, skills, and attitudes required for effective patient advocacy with an emphasis on the role of culture in developing advocacy partnerships with patients, families, peers and community service providers. Specifically, it examines the relationships between race, ethnicity, social factors, economic factors and health status indicators. The course will provide opportunities to build self-awareness, to develop greater insight into the social and community contexts of health care and patient advocacy, and to refine physician-patient communication skills.

### BIOL 3900. Core Clerkship in Surgery.
Six weeks.
- Fall: BIOL3900 S01 10300 'To Be Arranged'
- Fall: BIOL3900 S02 10301 'To Be Arranged'
- Spr: BIOL3900 S03 20099 'To Be Arranged'

### BIOL 3905. Individual Clerkship in Surgery.
No description available.
- Fall: BIOL3905 S14 10302 'To Be Arranged'

### BIOL 3910. Introduction to Surgical Oncology.
No description available.
- Fall: BIOL3910 S12 10303 'To Be Arranged'
- Fall: BIOL3910 S13 10304 'To Be Arranged'
- Fall: BIOL3910 S14 10305 'To Be Arranged'
- Fall: BIOL3910 S24 10306 'To Be Arranged'
- Spr: BIOL3910 S32 20100 'To Be Arranged'
- Spr: BIOL3910 S34 20101 'To Be Arranged'

### BIOL 3915. Clerkship in Surgery - LIC.
No description available.
- Fall: BIOL3915 S01 10307 'To Be Arranged'
- Spr: BIOL3915 S04 20102 'To Be Arranged'

### BIOL 3920. Surgery of the Alimentary Tract.
No description available.
- Fall: BIOL3920 S14 10308 'To Be Arranged'
- Fall: BIOL3920 S22 10309 'To Be Arranged'
- Fall: BIOL3920 S24 10310 'To Be Arranged'

### BIOL 3930. Physical Medicine and Rehabilitation.
No description available.
- Fall: BIOL3930 S12 10311 'To Be Arranged'
- Fall: BIOL3930 S14 10312 'To Be Arranged'
- Fall: BIOL3930 S22 10313 'To Be Arranged'
- Fall: BIOL3930 S23 10314 'To Be Arranged'
- Fall: BIOL3930 S24 10315 'To Be Arranged'
- Spr: BIOL3930 S32 20103 'To Be Arranged'

### BIOL 3940. Subinternship in Surgical Intensive Care (SICU).
No description available.
- Fall: BIOL3940 S14 10316 'To Be Arranged'
- Fall: BIOL3940 S24 10317 'To Be Arranged'
- Spr: BIOL3940 S32 20104 'To Be Arranged'
- Spr: BIOL3940 S34 20105 'To Be Arranged'

### BIOL 3950. Outpatient Management of Musculoskeletal Problems.
No description available.
- Fall: BIOL3950 S12 10318 'To Be Arranged'
- Fall: BIOL3950 S14 10319 'To Be Arranged'
- Fall: BIOL3950 S22 10320 'To Be Arranged'
- Fall: BIOL3950 S24 10321 'To Be Arranged'
- Spr: BIOL3950 S32 20106 'To Be Arranged'
- Spr: BIOL3950 S34 20107 'To Be Arranged'

### BIOL 3960. Subinternship in Orthopaedic Surgery.
No description available.
- Fall: BIOL3960 S14 10322 'To Be Arranged'
- Fall: BIOL3960 S24 10323 'To Be Arranged'
- Spr: BIOL3960 S34 20108 'To Be Arranged'

### BIOL 3965. Physical Medicine and Rehabilitation (PM&R): Outpatient.
No description available.
- Fall: BIOL3965 S13 10324 'To Be Arranged'
- Fall: BIOL3965 S14 10325 'To Be Arranged'
- Fall: BIOL3965 S24 10326 'To Be Arranged'

### BIOL 3970. Orthopedic Surgery in the Community.
No description available.
- Fall: BIOL3970 S14 10327 'To Be Arranged'
- Fall: BIOL3970 S24 10328 'To Be Arranged'

### BIOL 3975. Primary Care Orthopedics.
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- Fall: BIOL3975 S12 10329 'To Be Arranged'
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| Fall BIOL3985 S24 10334 | Arranged             | "To Be Arranged" |
| Spr BIOL3985 S34 20110 | Arranged             | "To Be Arranged" |

| BIOL 3980   | Pediatric Orthopedic Surgery                     |              | No description available. |
| Fall BIOL3980 S12 10335 | Arranged             | "To Be Arranged" |
| Fall BIOL3980 S14 10336 | Arranged             | "To Be Arranged" |
| Fall BIOL3980 S22 10337 | Arranged             | "To Be Arranged" |
| Fall BIOL3980 S24 10338 | Arranged             | "To Be Arranged" |
| Spr BIOL3980 S32 20111 | Arranged             | "To Be Arranged" |
| Spr BIOL3980 S34 20113 | Arranged             | "To Be Arranged" |

| BIOL 3985   | Orthopedic Surgery and Sports Medicine in a Community Setting |              | No description available. |
| Fall BIOL3985 S24 10339 | Arranged             | "To Be Arranged" |
| Spr BIOL3985 S34 20113 | Arranged             | "To Be Arranged" |

| BIOL 4000   | Outpatient Orthopedics                           |              | No description available. |
| Fall BIOL4000 S22 10340 | Arranged             | "To Be Arranged" |

| BIOL 4010   | Anesthesiology                                  |              | No description available. |
| Fall BIOL4010 S10 10341 | Arranged             | "To Be Arranged" |
| Fall BIOL4010 S12 10342 | Arranged             | "To Be Arranged" |
| Fall BIOL4010 S14 10343 | Arranged             | "To Be Arranged" |
| Fall BIOL4010 S21 10344 | Arranged             | "To Be Arranged" |
| Fall BIOL4010 S22 10345 | Arranged             | "To Be Arranged" |
| Fall BIOL4010 S24 10346 | Arranged             | "To Be Arranged" |
| Spr BIOL4010 S32 20114 | Arranged             | "To Be Arranged" |
| Spr BIOL4010 S34 20115 | Arranged             | "To Be Arranged" |

| BIOL 4010   | Anesthesiology - MH                             |              | No description available. |
| Fall BIOL4011 S12 10347 | Arranged             | "To Be Arranged" |
| Fall BIOL4011 S14 10348 | Arranged             | "To Be Arranged" |
| Fall BIOL4011 S22 10349 | Arranged             | "To Be Arranged" |
| Fall BIOL4011 S24 10350 | Arranged             | "To Be Arranged" |
| Spr BIOL4011 S32 20116 | Arranged             | "To Be Arranged" |

| BIOL 4012   | Anesthesiology - RH                             |              | No description available. |
| Fall BIOL4012 S12 10351 | Arranged             | "To Be Arranged" |
| Fall BIOL4012 S14 10352 | Arranged             | "To Be Arranged" |
| Fall BIOL4012 S22 10353 | Arranged             | "To Be Arranged" |
| Fall BIOL4012 S24 10354 | Arranged             | "To Be Arranged" |
| Fall BIOL4012 S24 10355 | Arranged             | "To Be Arranged" |
| Spr BIOL4012 S32 20117 | Arranged             | "To Be Arranged" |
| Spr BIOL4012 S34 20118 | Arranged             | "To Be Arranged" |

| BIOL 4013   | Anesthesiology - WIH                            |              | No description available. |
| Fall BIOL4013 S11 10356 | Arranged             | "To Be Arranged" |
| Fall BIOL4013 S12 10357 | Arranged             | "To Be Arranged" |
| Fall BIOL4013 S14 10358 | Arranged             | "To Be Arranged" |
| Fall BIOL4013 S22 10359 | Arranged             | "To Be Arranged" |
| Fall BIOL4013 S24 10360 | Arranged             | "To Be Arranged" |
| Spr BIOL4013 S32 20119 | Arranged             | "To Be Arranged" |
| Spr BIOL4013 S34 20120 | Arranged             | "To Be Arranged" |

| BIOL 4020   | Pediatric Anesthesiology                        |              | No description available. |
| Fall BIOL4020 S12 10361 | Arranged             | "To Be Arranged" |
| Fall BIOL4020 S14 10362 | Arranged             | "To Be Arranged" |
| Fall BIOL4020 S22 10363 | Arranged             | "To Be Arranged" |
| Fall BIOL4020 S23 10364 | Arranged             | "To Be Arranged" |
| Fall BIOL4020 S24 10365 | Arranged             | "To Be Arranged" |
| Spr BIOL4020 S32 20121 | Arranged             | "To Be Arranged" |

| BIOL 4025   | Subinternship in Anesthesiology                 |              | No description available. |
| Fall BIOL4025 S14 10366 | Arranged             | "To Be Arranged" |
| Fall BIOL4025 S24 10367 | Arranged             | "To Be Arranged" |
| Spr BIOL4025 S34 20122 | Arranged             | "To Be Arranged" |

| BIOL 4030   | Ophthalmology                                   |              | No description available. |
| Fall BIOL4030 S11 10368 | Arranged             | "To Be Arranged" |
| Fall BIOL4030 S12 10369 | Arranged             | "To Be Arranged" |
| Fall BIOL4030 S14 10370 | Arranged             | "To Be Arranged" |
| Fall BIOL4030 S22 10371 | Arranged             | "To Be Arranged" |
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| Spr BIOL4030 S34 20124 | Arranged             | "To Be Arranged" |

| BIOL 4040   | Ophthalmology in a Missionary Hospital           |              | No description available. |
| Fall BIOL4040 S12 10368 | Arranged             | "To Be Arranged" |

| BIOL 4070   | Ophthalmology                                   |              | No description available. |
| Fall BIOL4070 S12 10368 | Arranged             | "To Be Arranged" |
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| BIOL 4075   | Pediatric Ophthalmology                          |              | No description available. |
| Fall BIOL4075 S12 10379 | Arranged             | "To Be Arranged" |

| BIOL 4100   | Pediatric Surgery                                |              | No description available. |
| Fall BIOL4100 S12 10380 | Arranged             | "To Be Arranged" |

| BIOL 4110   | Adult Cardiac Surgery                            |              | No description available. |
| Fall BIOL4110 S12 10385 | Arranged             | "To Be Arranged" |
| Fall BIOL4110 S13 10386 | Arranged             | "To Be Arranged" |
| Fall BIOL4110 S14 10387 | Arranged             | "To Be Arranged" |
| Fall BIOL4110 S22 10388 | Arranged             | "To Be Arranged" |
| Fall BIOL4110 S24 10389 | Arranged             | "To Be Arranged" |
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| BIOL 4120   | Cardiothoracic Surgery                           |              | No description available. |
| Fall BIOL4120 S12 10388 | Arranged             | "To Be Arranged" |
| Fall BIOL4120 S14 10389 | Arranged             | "To Be Arranged" |
| Fall BIOL4120 S22 10390 | Arranged             | "To Be Arranged" |
| Fall BIOL4120 S24 10391 | Arranged             | "To Be Arranged" |
| Spr BIOL4120 S32 20129 | Arranged             | "To Be Arranged" |

| BIOL 4130   | Subinternship in Cardiovascular Surgery          |              | No description available. |
BIOL 4140. Endocrine Surgery.
No description available.
Fall BIOL4140 S14 10392 Arranged "To Be Arranged"
Fall BIOL4140 S22 10393 Arranged "To Be Arranged"
Fall BIOL4140 S23 10394 Arranged "To Be Arranged"
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BIOL 4150. Clinical Urology.
No description available.
Fall BIOL4150 S14 10395 Arranged "To Be Arranged"
Fall BIOL4150 S22 10396 Arranged "To Be Arranged"
Fall BIOL4150 S24 10397 Arranged "To Be Arranged"
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BIOL 4155. Subinternship in Urology.
No description available.
Fall BIOL4155 S14 10398 Arranged "To Be Arranged"
Fall BIOL4155 S24 10399 Arranged "To Be Arranged"
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BIOL 4160. Elective in Gynecological Surgery.
No description available.
Fall BIOL4160 S14 10400 Arranged "To Be Arranged"
Fall BIOL4160 S24 10401 Arranged "To Be Arranged"
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BIOL 4170. Plastic Surgery.
No description available.
Fall BIOL4170 S12 10402 Arranged "To Be Arranged"
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BIOL 4180. Subinternship in Surgery.
No description available.
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Fall BIOL4180 S24 10410 Arranged "To Be Arranged"
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BIOL 4181. Hand Surgery for Primary Care.
No description available.
Fall BIOL4181 S14 10411 Arranged "To Be Arranged"
Fall BIOL4181 S24 10412 Arranged "To Be Arranged"

BIOL 4185. Subinternship in Surgical Oncology.
No description available.
Fall BIOL4185 S14 10413 Arranged "To Be Arranged"
Fall BIOL4185 S24 10414 Arranged "To Be Arranged"

No description available.
Fall BIOL4190 S14 10415 Arranged "To Be Arranged"
Fall BIOL4190 S24 10416 Arranged "To Be Arranged"
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BIOL 4195. Subinternship in Colon and Rectal Surgery.
No description available.
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Fall BIOL4195 S24 10418 Arranged "To Be Arranged"

No description available.
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BIOL 4199. Subinternship in Acute Care Surgery.
No description available.
Fall BIOL4199 S14 10422 Arranged "To Be Arranged"
Fall BIOL4199 S24 10423 Arranged "To Be Arranged"
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BIOL 4210. Otorhinolaryngology.
No description available.
Fall BIOL4210 S12 10424 Arranged "To Be Arranged"
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BIOL 4215. Subinternship in Otolaryngology.
No description available.
Fall BIOL4215 S14 10429 Arranged "To Be Arranged"

No description available.

BIOL 4230. Nutrition and Nutritional Support.
No description available.

BIOL 4240. Ambulatory Plastic Surgery.
No description available.

BIOL 4250. Trauma.
No description available.

BIOL 4270. Subinternship in Cardiac Surgery.
No description available.

BIOL 4280. Introduction to Thoracic Surgery.
No description available.

BIOL 4285. 4th Year Surgery Boot Camp.
No description available.

BIOL 4290. Surgical Endoscopy in Managua Nicaragua.
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BIOL 4300. Orofacial Surgery.
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BIOL 4900. Core Clerkship in Obstetrics and Gynecology.
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Spr BIOL4900 S03 20164 Arranged "To Be Arranged"

BIOL 4905. Individualized Clerkship in Ob/Gyn.
No description available.
Fall BIOL4910 S14 10504 Arranged "To Be Arranged"
Fall BIOL4910 S24 10505 Arranged "To Be Arranged"
Spr BIOL4910 S34 20165 Arranged "To Be Arranged"

BIOL 4910. Subinternship in Maternal Fetal Medicine.
No description available.
Fall BIOL4915 S01 10506 Arranged "To Be Arranged"
Fall BIOL4915 S02 10507 Arranged "To Be Arranged"
Spr BIOL4915 S04 20166 Arranged "To Be Arranged"

BIOL 4915. Clerkship in OB/Gyn - LIC.
No description available.
Fall BIOL4920 S14 10508 Arranged "To Be Arranged"
Fall BIOL4920 S24 10509 Arranged "To Be Arranged"

BIOL 4925. Outpatient General Obstetrics.
No description available.
Fall BIOL4925 S12 10510 Arranged "To Be Arranged"
Fall BIOL4925 S14 10511 Arranged "To Be Arranged"
Fall BIOL4925 S24 10512 Arranged "To Be Arranged"

BIOL 4940. Reproductive Endocrinology and Infertility.
No description available.
Fall BIOL4940 S12 10513 Arranged "To Be Arranged"
Fall BIOL4940 S14 10514 Arranged "To Be Arranged"
Fall BIOL4940 S22 10515 Arranged "To Be Arranged"
Fall BIOL4940 S23 10516 Arranged "To Be Arranged"
Fall BIOL4940 S24 10517 Arranged "To Be Arranged"
Spr BIOL4940 S34 20167 Arranged "To Be Arranged"

BIOL 4950. Subinternship in Gynecologic Oncology and Pelvic Surgery.
No description available.
Fall BIOL4950 S12 10518 Arranged "To Be Arranged"
Fall BIOL4950 S14 10519 Arranged "To Be Arranged"
Fall BIOL4950 S22 10520 Arranged "To Be Arranged"
Fall BIOL4950 S24 10521 Arranged "To Be Arranged"
Spr BIOL4950 S34 20168 Arranged "To Be Arranged"

BIOL 4955. Subinternship in Women's Ambulatory Ob-Gyn.
No description available.
Fall BIOL4955 S14 10522 Arranged "To Be Arranged"
Fall BIOL4955 S24 10523 Arranged "To Be Arranged"

BIOL 4960. Women's Reproductive Health Topics.
No description available.
Fall BIOL4960 S14 10524 Arranged "To Be Arranged"
Fall BIOL4960 S24 10525 Arranged "To Be Arranged"

BIOL 4970. Breast Disease.
No description available.
Fall BIOL4970 S13 10526 Arranged "To Be Arranged"
Fall BIOL4970 S14 10527 Arranged "To Be Arranged"
Fall BIOL4970 S22 10528 Arranged "To Be Arranged"
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BIOL 4975. Gynecologic and Breast Pathology.
No description available.
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Fall BIOL4975 S14 10531 Arranged "To Be Arranged"
Fall BIOL4975 S22 10532 Arranged "To Be Arranged"
Fall BIOL4975 S24 10533 Arranged "To Be Arranged"
Spr BIOL4975 S32 20169 Arranged "To Be Arranged"

BIOL 4980. Patients with Women's Cancers.
No description available.
Fall BIOL4980 S14 10534 Arranged "To Be Arranged"
Fall BIOL4980 S22 10535 Arranged "To Be Arranged"
Fall BIOL4980 S24 10536 Arranged "To Be Arranged"
Spr BIOL4980 S34 20170 Arranged "To Be Arranged"

BIOL 4985. Family Planning & Reproductive Health.
No description available.
Fall BIOL4985 S12 10537 Arranged "To Be Arranged"
Fall BIOL4985 S14 10538 Arranged "To Be Arranged"
Fall BIOL4985 S24 10539 Arranged "To Be Arranged"
Spr BIOL4985 S34 20171 Arranged "To Be Arranged"

BIOL 4990. Clinical Cancer Genetics.
No description available.
Fall BIOL4990 S24 10540 Arranged "To Be Arranged"
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BIOL 5000. Core Clerkship in Psychiatry.
Six weeks.
Fall BIOL5100 S01 10541 Arranged "To Be Arranged"
Fall BIOL5100 S02 10542 Arranged "To Be Arranged"
Spr BIOL5100 S03 20173 Arranged "To Be Arranged"

BIOL 5015. Individualized Clerkship in Psychiatry.
No description available.
Fall BIOL5110 S14 10543 Arranged "To Be Arranged"
Fall BIOL5110 S24 10544 Arranged "To Be Arranged"
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BIOL 5130. Addiction Psychiatry.
No description available.
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Fall BIOL5130 S13 10546 Arranged "To Be Arranged"
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Fall BIOL5130 S24 10549 Arranged "To Be Arranged"
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No description available.
Fall BIOL5140 S12 19204 Arranged "To Be Arranged"
Fall BIOL5140 S14 10550 Arranged "To Be Arranged"
Fall BIOL5140 S24 10551 Arranged "To Be Arranged"
Spr BIOL5140 S34 20176 Arranged "To Be Arranged"

BIOL 5150. Neuropsychiatry and Behavioral Neurology.
No description available.
Fall BIOL5150 S14 10552 Arranged "To Be Arranged"
Fall BIOL5150 S22 10553 Arranged "To Be Arranged"
Fall BIOL5150 S24 10554 Arranged "To Be Arranged"
BIOL 5160. Women's Mental Health Elective.
No description available.
Fall BIOL5160 S12 10555 Arranged 'To Be Arranged'
Fall BIOL5160 S14 10556 Arranged 'To Be Arranged'
Fall BIOL5160 S22 10557 Arranged 'To Be Arranged'
Fall BIOL5160 S24 10558 Arranged 'To Be Arranged'
Spr BIOL5160 S34 20177 Arranged 'To Be Arranged'

BIOL 5170. Correctional Psychiatry.
No description available.
Fall BIOL5170 S14 10559 Arranged 'To Be Arranged'
Fall BIOL5170 S24 10560 Arranged 'To Be Arranged'
Spr BIOL5170 S33 20178 Arranged 'To Be Arranged'

No description available.
Fall BIOL5210 S12 10561 Arranged 'To Be Arranged'
Fall BIOL5210 S14 10562 Arranged 'To Be Arranged'
Fall BIOL5210 S22 10563 Arranged 'To Be Arranged'
Fall BIOL5210 S24 10564 Arranged 'To Be Arranged'
Spr BIOL5210 S32 20179 Arranged 'To Be Arranged'
Spr BIOL5210 S34 20180 Arranged 'To Be Arranged'

No description available.
Fall BIOL5220 S14 10565 Arranged 'To Be Arranged'
Fall BIOL5220 S24 10566 Arranged 'To Be Arranged'
Spr BIOL5220 S34 20181 Arranged 'To Be Arranged'

BIOL 5225. Gender & Sexuality.
No description available.
Fall BIOL5225 S14 10567 Arranged 'To Be Arranged'
Fall BIOL5225 S24 10568 Arranged 'To Be Arranged'

No description available.
Fall BIOL5230 S12 10569 Arranged 'To Be Arranged'
Fall BIOL5230 S14 10570 Arranged 'To Be Arranged'
Fall BIOL5230 S22 10571 Arranged 'To Be Arranged'
Fall BIOL5230 S24 10572 Arranged 'To Be Arranged'

BIOL 5240. Healthcare for Homeless Communities.
No description available.
Fall BIOL5240 S21 10573 Arranged 'To Be Arranged'
Spr BIOL5240 S41 20182 Arranged 'To Be Arranged'

BIOL 5270. Psychiatry of Late Life.
No description available.
Fall BIOL5270 S14 10574 Arranged 'To Be Arranged'
Fall BIOL5270 S22 10575 Arranged 'To Be Arranged'
Fall BIOL5270 S24 10576 Arranged 'To Be Arranged'
Spr BIOL5270 S34 20183 Arranged 'To Be Arranged'

BIOL 5275. Addiction Medicine.
No description available.
Fall BIOL5275 S22 10577 Arranged 'To Be Arranged'

BIOL 5300. Clerkship in Psychiatry-Clinical Neuroscience.
Six weeks.
Fall BIOL5300 S01 10578 Arranged 'To Be Arranged'
Fall BIOL5300 S02 10579 Arranged 'To Be Arranged'

BIOL 5315. Clerkship in Psychiatry.
No description available.
Fall BIOL5315 S01 10580 Arranged 'To Be Arranged'
Fall BIOL5315 S02 10581 Arranged 'To Be Arranged'
Spr BIOL5315 S03 20184 Arranged 'To Be Arranged'

BIOL 5320. Clerkship in Psychiatry - LIC.
No description available.
Fall BIOL5320 S01 10582 Arranged 'To Be Arranged'
Spr BIOL5320 S04 20185 Arranged 'To Be Arranged'

BIOL 5325. Clerkship in Neurology.
No description available.
Fall BIOL5325 S01 10583 Arranged 'To Be Arranged'
Fall BIOL5325 S02 10584 Arranged 'To Be Arranged'
Spr BIOL5325 S03 20186 Arranged 'To Be Arranged'

BIOL 5330. Clerkship in Neurology - LIC.
No description available.
Fall BIOL5330 S01 10585 Arranged 'To Be Arranged'
Spr BIOL5330 S04 20187 Arranged 'To Be Arranged'

BIOL 5400. Core Clerkship in Community Health.
Six weeks.
Fall BIOL5400 S01 10586 Arranged 'To Be Arranged'
Fall BIOL5400 S02 10587 Arranged 'To Be Arranged'

BIOL 5460. Physical Medicine and Rehabilitation.
No description available.
Fall BIOL5460 S23 10588 Arranged 'To Be Arranged'
Fall BIOL5460 S24 10589 Arranged 'To Be Arranged'

BIOL 5480. Rural Community Medicine.
No description available.
Fall BIOL5480 S12 10590 Arranged 'To Be Arranged'
Fall BIOL5480 S14 10591 Arranged 'To Be Arranged'
Fall BIOL5480 S22 10592 Arranged 'To Be Arranged'
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BIOL 5490. Geriatrics and Rehabilitation.
No description available.
Fall BIOL5490 S12 10594 Arranged 'To Be Arranged'
Fall BIOL5490 S14 10595 Arranged 'To Be Arranged'
Fall BIOL5490 S24 10596 Arranged 'To Be Arranged'
Spr BIOL5490 S34 20189 Arranged 'To Be Arranged'

BIOL 5510. Introduction to the Basic Science Curriculum in the Medical School.
The preclinical elective is designed for PLME students who will enter the Alpert Medical School. The seminar series provides perspectives on teaching and learning in the Alpert Medical School—with a specific focus on understanding how the basic sciences are addressed in lectures and in the laboratory.

BIOL 5525. Medical French Elective.
No description available.

BIOL 5530. College Student Health.
No description available.

BIOL 5540. Controversies in Health Care Policy.
No description available.

BIOL 5560. Law and Medicine.
No description available.

BIOL 5570. Elective in San Lucas Toliman, Guatemala.
No description available.

BIOL 5580. Frontier Nursing Service, Mary Breckinridge Hospital.
No description available.

BIOL 5590. Mississippi Family Health Center.
No description available.

BIOL 5600. Rural Family Practice.
No description available.
Fall BIOL5600 S12 10597 Arranged 'To Be Arranged'
Fall BIOL5600 S23 10598 Arranged 'To Be Arranged'

No description available.
Fall BIOL5620 S14 10599 Arranged 'To Be Arranged'
Fall BIOL5620 S24 10600 Arranged 'To Be Arranged'
Spr BIOL5620 S32 20190 Arranged 'To Be Arranged'
Spr BIOL5620 S34 20191 Arranged 'To Be Arranged'
BIOL 5630. Emergency Medicine.  
No description available.  
Fall BIOL5630 S12 10601 Arranged  "To Be Arranged"
Fall BIOL5630 S14 10602 Arranged  "To Be Arranged"
Fall BIOL5630 S22 10603 Arranged  "To Be Arranged"
Fall BIOL5630 S32 10604 Arranged  "To Be Arranged"
Spr BIOL5630 S32 20192 Arranged  "To Be Arranged"
Spr BIOL5630 S34 20193 Arranged  "To Be Arranged"

BIOL 5640. Point of Care Ultrasound.  
No description available.  
Fall BIOL5640 S14 10605 Arranged  "To Be Arranged"
Fall BIOL5640 S22 10606 Arranged  "To Be Arranged"
Fall BIOL5640 S24 10607 Arranged  "To Be Arranged"
Spr BIOL5640 S34 20194 Arranged  "To Be Arranged"

No description available.  
Fall BIOL5650 S14 10608 Arranged  "To Be Arranged"
Fall BIOL5650 S22 10609 Arranged  "To Be Arranged"
Fall BIOL5650 S23 10610 Arranged  "To Be Arranged"
Fall BIOL5650 S24 10611 Arranged  "To Be Arranged"
Spr BIOL5650 S34 20195 Arranged  "To Be Arranged"

BIOL 5655. Sex and Gender Based Acute Care Medicine.  
No description available.  
Fall BIOL5655 S12 10612 Arranged  "To Be Arranged"
Fall BIOL5655 S22 10613 Arranged  "To Be Arranged"
Fall BIOL5655 S24 10614 Arranged  "To Be Arranged"
Spr BIOL5655 S32 20196 Arranged  "To Be Arranged"

BIOL 5660. Wilderness and Environmental Medicine.  
No description available.  

No description available.  
Fall BIOL5665 S14 10615 Arranged  "To Be Arranged"
Fall BIOL5665 S24 10616 Arranged  "To Be Arranged"

BIOL 5670. EMS Systems of Care.  
No description available.  
Fall BIOL5670 S24 10617 Arranged  "To Be Arranged"

BIOL 5690. Spirituality and Medicine.  
No description available.  

BIOL 5700. Bridging the Bench and Bedside.  
No description available.  

BIOL 5730. Introduction to Medical Portuguese.  
No description available.  

BIOL 5795. Clerkship in Family Medicine - LIC.  
No description available.  
Fall BIOL5795 S01 10618 Arranged  "To Be Arranged"
Spr BIOL5795 S04 20197 Arranged  "To Be Arranged"

BIOL 5800. Core Clerkship in Family Medicine.  
Six weeks.  
Fall BIOL5800 S01 10619 Arranged  "To Be Arranged"
Fall BIOL5800 S02 10620 Arranged  "To Be Arranged"
Spr BIOL5800 S03 20198 Arranged  "To Be Arranged"

BIOL 5801. Family Medicine Clerkship for MD/PhD students.  
No description available.  
Fall BIOL5801 S11 10621 Arranged  "To Be Arranged"

BIOL 5805. Individualized Clerkship in Family Medicine.  
No description available.  

No description available.  
Fall BIOL5810 S12 10622 Arranged  "To Be Arranged"
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Fall BIOL5810 S24 10627 Arranged  "To Be Arranged"
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Spr BIOL5810 S34 20200 Arranged  "To Be Arranged"

BIOL 5815. Subinternship in Maternal and Child Health.  
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Fall BIOL5815 S14 10628 Arranged  "To Be Arranged"
Fall BIOL5815 S24 10629 Arranged  "To Be Arranged"

BIOL 5820. Elective in Family Medicine.  
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Fall BIOL5820 S14 10631 Arranged  "To Be Arranged"
Fall BIOL5820 S22 10632 Arranged  "To Be Arranged"
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Spr BIOL5820 S32 20201 Arranged  "To Be Arranged"
Spr BIOL5820 S34 20202 Arranged  "To Be Arranged"

BIOL 5830. Free Clinic Preceptorship.  
No description available.  
Fall BIOL5830 S11 10634 Arranged  "To Be Arranged"
Spr BIOL5830 S41 20203 Arranged  "To Be Arranged"

BIOL 5850. Primary Care Sports Medicine.  
No description available.  
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Fall BIOL5850 S14 10636 Arranged  "To Be Arranged"
Fall BIOL5850 S22 10637 Arranged  "To Be Arranged"
Fall BIOL5850 S24 10638 Arranged  "To Be Arranged"
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BIOL 5870. Subinternship in Family Medicine.  
No description available.  
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Fall BIOL5870 S24 10640 Arranged  "To Be Arranged"

BIOL 5880. Clinical Skills Clerkship Teaching Academy.  
No description available.  

BIOL 5885. Clinical Skills Clerkship.  
No description available.  
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BIOL 6300. Nuclear Medicine Preceptorship.
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BIOL 6310. Subinternship in Interventional Radiology.
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Fall BIOL6310 S24 10702 Arranged "To Be Arranged"

BIOL 6320. Vascular and Interventional Radiology.
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Fall BIOL6320 S13 10704 Arranged "To Be Arranged"
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BIOL 6330. Body Imaging and Intervention.
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Fall BIOL6330 S22 10710 Arranged "To Be Arranged"
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BIOL 6335. Cardiothoracic Imaging and Intervention.
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Fall BIOL6335 S14 10713 Arranged "To Be Arranged"
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BIOL 6340. Community Radiology - Newport.
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Fall BIOL6340 S22 10716 Arranged "To Be Arranged"
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BIOL 6350. Interventional Oncology.
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BIOL 6360. Neuroradiology.
No description available.
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Fall BIOL6360 S14 10721 Arranged "To Be Arranged"
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Spr BIOL6360 S34 20244 Arranged "To Be Arranged"

BIOL 6380. Pediatric Radiology.
No description available.
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Fall BIOL6380 S14 10721 Arranged "To Be Arranged"
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BIOL 6390. Intro to Women's Diagnostic Imaging.
No description available.
Fall BIOL6390 S12 10729 Arranged "To Be Arranged"
Fall BIOL6390 S22 10730 Arranged "To Be Arranged"
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BIOL 6400. Radiation Oncology.
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BIOL 6410. Radiation Oncology Exploratory Elective.
No description available.
Fall BIOL6410 S12 10735 Arranged "To Be Arranged"
Fall BIOL6410 S22 10736 Arranged "To Be Arranged"
Spr BIOL6410 S32 20249 Arranged "To Be Arranged"

BIOL 6500. Cancer Action and Reflection (CARE).
No description available.

BIOL 6501. Medical Chinese Elective.
Students will attain a working knowledge of Chinese relevant to medical practice in order to better communicate with and serve Chinese-speaking patients. Open to students who a proficient in the Mandarin dialect of Chinese.

BIOL 6502. Intermediate Medical Spanish.
The course is designed for students to gain beginning-level competence in Medical Spanish that will enable them to communicate more effectively with Spanish-speaking patients and their families. Specifically, the students will develop critical Spanish lexicon and language skills for conducting the medical interview. Perquisite: Background in Spanish.
Grading: S/NC

BIOL 6503. Introductions to Physical Medicine and Rehabilitation.
No description available.

BIOL 6504. Health Care in America.
No description available.

BIOL 6505. Introduction to Multidisciplinary Fetal Medicine.
An 8-session elective seminar for 2nd year medical school students. Emphasis is placed on the multidisciplinary approach to medical problems. The course concentrates on those conditions for which fetal and/or neonatal intervention may be indicated, from gene therapy to fetal surgical intervention.

BIOL 6506. Medical Malpractice.
No description available.

BIOL 6507. Introduction to Forensic Pathology.
No description available.
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<th>Course Title</th>
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<td>Physical Diagnosis Rounds</td>
<td>The goal of the course is to provide medical students with the knowledge needed to effectively and competently work with a growingly diverse patient (and colleague) population. Contemporary medical school curricula are lacking in the instruction and discussion of patients of all genders and sexualities. This elective will address this need. The course will consist of eight 2-hour sessions, with guest speakers lecturing for the first hour and small group discussion happening for the second hour. Students are required to keep a journal of their experiences as their final assignment for the class. The class will be graded S/NC. The topics range from LGBTQ Teenagers to Institutionalized Homophobia to Hormone Therapy, led by experts in each field.</td>
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<td>Introduction to Surgical Subspecialties</td>
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<td>BIOL 6510</td>
<td>Advanced Human Anatomy: A Deep Dive into the Hand, Ear, and Spine</td>
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<td>Introduction to Integrative and Lifestyle Medicine</td>
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<td>BIOL 6514</td>
<td>Introduction to Pediatrics</td>
<td>This elective seminar for 1st and 2nd year medical school and PLME students will introduce them to the world of complementary and alternative forms of healing (CAM) and place it into a framework of an Integrative medicine.</td>
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<td>Psychedelic Medicine</td>
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<td>Race, Health Disparities, and Biomedical Interpretations</td>
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<td>Therapeutic School: Psychiatric Consultation and Treatment</td>
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<td>Leadership in the Health Professions</td>
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<td>The Healer's Art</td>
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<td>Creative Arts with Seniors</td>
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<td>Getting Under Your Skin</td>
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<td>Homelessness, Health Justice, and Street Outreach</td>
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<td>Practical Skills in EMS and Disaster Response</td>
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<td>Introduction to Medical Arabic</td>
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<td>Medical Students Outreach to Mothers to Be (MOMS)</td>
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<td>Wilderness Medicine Preclinical Elective</td>
<td>The Wilderness Medicine elective is designed to instill the basic survival skills training necessary for environments outside the hospital, both urban and wild. It combines didactic lectures on such topics as toxicology and travel medicine with field skills sessions &amp; workshops (e.g. suturing, splinting). These sessions also include mock medical scenarios, such as near drownings, for the students to handle. It includes off-campus consultation with experts to review their medical emergency procedures. A final project consisting of writing about a popular wilderness myth and its voracity is required.</td>
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<td>Physician Leadership: Essential Skills for Tomorrow's Health Care Leaders</td>
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<td>BIOL 6669</td>
<td>The Virtuous Physician</td>
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<td>BIOL 6670</td>
<td>Narrative Medicine</td>
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<td>BIOL 6671</td>
<td>Essentials of Procedural Skills</td>
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<td>BIOL 6672</td>
<td>Introduction to Trauma</td>
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<td>Introduction to Diagnostic Imaging</td>
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<td>BIOL 6682</td>
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<td>Advocacy in Action - Becoming a Citizen Physician</td>
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<td>BIOL 6684</td>
<td>Medicine in Film &amp; TV</td>
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<td>BIOL 6685</td>
<td>BE REAL About Health</td>
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<td>BIOL 6686</td>
<td>Trauma-Informed Patient Care</td>
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<td>Intro to Orthopaedic Surgery</td>
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<td>BIOL 6692</td>
<td>Sexual Assault and Domestic Violence Training</td>
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<td>Exploring the Biopsychosocial Model</td>
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The Warren Alpert Medical School of Brown University
**Medical Education**

**MED 2010. Health Systems Science I.**
This course will explore how multiple social determinants influence individual and population health; the laws and policies that shape the social environments in which patients live; and the role of physicians in advocating for systems and policy changes that will reduce health disparities and improve population health outcomes.

Fall MED2010  S01 19360 Arranged 'To Be Arranged'

**MED 2030. Research Methods in Population Medicine.**
The thesis requirement for the Master of Science degree in Population Medicine is an integral component of the Primary Care-Population Medicine program at Brown University. This course will help students develop and demonstrate the necessary research skills to formulate a population medicine research question and then design, conduct and write a manuscript presenting a research study that will satisfy the thesis requirements. The course itself has three parts:

An introductory primary on biostatistics A research methodology seminar series A journal club in which the biostatistics and research methodology will be integrated in the analysis and critique of studies related to population medicine

Fall MED2030  S01 19302 Arranged 'To Be Arranged'

**MED 2040. Health Systems Science II.**
This course will offer an overview of the critical issues in U.S. healthcare and public health policy. It will also provide future leaders in population medicine with a foundation for analyzing healthcare reform and public health efforts and for identifying the role of physicians in driving and shaping future policy reforms to improve the healthcare system and population health.

Fall MED2040  S01 19303 Arranged 'To Be Arranged'

**MED 2045. Quantitative Methods.**
In this course, students will be introduced to fundamental concepts in clinical epidemiology and basic statistics, as they relate to population and clinical research. This course is intended to teach students both the basic knowledge required to develop and interpret clinical studies as well as the skills in order to conduct basic statistical analyses.

**MED 2046. Leadership in Health Care**
This courses emphasizes practical application of teamwork and leadership skills across multiple settings. Leadership in Health Care is a master’s level course for second year medical students enrolled in the Primary Care-Population Medicine (PC-PM) program. Through interactive classroom sessions, field work in health care advocacy, and a team-based “leadership action project”, students will develop foundational leadership skills. The first formal leadership course at Alpert Medical School, Leadership in Health Care will contribute to the PC-PM program’s ultimate goal of preparing physician leaders who will improve the quality of health care and wellness of the population.

**MED 2050. HSS III: Pop & Clinical Med I.**
This is the first semester of Population and Clinical Medicine, a two-semester course focused on the integration of population medicine and clinical practice. In this course, students will focus on topics integral to clinical medicine, but expand beyond the patient into the population and beyond. Given the importance of population health interventions for impacting the health of vulnerable and underserved patients, the course will focus on issues affecting these populations.

Fall MED2050  S01 19573 Arranged 'To Be Arranged'

**MED 2060. HSS III: Pop & Clinical Med II.**
This is the second semester of Population and Clinical Medicine, a two-semester course focused on the integration of population medicine and clinical practice. In this course, students will focus on topics integral to clinical medicine, but expand beyond the patient into the population and beyond. Given the importance of population health interventions for impacting the health of vulnerable and underserved patients, the course will focus on issues affecting these populations.

Spr MED2060  S01 27423 Arranged 'To Be Arranged'

**MED 2070. Health Systems Science IV.**
This course is designed to further explore the themes of the Primary Care-Population Medicine Program and prepare students for the next steps in their professional careers. The course is designed to be a capstone and employs integrated, developmental, educational spiral structures, providing knowledge and skills at the right time in the right format, and building on the first three years of the program. Course threads include Health Systems Science Advanced Content, Skill Building, Preparation for Next Career Stages, and Master’s Thesis Workshop.

**MED 2110. Introduction to Medical Sciences and Patient Care.**
This is the third of a 3 course sequence for Master of Medical Sciences students. This course introduces students to the wide variety of topics explored in the Master’s of Medical Sciences program, with a focus on patient care aspects. The course combines seminar instruction with field work/immersion at community healthcare sites. Topics covered include: biopsychosocial model of healthcare; intersection between science, social science and humanities in healthcare; introduction to community health centers; professionalism in healthcare; basic healthcare communication skills; quality improvement skills; and strategies for mastery of basic science knowledge. Students will be assessed using multiple methods including: seminar participation, reflective essays/field notes, attendance at field-work sites, & assessment from community mentors.

Fall MED2110  S01 19236 Arranged (G. Anandarajah)

**MED 2120. Patient Care in Complex Systems I.**
This is the second of a three course series for Master of Medical Sciences students. This course introduces students to the variety of complex factors affecting health, imparting both theoretical knowledge and practical skills. Teaching methods: interactive seminars and experiential learning at community healthcare sites with members of multidisciplinary teams. Topics covered: healthcare systems, social determinants of health, roles of interdisciplinary healthcare team members, quality improvement, and epidemiology. Students will begin developing a project at their clinical sites which will be implemented in spring semester. Student assessment includes: seminar participation, reflective essays, attendance at field-work sites, and assessment from community mentors. Pre Requisites: MED 2110

Fall MED2120  S01 19237 Arranged (G. Anandarajah)

**MED 2130. Patient Care in Complex Systems II.**
This is the third of a 3 course sequence for Master of Medical Sciences students. Students will continue their study of both theoretical and practical aspects of healthcare through an interactive seminar series, continued service learning at their longitudinal community healthcare site, and completion of their community project. Seminar topics: care of vulnerable populations, environmental health, population health, new models of healthcare delivery, ethical issues in healthcare, whole-person health, cultural humility, complementary and alternative medicine, and patient advocacy. Students assessment includes: seminar participation, reflective essays, attendance at field work sites, assessment from community mentors, and quality of project and presentation. Pre Requisites: MED 2110 and MED 2120.
MED 2140. Human Histology.
Human Histology provides an in-depth examination of the basic architecture of the body. Fundamental to this understanding is the cell and how during early development cells in the aggregate undergo specialization as tissues, which are the building blocks of the body. This course focuses first on the biology of the four basic tissues (epithelium, connective tissue, muscle and nerve) and second, how they contribute to the functional anatomy of all organs and systems. We will emphasize characteristic developmental, structure-function and regulatory relationships within normal cells and tissues, which in turn are the foundation for the understanding of pathological alteration.
Fall MED2140 S01 19238 Arranged (G. Anandarajah)

MED 2150. General Pathology.
Pathology is the study of the causes, mechanisms, and consequences of disease. In General Pathology students study in detail the cell and tissue alterations that lead to the production of human diseases. To uncover such alterations, morphological observations are correlated with studies involving molecular biology, biochemistry, and genetics. In studying the pathogenesis of human disease we pay close attention to epidemiological parameters, population health, aging, and to environmental and occupational health problems. General Pathology been integrated, whenever possible, with other courses in the Fall Semester of the Gateways Program, in order to maximize learning opportunities.
Fall MED2150 S01 19239 Arranged (G. Anandarajah)

MED 2160. Human Anatomy 1.
This course explores the anatomical organization of the human body, viewing anatomical structures as a product of development and functional demand. Human Anatomy provides an opportunity for students of diverse backgrounds, interests, and goals to emerge with an understanding of the human body as a cornerstone of medical science. The course uses a combination of lectures, on-line modules, and mandatory laboratory sessions examining human cadaver prosections, to impart broad conceptual and in-depth knowledge of this subject.
Fall MED2160 S01 19240 Arranged (G. Anandarajah)

MED 2170. Scientific Foundations of Medicine.
Scientific Foundations of Medicine is an integrated cross-disciplinary course that introduces the fundamental basic science principles relevant to the study of health, disease mechanisms and clinical medicine. As such the course consists of six blocks of core topics that incorporate foundational principles of molecular biology, cellular and metabolic biochemistry, nutritional science, cell physiology, inheritance patterns, mechanisms of genetic disorders, and immunology. Grounding in these scientific principles gives students insight into the biological complexity and genetic diversity that underlies disease processes.
Fall MED2170 S01 19241 Arranged (G. Anandarajah)

MED 2180. Brain Sciences and Neurological Disease.
Brain Sciences is composed of several interrelated components - Head Anatomy, Neurobiology, Neuropathophysiology, Neuropathology and Neuropharmacology. The intent of the course is to encourage the integration of underlying neuroanatomy and basic science principles with an understanding of the presentation and management of neurological diseases. Course leaders from each of these disciplines have worked closely together in order to present the material in a cohesive and logical framework that promotes the sequential acquisition of new information based upon a substantive understanding of the previous material.
Fall MED2180 S01 19238 Arranged (G. Anandarajah)

MED 2181. Brain Sciences with Head and Neck Anatomy.
This is a core course for the Scm in Medical Sciences degree, part of the Gateways program at Alpert Medical School. This course builds on 4 required prerequisite courses offered in the Fall Semester. In this course, students learn about the integration of neuroanatomy, gross anatomy and basic science principles, and the application of these principles to clinical neurologic dysfunction. In the anatomy portion of this course, students learn about the functional and developmental anatomy of the head and brain, and builds on anatomical structure and function learned in the fall semester. The neurobiology section is designed to acquaint students with the major structures and functions of the nervous system, building on cell physiology and introductory materials from the fall semester, and the application to clinical dysfunction.
Fall MED2181 S01 19239 Arranged (G. Anandarajah)

MED 2190. Microbiology and Infectious Disease.
Microbiology and Infectious Disease is an integrated course that introduces the basic biological principles, pathogenesis and host response, disease presentation, epidemiology, control and treatment of parasites, viruses, fungi and bacteria that cause human disease. Emphasis is placed on the most clinically significant and best characterized pathogens in each group. The Microbiology component of the course explores the characteristics of disease-causing microorganisms, mechanisms of transmission, immunity, and how specific microbial pathogens cause disease. Microbial disease states in multiple organ systems are addressed in the Infectious Disease component of the course with a focus on common infectious diseases and their clinical presentation.
Fall MED2190 S01 19240 Arranged (G. Anandarajah)

MED 2200. Anatomy and Physiology.
This course will cover major organ systems and disease sites. Organ functions will be presented in addition to standard anatomy and cross-sectional imaging based on different modalities (x-ray Mammography, CT, MRI, PET, US). Organs at risk and dose tolerance to normal structures will be discussed. Image Registration and Fusion will also be covered, as will motion management.
Fall MED2200 S01 18330 W 5:25-7:00(10) (E. Hall)

MED 2210. Radiological Physics and Dosimetry.
This course will cover the fundamental physics behind radiation production and interaction, including a review of pertinent mathematics, classical mechanics, and nuclear physics. Topics to be covered within basic radiation physics: radioactive decay, radiation producing devices, characteristics of the different types of radiation (photons, charged and uncharged particles), mechanisms of their interactions with materials, and essentials of the determination of absorbed doses, by measurement and calculation, from ionizing radiation sources used in medical physics (clinical) situations.
Fall MED2210 S01 18331 T 4:00-6:30(07) (G. Cardarelli)

MED 2220. Radiation Protection & Instrumentation.
This course examines principles of radiation protection with application to the hospital setting in radiation oncology, diagnostic imaging, and nuclear medicine. Designs of facilities and quality management programs are examined. Radiation safety practices are reviewed for involved hospital staff, patients, and the general public. This includes various radiation sources: electronically-generated photons and electrons, sources of sealed radioactivity, and unsealed sources of radioactivity. Additionally, the practice of radiation measurements as performed by the medical physicist is taught. This aspect includes associated dosimetry protocols, instrumentation, and clinical contexts. A practicum permits hands-on opportunities to assimilate the theoretical basis and rationale for radiation measurements.
Fall MED2220 S01 18332 W 3:20-5:10(10) (M. Rivard)
MED 2230. Computational Medical Physics.
The aim of the Computational Medical Physics course is to familiarize students with mathematical, statistical and computational techniques in Medical Physics and how they integrate at a systems level. Students will learn about the emerging field of Computational Medical Physics through the application of mathematical modeling, computer simulations and quantitative and data-intensive analyses to medical data towards enhancing the accuracy, safety and efficiency of patient care and providing an understanding of cancer research. Basic programming skills are expected.
Fall MED2230 S01 18333 Th 4:00-5:30(04) (U. Langner)

MED 2250. Radiation Therapy Physics.
This course will provide a comprehensive survey of basic radiotherapy physics, fundamental radiation therapy, and contemporary radiation therapy. The basic principles of radiolucency treatment methodologies, radiation detection, dose calibration methods, and image-based treatment planning will be reviewed. Topics to be covered include external beam radiation therapy (photons, protons, and electrons), brachytherapy, and special procedures. Image guidance methods will be discussed as well as patient and machine quality assurance.
Spr MED2250 S01 27297 W 4:00-6:30 (E. Klein)

MED 2260. Physics of Medical Imaging.
The course provides the necessary physics background that underpins day-to-day medical imaging physics activities. It is aimed primarily at new entrants to the profession, but should be of benefit to postgraduate students, postdoctoral research workers, physicist-managers, representatives of allied commercial organizations and anyone wishing to deepen or re-establish their understanding of the physics of medical imaging. Overviews of specialized or research related topics, such as positron emission tomography and magnetic resonance spectroscopy are given.
Spr MED2260 S01 27298 T 4:00-6:30(16) (E. Walsh)

MED 2270A. Research and Clinical Practicum for Medical Physics.
Customized for each project Note : 2.5 Credits
Fall MED2270A S01 18334 Arranged (E. Klein)

MED 2280. Nuclear Medicine Physics.
Nuclear Medical Physics - PET
Spr MED2280 S01 27303 Th 4:00-5:20 (M. Ourano)

MED 2290. Advanced Radiation Therapy.
Advanced Therapy is meant to serve as a guided self-study of advanced / applied topics in radiation therapy with emphasis on current clinical usage. Optional topics include, but are not limited to, dose calculation algorithms, optimization techniques, deformable registration techniques, modeling within treatment planning systems, and treatment planning.
Spr MED2290 S01 27300 T 4:00-5:20 (O. Semeniuk)

MED 2300. MR Imaging Technology, Ultrasound, and Interventional.
This course will provide an introduction to magnetic resonance imaging scanner hardware, image acquisition methods used in the clinical setting for various contrast weightings, imaging of physiologic function, and image reconstruction methods. Causes and corrective measures for image artifacts will be discussed. Image-guided interventions for therapeutic purposes are becoming increasingly common as minimally-invasive treatments increase in popularity. The course will discuss some common methods used in interventional techniques with attention to the hardware and real-time image acquisition methods used for such therapies. An introduction to ultrasound imaging will be given which will include the physical principles of image formation, application of real-time techniques, Doppler methods for assessing blood flow, and ultrasound use in interventional procedures.
Spr MED2300 S01 27302 W 4:00-6:30 (N. Hata)

MED 2310. Radiation Biology.
This program provides a comprehensive overview of radiation biology with a particular emphasis on aspects of direct relevance to the practice of radiation oncology. It addresses the molecular and cellular responses to radiation-induced damage that influence cell death in both tumors and normal tissues. Quantification of radiation effects and the underlying biological basis for fractionation of radiotherapy and dose-response relationships in the clinic are covered in depth. The biological basis for current approaches to improve radiotherapy will be described including novel fractionation schemes, retreatment issues, targeting hypoxia, and biological modifiers.
Spr MED2310 S01 27304 Th 5:25-6:30 (M. Schwer)

For students enrolled in the Primary Care-Population Medicine program at Alpert Medical School, this course is structured to allow students to conduct research focused on population health with a mentor at Brown University.

Program in Liberal Medical Education

PLME 0200. Primetime Bioethics.
Is it ethical to design a perfect baby? Who should get these organs? Is it ever okay to be dishonest with patients for their own good? These questions and more will be tackled in this discussion-based course that uses episodes of popular medical television shows to highlight topics in medical ethics. Students will watch 1-2 episodes of TV shows and read related articles and chapters on biomedical ethics and ethics theory. The goal is to give students the background with which to approach the ethical topics. This course may be most beneficial to students pursuing a career in medicine.

PLME 0400. Introduction to Medical Illustration.
This semester course explores the field of medical illustration and its many facets. Depiction of diseases, anatomy, medical practices and surgical procedures has been around since antiquity. Not only has medical illustration evolved over the centuries, it has played the role of historian, documenting the beliefs and knowledge of its time. Today, medical illustration is as present as ever despite the advent of other methods of medical documentation, including photography and videography.
Fall PLME0400 S01 17213 MW 4:30-6:00(10) (F. Luk)

This program has been developed for Brown PLME students and first year Italian medical students to familiarize the future physicians with the much-debated theme of health care delivery and policies. Students will focus on medical research beyond science through the critical study of the media, art, and health care literature. Students will compare the Italian and American systems, focusing on historical structures and current issues in health care delivery. Enrollment limited to 10.

PLME 0700. Communication in Health Care.
Communication is central to medical, nursing, public health and therapist practice and interpersonal relationships between patients and physicians/clinicians can be powerful curative agents. This course reviews theory and research on physician-patient communication. On-line videos, readings, discussions and exercises are enhanced by conducting and analyzing patient interviews. Appropriate for students interested in communication sciences, health psychology, health education, pre-med and other clinical training, and medical anthropology.
Spr PLME0700 S01 25496 W 3:00-5:30(10) (T. Zink)

“Wilderness, Disasters, and Global Health” is an interdisciplinary and integrative science course that explores the provision of medical care when challenges exist with regard to transportation, communication, equipment, facility infrastructure, medication supply lines, and the affordability and availability of skilled healthcare providers. This course, with a maximum enrollment of 15, is designed for any Brown senior who is interested in the outdoors, healthcare, or a science-based field. Instructor is an emergency physician, and anyone planning to pursue a medical career will learn skills to prepare for, and respond to, emergencies in a variety of limited resource environments.
PLME 1000. PLME Senior Seminar in Scientific Medicine.
This course is an integrative course to expose students to various medical specialties and associated clinical topics. It will include the exploration of facets of the transition to medical school and the journey to becoming a physician. The course is intended for seniors interested in attending medical school but will preferentially enroll PLME students. Prerequisite: PLME competency in Biology, Chemistry (inorganic and organic), Physics, and statistics. S/NC mandatory.

| Fall  | PLME1000  | S01  | 17211 | W    | 3:00-5:30(10) (S. Saintonge) |