The Warren Alpert Medical School of Brown University

Dean
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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 and are simultaneously admitted to Brown for their undergraduate studies. The PLME seeks highly qualified and strongly motivated high school students who are committed to a career in medicine at an early age and who also wish to pursue another area of academic interest to an advanced level of scholarship within the framework of a broad liberal education.

From a large (approximately 2,000) and highly qualified applicant pool, roughly 50 students matriculate annually. For additional information regarding the PLME, access the website at http://www.brown.edu/academics/medical/plme or contact the College Admission Office, Brown University, Box 1876, Providence, RI 02912-9706; (401) 863-2378.

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 PB Program Directors on a 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 AMCAS 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 continued academic progress and college graduation. 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 will 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 continuum, being dropped from 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 concentrations 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 towards 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/admissions/). 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/)

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/)

Primary Care - Population Medicine Combined MD-ScM Program

The Primary Care-Population Medicine (PC-FM) 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/)

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.

- Fall BIOL3001 S01 10001 Arranged "To Be Arranged"
- Fall BIOL3001 S02 10002 Arranged "To Be Arranged"
- Spr BIOL3001 S03 20001 Arranged "To Be Arranged"
- Spr BIOL3001 S04 20002 Arranged "To Be Arranged"

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

No description available.

- Fall BIOL3005 S01 18886 Arranged "To Be Arranged"
- Spr BIOL3005 S04 20003 Arranged "To Be Arranged"

**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.**

No description available.

- Fall BIOL3015 S12 10003 Arranged "To Be Arranged"
- Fall BIOL3015 S18 10004 Arranged "To Be Arranged"

**BIOL 3020. Nephrology.**

No description available.

- Fall BIOL3020 S12 10005 Arranged "To Be Arranged"
- Fall BIOL3020 S14 10006 Arranged "To Be Arranged"
- Fall BIOL3020 S24 10007 Arranged "To Be Arranged"
- Spr BIOL3020 S34 20004 Arranged "To Be Arranged"

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

No description available.

**BIOL 3030. Clinical Nephrology.**

No description available.

- Fall BIOL3030 S12 10008 Arranged "To Be Arranged"
- Fall BIOL3030 S14 10009 Arranged "To Be Arranged"
- Fall BIOL3030 S22 10010 Arranged "To Be Arranged"
- Fall BIOL3030 S24 10011 Arranged "To Be Arranged"

**BIOL 3035. Clinical Nephrology.**

No description available.

- Fall BIOL3035 S14 10012 Arranged "To Be Arranged"

**BIOL 3040. Clinical Dermatology.**

No description available.

- Fall BIOL3040 S12 10013 Arranged "To Be Arranged"
- Fall BIOL3040 S14 10014 Arranged "To Be Arranged"
- Fall BIOL3040 S21 10015 Arranged "To Be Arranged"
- Fall BIOL3040 S22 10016 Arranged "To Be Arranged"
- Fall BIOL3040 S24 10017 Arranged "To Be Arranged"
- Spr BIOL3040 S32 20005 Arranged "To Be Arranged"
- Spr BIOL3040 S34 20006 Arranged "To Be Arranged"

**BIOL 3050. Gastroenterology.**

No description available.

- Fall BIOL3050 S12 10018 Arranged "To Be Arranged"
- Fall BIOL3050 S14 10019 Arranged "To Be Arranged"
- Fall BIOL3050 S22 10020 Arranged "To Be Arranged"
- Fall BIOL3050 S23 10021 Arranged "To Be Arranged"
- Fall BIOL3050 S24 10022 Arranged "To Be Arranged"
- Spr BIOL3050 S32 20007 Arranged "To Be Arranged"
- Spr BIOL3050 S34 20008 Arranged "To Be Arranged"

**BIOL 3060. Gastroenterology.**

No description available.

- Fall BIOL3060 S01 18889 Arranged "To Be Arranged"
- Fall BIOL3060 S12 10023 Arranged "To Be Arranged"
- Fall BIOL3060 S14 10024 Arranged "To Be Arranged"
- Fall BIOL3060 S22 10025 Arranged "To Be Arranged"
- Fall BIOL3060 S24 10026 Arranged "To Be Arranged"
- Spr BIOL3060 S32 20009 Arranged "To Be Arranged"

**BIOL 3065. Infectious Disease.**

No description available.

- Fall BIOL3065 S12 10027 Arranged "To Be Arranged"
- Fall BIOL3065 S14 10028 Arranged "To Be Arranged"
- Fall BIOL3065 S24 10029 Arranged "To Be Arranged"
- Spr BIOL3065 S34 20010 Arranged "To Be Arranged"

**BIOL 3070. Infectious Disease.**

No description available.

- Fall BIOL3070 S12 19113 Arranged "To Be Arranged"
- Fall BIOL3070 S14 10030 Arranged "To Be Arranged"
- Fall BIOL3070 S22 10031 Arranged "To Be Arranged"
- Fall BIOL3070 S23 10032 Arranged "To Be Arranged"
- Fall BIOL3070 S24 10033 Arranged "To Be Arranged"
- Spr BIOL3070 S34 20011 Arranged "To Be Arranged"

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

No description available.

- Fall BIOL3073 S12 10034 Arranged "To Be Arranged"
- Fall BIOL3073 S14 10035 Arranged "To Be Arranged"
- Fall BIOL3073 S22 10036 Arranged "To Be Arranged"
- Fall BIOL3073 S24 10037 Arranged "To Be Arranged"
- Spr BIOL3073 S32 20012 Arranged "To Be Arranged"

**BIOL 3075. Infectious Disease.**

No description available.

- Fall BIOL3075 S14 10038 Arranged "To Be Arranged"
- Fall BIOL3075 S23 10039 Arranged "To Be Arranged"
BIOL 3080. HIV/AIDS.
No description available.
Fall BIOL3080 S12 10040 Arranged "To Be Arranged"
Fall BIOL3080 S14 10041 Arranged "To Be Arranged"
Fall BIOL3080 S22 10042 Arranged "To Be Arranged"
Fall BIOL3080 S23 10043 Arranged "To Be Arranged"
Fall BIOL3080 S24 10044 Arranged "To Be Arranged"
Spr BIOL3080 S31 20013 Arranged "To Be Arranged"
Spr BIOL3080 S32 20014 Arranged "To Be Arranged"
Spr BIOL3080 S33 20015 Arranged "To Be Arranged"
Spr BIOL3080 S44 20016 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-sting 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 10045 Arranged "To Be Arranged"
Fall BIOL3100 S21 10046 Arranged "To Be Arranged"
Fall BIOL3100 S22 10047 Arranged "To Be Arranged"
Fall BIOL3100 S24 10048 Arranged "To Be Arranged"
Spr BIOL3100 S32 20017 Arranged "To Be Arranged"
Spr BIOL3100 S34 20018 Arranged "To Be Arranged"

BIOL 3110. Clinical Adult Cardiology.
No description available.
Fall BIOL3110 S13 10049 Arranged "To Be Arranged"
Fall BIOL3110 S14 10050 Arranged "To Be Arranged"
Fall BIOL3110 S22 10051 Arranged "To Be Arranged"
Fall BIOL3110 S24 10052 Arranged "To Be Arranged"
Spr BIOL3110 S33 20019 Arranged "To Be Arranged"
Spr BIOL3110 S34 20020 Arranged "To Be Arranged"

BIOL 3120. Coronary Care Unit.
No description available.
Fall BIOL3120 S12 10053 Arranged "To Be Arranged"
Fall BIOL3120 S13 10054 Arranged "To Be Arranged"
Fall BIOL3120 S14 10055 Arranged "To Be Arranged"
Fall BIOL3120 S22 10056 Arranged "To Be Arranged"
Fall BIOL3120 S24 10057 Arranged "To Be Arranged"
Spr BIOL3120 S32 20021 Arranged "To Be Arranged"
Spr BIOL3120 S34 20022 Arranged "To Be Arranged"

BIOL 3130. Community General Cardiology.
No description available.
Fall BIOL3130 S12 10058 Arranged "To Be Arranged"
Fall BIOL3130 S14 10059 Arranged "To Be Arranged"
Fall BIOL3130 S22 10060 Arranged "To Be Arranged"
Fall BIOL3130 S24 10061 Arranged "To Be Arranged"
Spr BIOL3130 S32 20023 Arranged "To Be Arranged"

BIOL 3140. Cardiology.
No description available.
Fall BIOL3140 S14 10062 Arranged "To Be Arranged"
Fall BIOL3140 S22 10063 Arranged "To Be Arranged"
Fall BIOL3140 S24 10064 Arranged "To Be Arranged"
Spr BIOL3140 S34 20024 Arranged "To Be Arranged"

BIOL 3150. Med/Peds Infectious Diseases.
No description available.
Fall BIOL3150 S14 10065 Arranged "To Be Arranged"
Fall BIOL3150 S24 10066 Arranged "To Be Arranged"
Spr BIOL3150 S32 20025 Arranged "To Be Arranged"
Spr BIOL3150 S34 20026 Arranged "To Be Arranged"

BIOL 3165. Med/Peds Infectious Diseases.
No description available.
Fall BIOL3165 S14 10065 Arranged "To Be Arranged"
Fall BIOL3165 S24 10066 Arranged "To Be Arranged"
Spr BIOL3165 S32 20025 Arranged "To Be Arranged"
Spr BIOL3165 S34 20026 Arranged "To Be Arranged"

BIOL 3170. Urgent Care.
No description available.
Fall BIOL3170 S12 10067 Arranged "To Be Arranged"
Fall BIOL3170 S21 10068 Arranged "To Be Arranged"
Fall BIOL3170 S22 10069 Arranged "To Be Arranged"
Fall BIOL3170 S24 10070 Arranged "To Be Arranged"
Spr BIOL3170 S32 20027 Arranged "To Be Arranged"

BIOL 3180. Hospice and Palliative Medicine.
No description available.
Fall BIOL3180 S12 10071 Arranged "To Be Arranged"
Fall BIOL3180 S13 10072 Arranged "To Be Arranged"
Fall BIOL3180 S14 10073 Arranged "To Be Arranged"
Fall BIOL3180 S22 10074 Arranged "To Be Arranged"
Fall BIOL3180 S24 10075 Arranged "To Be Arranged"
Spr BIOL3180 S34 20028 Arranged "To Be Arranged"

BIOL 3190. Palliative Care - RH.
No description available.
Fall BIOL3190 S14 10076 Arranged "To Be Arranged"
Fall BIOL3190 S24 10077 Arranged "To Be Arranged"
Spr BIOL3190 S34 20029 Arranged "To Be Arranged"

BIOL 3200. Tropical Medicine in East Africa.
No description available.
Fall BIOL3200 S14 10078 Arranged "To Be Arranged"
Fall BIOL3200 S15 10079 Arranged "To Be Arranged"
Fall BIOL3200 S18 10080 Arranged "To Be Arranged"
Fall BIOL3200 S24 10081 Arranged "To Be Arranged"
Fall BIOL3200 S25 10082 Arranged "To Be Arranged"
Fall BIOL3200 S28 10083 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.

BIOL 3230. Hematology Oncology - MH.
No description available.

BIOL 3240. Clinical Hematology/Oncology.
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**Notes:**
- BIOL 3415: Clinical Medicine in Nicaragua
- BIOL 3420: Physical Medicine + Rehabilitation
- BIOL 3425: Men's Health: Lifestyle Medicine in Practice
- BIOL 3430: College Health Longitudinal
- BIOL 3440: Issues Concerning Deaf Patients in Healthcare
- BIOL 3450: Nuclear, Biological, Chemical Weapons of Mass Destruction Domestic Preparedness Training Seminar
- BIOL 3460: Cardiology
- BIOL 3470: Cardiovascular Medicine - Outpatient and Inpatient Practice
- BIOL 3480: Medical and Interventional Pain Management
- BIOL 3490: Clinical Reasoning and Human Errors in Medicine
- BIOL 3500: Rheumatology Elective
- BIOL 3510: Intro to POCUS
- BIOL 3515: Advanced Clinical Mentorship in Renal
- BIOL 3520: Advanced Clinical Mentorship in Dermatology
- BIOL 3525: Advanced Clinical Mentorship in Infectious Disease
- BIOL 3530: Advanced Clinical Mentorship in Cardiology
- BIOL 3540: Advanced Clinical Mentorship in Endocrinology
- BIOL 3550: Advanced Clinical Mentorship in Med/Peds Primary Care
- BIOL 3560: Advanced Clinical Mentorship in Pulmonary Disease
- BIOL 3570: Advanced Clinical Mentorship in Comprehensive HIV Care
- BIOL 3580: Advanced Clinical Mentorship in Adult Oncology
- BIOL 3590: Advanced Clinical Mentorship in Hematology/Oncology
- BIOL 3600: Advanced Clinical Mentorship in Rheumatology
- BIOL 3610: Advanced Clinical Mentorship in Internal Medicine
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| BIOL 3569  | Advanced Clinical Mentorship in Surgery           | No description available. |
|            |                                                  | Fall BIOL3569 S11 10203 Arranged 'To Be Arranged'
|            |                                                  | Fall BIOL3569 S12 10204 Arranged 'To Be Arranged'
|            |                                                  | Fall BIOL3569 S21 10205 Arranged 'To Be Arranged'
|            |                                                  | Fall BIOL3569 S22 10206 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 10207 Arranged 'To Be Arranged'
| BIOL 3571  | Advanced Clinical Mentorship in Urology           | No description available. |
|            |                                                  | Spr BIOL3571 S31 20065 Arranged 'To Be Arranged'
| BIOL 3572  | Advanced Clinical Mentorship in Hand Surgery      | No description available. |
|            |                                                  | Fall BIOL3572 S12 10208 Arranged 'To Be Arranged'
| BIOL 3573  | Advanced Clinical Mentorship in ENT               | No description available. |
|            |                                                  | Fall BIOL3573 S11 10209 Arranged 'To Be Arranged'
| BIOL 3574  | Advanced Clinical Mentorship in Pancreatic Surgery | No description available. |
| BIOL 3575  | Advanced Clinical Mentorship in Pediatric Neurology | No description available. |
| BIOL 3576  | Advanced Clinical Mentorship in Pediatrics        | No description available. |
|            |                                                  | Fall BIOL3576 S11 10210 Arranged 'To Be Arranged'
|            |                                                  | Fall BIOL3576 S12 10211 Arranged 'To Be Arranged'
|            |                                                  | Fall BIOL3576 S21 10212 Arranged 'To Be Arranged'
|            |                                                  | Fall BIOL3576 S22 10213 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 10214 Arranged 'To Be Arranged'
| Fall BIOL3577 S12 10215 Arranged 'To Be Arranged'
| Fall BIOL3577 S21 10216 Arranged 'To Be Arranged'
| Fall BIOL3577 S22 10217 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 10218 Arranged 'To Be Arranged'
| Fall BIOL3578 S12 10219 Arranged 'To Be Arranged'
| Spr BIOL3578 S31 20069 Arranged 'To Be Arranged'
| Spr BIOL3578 S41 20070 Arranged 'To Be Arranged'
| BIOL 3579  | Advanced Clinical Mentorship in Child Psychiatry  | No description available. |
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| Fall BIOL3579 S21 10221 Arranged 'To Be Arranged'
| BIOL 3580  | Advanced Clinical Mentorship in Clinical Rehabilitation Medicine | No description available. |
| BIOL 3581  | Advanced Clinical Mentorship in Emergency Medicine | No description available. |
| Fall BIOL3581 S11 10222 Arranged 'To Be Arranged'
| Fall BIOL3581 S12 10223 Arranged 'To Be Arranged'
| Fall BIOL3581 S21 10224 Arranged 'To Be Arranged'
| Fall BIOL3581 S22 10225 Arranged 'To Be Arranged'
| Spr BIOL3581 S31 20071 Arranged 'To Be Arranged'
| Spr BIOL3581 S41 20072 Arranged 'To Be Arranged'
| BIOL 3582  | Advanced Clinical Mentorship in Pediatric Emergency Medicine | No description available. |
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| Fall BIOL3582 S12 10227 Arranged 'To Be Arranged'
| Fall BIOL3582 S21 10228 Arranged 'To Be Arranged'
| Fall BIOL3582 S22 10229 Arranged 'To Be Arranged'
| Spr BIOL3582 S31 20073 Arranged 'To Be Arranged'
| BIOL 3583  | Advanced Clinical Mentorship in Family Medicine   | No description available. |
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| Fall BIOL3583 S12 10227 Arranged 'To Be Arranged'
| Fall BIOL3583 S21 10228 Arranged 'To Be Arranged'
| Fall BIOL3583 S22 10229 Arranged 'To Be Arranged'
| Spr BIOL3583 S31 20073 Arranged 'To Be Arranged'
| BIOL 3584  | Advanced Clinical Mentorship Vascular and Interventional Radiology | No description available. |
| Fall BIOL3584 S12 10230 Arranged 'To Be Arranged'
| Fall BIOL3584 S21 10231 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. |
| BIOL 3588  | Advanced Clinical Mentorship in Plastic Surgery   | No description available. |
| Fall BIOL3588 S12 10232 Arranged 'To Be Arranged'
| Fall BIOL3588 S21 19216 Arranged 'To Be Arranged'
| BIOL 3589  | Advanced Clinical Mentorship in Refugee Health    | No description available. |
| Fall BIOL3589 S21 10233 Arranged 'To Be Arranged'
| BIOL 3590  | Advanced Clinical Mentorship in Radiology         | No description available. |
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The Warren Alpert Medical School of Brown University
BIOL 3775. Subinternship in Neurocritical Care.
No description available.
Fall BIOL3775 S14 10263 Arranged "To Be Arranged"
Fall BIOL3775 S24 10264 Arranged "To Be Arranged"
Spr BIOL3775 S34 20093 Arranged "To Be Arranged"

BIOL 3776. Elective in Neurocritical Care.
No description available.
Fall BIOL3776 S12 18896 Arranged "To Be Arranged"
Fall BIOL3776 S22 10265 Arranged "To Be Arranged"
Spr BIOL3776 S32 20094 Arranged "To Be Arranged"

No description available.
Fall BIOL3780 S14 10266 Arranged "To Be Arranged"
Fall BIOL3780 S24 10267 Arranged "To Be Arranged"

BIOL 3785. Subinternship in Neurology.
No description available.
Fall BIOL3785 S14 10268 Arranged "To Be Arranged"
Fall BIOL3785 S24 10269 Arranged "To Be Arranged"

BIOL 3790. Aging and Dementia.
No description available.
Fall BIOL3790 S12 10270 Arranged "To Be Arranged"
Fall BIOL3790 S22 10271 Arranged "To Be Arranged"
Fall BIOL3790 S24 10272 Arranged "To Be Arranged"
Spr BIOL3790 S32 20095 Arranged "To Be Arranged"
Spr BIOL3790 S34 20096 Arranged "To Be Arranged"

BIOL 3795. Elective Clerkship in Neurology.
No description available.
Fall BIOL3795 S14 10273 Arranged "To Be Arranged"
Fall BIOL3795 S24 10274 Arranged "To Be Arranged"

BIOL 3800. Neurosurgery.
No description available.
Fall BIOL3800 S12 10275 Arranged "To Be Arranged"
Fall BIOL3800 S13 10276 Arranged "To Be Arranged"
Fall BIOL3800 S14 10277 Arranged "To Be Arranged"
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Fall BIOL3800 S24 10279 Arranged "To Be Arranged"
Spr BIOL3800 S32 20097 Arranged "To Be Arranged"
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BIOL 3815. Subinternship in Neurosurgery.
No description available.
Fall BIOL3815 S14 10280 Arranged "To Be Arranged"
Fall BIOL3815 S15 10281 Arranged "To Be Arranged"
Fall BIOL3815 S24 10282 Arranged "To Be Arranged"

No description available.
Fall BIOL3820 S12 18895 Arranged(04) "To Be Arranged"
Fall BIOL3820 S24 19177 Arranged "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.

Six weeks.
Fall BIOL3900 S01 10283 Arranged "To Be Arranged"
Fall BIOL3900 S02 10284 Arranged "To Be Arranged"
Spr BIOL3900 S03 20099 Arranged "To Be Arranged"

No description available.
Fall BIOL3905 S14 10285 Arranged "To Be Arranged"

BIOL 3910. Introduction to Surgical Oncology.
No description available.
Fall BIOL3910 S12 10286 Arranged "To Be Arranged"
Fall BIOL3910 S13 10287 Arranged "To Be Arranged"
Fall BIOL3910 S14 10288 Arranged "To Be Arranged"
Fall BIOL3910 S24 10289 Arranged "To Be Arranged"
Spr BIOL3910 S32 20100 Arranged "To Be Arranged"
Spr BIOL3910 S34 20101 Arranged "To Be Arranged"

BIOL 3915. Clerkship in Surgery - LIC.
No description available.
Fall BIOL3915 S01 18884 Arranged "To Be Arranged"
Spr BIOL3915 S04 20102 Arranged "To Be Arranged"

BIOL 3920. Surgery of the Alimentary Tract.
No description available.
Fall BIOL3920 S12 10290 Arranged "To Be Arranged"
Fall BIOL3920 S22 10291 Arranged "To Be Arranged"
Fall BIOL3920 S24 10292 Arranged "To Be Arranged"

BIOL 3930. Physical Medicine and Rehabilitation.
No description available.
Fall BIOL3930 S12 10293 Arranged "To Be Arranged"
Fall BIOL3930 S14 10294 Arranged "To Be Arranged"
Fall BIOL3930 S22 10295 Arranged "To Be Arranged"
Fall BIOL3930 S24 10296 Arranged "To Be Arranged"
Fall BIOL3930 S24 10297 Arranged "To Be Arranged"
Spr BIOL3930 S32 20103 Arranged "To Be Arranged"

No description available.
Fall BIOL3940 S14 10298 Arranged "To Be Arranged"
Fall BIOL3940 S24 10299 Arranged "To Be Arranged"
Spr BIOL3940 S32 20104 Arranged "To Be Arranged"
Spr BIOL3940 S34 20105 Arranged "To Be Arranged"

BIOL 3950. Outpatient Management of Musculoskeletal Problems.
No description available.
Fall BIOL3950 S12 10300 Arranged "To Be Arranged"
Fall BIOL3950 S14 10301 Arranged "To Be Arranged"
Fall BIOL3950 S22 10302 Arranged "To Be Arranged"
Fall BIOL3950 S24 10303 Arranged "To Be Arranged"
Spr BIOL3950 S32 20106 Arranged "To Be Arranged"
Spr BIOL3950 S34 20107 Arranged "To Be Arranged"

BIOL 3960. Subinternship in Orthopedic Surgery.
No description available.
Fall BIOL3960 S14 10304 Arranged "To Be Arranged"
Fall BIOL3960 S24 10305 Arranged "To Be Arranged"
Spr BIOL3960 S34 20108 Arranged "To Be Arranged"

BIOL 3965. Physical Medicine and Rehabilitation (PM&R): Outpatient.
No description available.
Fall BIOL3965 S13 10306 Arranged "To Be Arranged"
Fall BIOL3965 S14 10307 Arranged "To Be Arranged"
Fall BIOL3965 S24 10308 Arranged "To Be Arranged"

BIOL 3970. Orthopedic Surgery in the Community.
No description available.
Fall BIOL3970 S14 10309 Arranged "To Be Arranged"
Fall BIOL3970 S24 10310 Arranged "To Be Arranged"

BIOL 3975. Primary Care Orthopedics.
No description available.
Fall BIOL3975 S12 10311 Arranged "To Be Arranged"
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Fall BIOL 4020 S22 10343 Arranged To Be Arranged
Fall BIOL 4020 S23 10344 Arranged To Be Arranged
Fall BIOL 4020 S24 10345 Arranged To Be Arranged
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**BIOL 4025**. Subinternship in Anesthesiology.
No description available.
Fall BIOL 4025 S14 10346 Arranged To Be Arranged
Fall BIOL 4025 S24 10347 Arranged To Be Arranged
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**BIOL 4030**. Ophthalmology.
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Fall BIOL 4030 S12 10349 Arranged To Be Arranged
Fall BIOL 4030 S14 10350 Arranged To Be Arranged
Fall BIOL 4030 S22 10351 Arranged To Be Arranged
Fall BIOL 4030 S24 10352 Arranged To Be Arranged
Spr BIOL 4030 S32 20123 Arranged To Be Arranged
Spr BIOL 4030 S34 20124 Arranged To Be Arranged

**BIOL 4040**. Ophthalmology in a Missionary Hospital.
No description available.
Fall BIOL 4040 S14 10353 Arranged To Be Arranged
Fall BIOL 4040 S22 10354 Arranged To Be Arranged

**BIOL 4070**. Ophthalmology.
No description available.
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Fall BIOL 4070 S14 10356 Arranged To Be Arranged
Fall BIOL 4070 S22 10357 Arranged To Be Arranged
Fall BIOL 4070 S24 10358 Arranged To Be Arranged
Spr BIOL 4070 S32 20125 Arranged To Be Arranged
Spr BIOL 4070 S34 20126 Arranged To Be Arranged

**BIOL 4075**. Pediatric Ophthalmology.
No description available.
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Fall BIOL 4075 S22 19178 Arranged To Be Arranged

**BIOL 4100**. Pediatric Surgery.
No description available.
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Fall BIOL 4100 S14 10360 Arranged To Be Arranged
Fall BIOL 4100 S22 10361 Arranged To Be Arranged
Fall BIOL 4100 S24 10362 Arranged To Be Arranged
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**BIOL 4110**. Adult Cardiac Surgery.
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Fall BIOL 4110 S14 10364 Arranged To Be Arranged
Fall BIOL 4110 S22 10365 Arranged To Be Arranged
Fall BIOL 4110 S24 10366 Arranged To Be Arranged

**BIOL 4120**. Cardiothoracic Surgery.
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Fall BIOL 4120 S14 10368 Arranged To Be Arranged
Fall BIOL 4120 S22 10369 Arranged To Be Arranged
Fall BIOL 4120 S24 10370 Arranged To Be Arranged
Spr BIOL 4120 S32 20129 Arranged To Be Arranged

**BIOL 4130**. Subinternship in Cardiovascular Surgery.
No description available.
Fall BIOL 4130 S12 10371 Arranged To Be Arranged
Fall BIOL 4130 S14 10372 Arranged To Be Arranged
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15. BIOL 4215. Subinternship in Otolaryngology.
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17. BIOL 4240. Ambulatory Plastic Surgery.
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    Fall BIOL4250 S22 10411 Arranged     'To Be Arranged'
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    Spr BIOL4250 S33 20141 Arranged      'To Be Arranged'
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18. BIOL 4270. Subinternship in Cardiac Surgery.
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    Fall BIOL4280 S14 10416 Arranged     'To Be Arranged'
    Fall BIOL4280 S24 10417 Arranged     'To Be Arranged'

20. BIOL 4285. 4th Year Surgery Boot Camp.
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BIOL 4345. Internship Prep Course.  
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Fall BIOL4345 S21 10424 Arranged "To Be Arranged"  
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Fall BIOL4500 S02 10426 Arranged "To Be Arranged"  
Spr BIOL4500 S03 20146 Arranged "To Be Arranged"

No description available.  
Fall BIOL4515 S01 18885 Arranged "To Be Arranged"  
Spr BIOL4515 S04 20148 Arranged "To Be Arranged"

BIOL 4520. Pediatric Neurology.  
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Fall BIOL4520 S14 10431 Arranged "To Be Arranged"  
Fall BIOL4520 S24 10432 Arranged "To Be Arranged"  
Spr BIOL4520 S34 20143 Arranged "To Be Arranged"

BIOL 4530. Pediatric Urology.  
No description available.  
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Fall BIOL4530 S22 10436 Arranged "To Be Arranged"  
Spr BIOL4530 S32 20150 Arranged "To Be Arranged"

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Fall BIOL4540 S14 10439 Arranged "To Be Arranged"  
Fall BIOL4540 S22 10440 Arranged "To Be Arranged"  
Fall BIOL4540 S23 10441 Arranged "To Be Arranged"  
Fall BIOL4540 S24 10442 Arranged "To Be Arranged"  
Spr BIOL4540 S32 20151 Arranged "To Be Arranged"  
Spr BIOL4540 S34 20152 Arranged "To Be Arranged"

BIOL 4550. Adolescent Medicine.  
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Fall BIOL4550 S13 10444 Arranged "To Be Arranged"  
Fall BIOL4550 S14 10445 Arranged "To Be Arranged"  
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Fall BIOL4550 S23 10447 Arranged "To Be Arranged"  
Fall BIOL4550 S24 10448 Arranged "To Be Arranged"  
Spr BIOL4550 S34 20153 Arranged "To Be Arranged"

BIOL 4560. Pediatric Cardiology.  
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Fall BIOL4560 S22 10450 Arranged "To Be Arranged"  
Fall BIOL4560 S24 10451 Arranged "To Be Arranged"  
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BIOL 4570. Pediatric Infectious Diseases.  
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Fall BIOL4570 S14 10453 Arranged "To Be Arranged"  
Fall BIOL4570 S24 10454 Arranged "To Be Arranged"  
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BIOL 4580. Pediatric Endocrinology.  
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Fall BIOL4580 S24 10456 Arranged "To Be Arranged"  
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Fall BIOL4590 S24 10461 Arranged "To Be Arranged"

BIOL 4600. Pediatric Neurorehabilitation.  
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Fall BIOL4600 S22 10468 Arranged "To Be Arranged"  
Fall BIOL4600 S24 10469 Arranged "To Be Arranged"  
Spr BIOL4600 S32 20159 Arranged "To Be Arranged"

BIOL 4620. Subinternship in Perinatal Medicine (NICU).  
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Fall BIOL4620 S24 10461 Arranged "To Be Arranged"

No description available.  
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Fall BIOL4630 S24 10463 Arranged "To Be Arranged"  
Spr BIOL4630 S34 20160 Arranged "To Be Arranged"

BIOL 4640. Subinternship in Pediatric Critical Care.  
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Fall BIOL4650 S14 10468 Arranged "To Be Arranged"  
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BIOL 4655. Gender Sexuality & Reproductive Justice.  
No description available.  
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Fall BIOL4655 S24 10473 Arranged "To Be Arranged"  
Spr BIOL4655 S34 20162 Arranged "To Be Arranged"

BIOL 4670. Pediatrics in a Developing Country: Cambodia.  
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BIOL 4680. Subinternship in Pediatric Hematology-Oncology.  
No description available.  
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Fall BIOL4680 S24 10476 Arranged "To Be Arranged"

BIOL 4690. Pediatric Gastroenterology.  
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Fall BIOL4690 S14 10477 Arranged "To Be Arranged"  
Fall BIOL4690 S24 10478 Arranged "To Be Arranged"  
Spr BIOL4690 S34 20163 Arranged "To Be Arranged"
BIOL 4900. Core Clerkship in Obstetrics and Gynecology.
Six weeks.
Fall BIOL4900 S01 10479 Arranged "To Be Arranged"
Fall BIOL4900 S02 10480 Arranged "To Be Arranged"
Spr BIOL4900 S03 20164 Arranged "To Be Arranged"

BIOL 4905. Individualized Clerkship in Ob/Gyn.
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Fall BIOL4910 S24 10482 Arranged "To Be Arranged"
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BIOL 4910. Subinternship in Maternal Fetal Medicine.
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Fall BIOL4915 S02 10483 Arranged "To Be Arranged"
Spr BIOL4915 S04 20166 Arranged "To Be Arranged"

BIOL 4915. Clerkship in OB/Gyn - LIC.
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Fall BIOL4920 S24 10495 Arranged "To Be Arranged"

BIOL 4925. Outpatient General Obstetrics.
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Fall BIOL4925 S14 18900 Arranged "To Be Arranged"
Fall BIOL4925 S24 19179 Arranged "To Be Arranged"

BIOL 4940. Reproductive Endocrinology and Infertility.
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Fall BIOL4940 S14 10487 Arranged "To Be Arranged"
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BIOL 4950. Subinternship in Gynecologic Oncology and Pelvic Surgery.
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Fall BIOL4950 S14 10492 Arranged "To Be Arranged"
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BIOL 4955. Subinternship in Women's Ambulatory Ob-Gyn.
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BIOL 4960. Women's Reproductive Health Topics.
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Fall BIOL4960 S24 10498 Arranged "To Be Arranged"

BIOL 4970. Breast Disease.
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Fall BIOL4970 S14 10500 Arranged "To Be Arranged"
Fall BIOL4970 S22 10501 Arranged "To Be Arranged"
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BIOL 4975. Gynecologic and Breast Pathology.
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Fall BIOL4975 S14 10504 Arranged "To Be Arranged"
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BIOL 4980. Patients with Women's Cancers.
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Fall BIOL4980 S22 10508 Arranged "To Be Arranged"
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BIOL 4985. Family Planning & Reproductive Health.
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Fall BIOL4985 S14 10511 Arranged "To Be Arranged"
Fall BIOL4985 S24 10512 Arranged "To Be Arranged"
Spr BIOL4985 S34 20171 Arranged "To Be Arranged"

BIOL 4990. Clinical Cancer Genetics.
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Spr BIOL4990 S33 20172 Arranged "To Be Arranged"

BIOL 5000. Core Clerkship in Psychiatry.
Six weeks.
Fall BIOL5100 S01 10514 Arranged "To Be Arranged"
Fall BIOL5100 S02 10515 Arranged "To Be Arranged"
Spr BIOL5100 S03 20173 Arranged "To Be Arranged"

BIOL 5010. Core Clerkship in Psychiatry.
Six weeks.
Fall BIOL5100 S01 10514 Arranged "To Be Arranged"
Fall BIOL5100 S02 10515 Arranged "To Be Arranged"
Spr BIOL5100 S03 20173 Arranged "To Be Arranged"

BIOL 5105. Individualized Clerkship in Psychiatry.
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BIOL 5110. Subinternship in Psychiatry.
No description available.
Fall BIOL5110 S14 10516 Arranged "To Be Arranged"
Fall BIOL5110 S24 10517 Arranged "To Be Arranged"
Spr BIOL5110 S34 20174 Arranged "To Be Arranged"

BIOL 5130. Addiction Psychiatry.
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Fall BIOL5130 S13 10519 Arranged "To Be Arranged"
Fall BIOL5130 S14 10520 Arranged "To Be Arranged"
Fall BIOL5130 S22 10521 Arranged "To Be Arranged"
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Fall BIOL5140 S24 10524 Arranged "To Be Arranged"
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BIOL 5150. Neuropsychiatry and Behavioral Neurology.
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Fall BIOL5150 S22 10526 Arranged "To Be Arranged"
Fall BIOL5150 S24 10527 Arranged "To Be Arranged"

BIOL 5160. Women's Mental Health Elective.
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Fall BIOL5160 S14 10529 Arranged "To Be Arranged"
Fall BIOL5160 S22 10530 Arranged "To Be Arranged"
Fall BIOL5160 S24 10531 Arranged "To Be Arranged"
Spr BIOL5160 S34 20177 Arranged "To Be Arranged"
BIOL 5170. Correctional Psychiatry.  
No description available.  
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Fall BIOL5170 S24 10533 Arranged ‘To Be Arranged’  
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Fall BIOL5210 S14 10535 Arranged ‘To Be Arranged’  
Fall BIOL5210 S22 10536 Arranged ‘To Be Arranged’  
Fall BIOL5210 S24 10537 Arranged ‘To Be Arranged’  
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Fall BIOL5220 S24 10539 Arranged ‘To Be Arranged’  
Spr BIOL5220 S34 20181 Arranged ‘To Be Arranged’

BIOL 5225. Gender & Sexuality.  
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Fall BIOL5225 S14 18897 Arranged ‘To Be Arranged’  
Fall BIOL5225 S24 19342 Arranged ‘To Be Arranged’

No description available.  
Fall BIOL5230 S12 10540 Arranged ‘To Be Arranged’  
Fall BIOL5230 S14 10541 Arranged ‘To Be Arranged’  
Fall BIOL5230 S22 10542 Arranged ‘To Be Arranged’  
Fall BIOL5230 S24 10543 Arranged ‘To Be Arranged’

BIOL 5240. Healthcare for Homeless Communities.  
No description available.  
Fall BIOL5240 S21 10544 Arranged ‘To Be Arranged’  
Spr BIOL5240 S41 20182 Arranged ‘To Be Arranged’

BIOL 5270. Psychiatry of Late Life.  
No description available.  
Fall BIOL5270 S14 10545 Arranged ‘To Be Arranged’  
Fall BIOL5270 S22 10546 Arranged ‘To Be Arranged’  
Fall BIOL5270 S24 10547 Arranged ‘To Be Arranged’  
Spr BIOL5270 S34 20183 Arranged ‘To Be Arranged’

BIOL 5275. Addiction Medicine.  
No description available.  
Fall BIOL5275 S22 10548 Arranged ‘To Be Arranged’

BIOL 5300. Clerkship in Psychiatry-Clinical Neuroscience.  
Six weeks.  
Fall BIOL5300 S01 10549 Arranged ‘To Be Arranged’  
Fall BIOL5300 S02 10550 Arranged ‘To Be Arranged’

BIOL 5315. Clerkship in Psychiatry.  
No description available.  
Fall BIOL5315 S01 10551 Arranged ‘To Be Arranged’  
Fall BIOL5315 S02 10552 Arranged ‘To Be Arranged’  
Spr BIOL5315 S03 20184 Arranged ‘To Be Arranged’

BIOL 5320. Clerkship in Psychiatry - LIC.  
No description available.  
Fall BIOL5320 S01 18883 Arranged ‘To Be Arranged’  
Spr BIOL5320 S04 20185 Arranged ‘To Be Arranged’

BIOL 5325. Clerkship in Neurology.  
No description available.  
Fall BIOL5325 S01 10553 Arranged ‘To Be Arranged’  
Fall BIOL5325 S02 10554 Arranged ‘To Be Arranged’  
Spr BIOL5325 S03 20186 Arranged ‘To Be Arranged’  

BIOL 5330. Clerkship in Neurology - LIC.  
No description available.  
Fall BIOL5330 S01 18887 Arranged ‘To Be Arranged’  
Spr BIOL5330 S04 20187 Arranged ‘To Be Arranged’

BIOL 5400. Core Clerkship in Community Health.  
Six weeks.  
Fall BIOL5400 S01 10555 Arranged ‘To Be Arranged’  
Fall BIOL5400 S02 10556 Arranged ‘To Be Arranged’

BIOL 5460. Physical Medicine and Rehabilitation.  
No description available.  
Fall BIOL5460 S23 10557 Arranged ‘To Be Arranged’  
Fall BIOL5460 S24 10558 Arranged ‘To Be Arranged’

BIOL 5480. Rural Community Medicine.  
No description available.  
Fall BIOL5480 S12 10559 Arranged ‘To Be Arranged’  
Fall BIOL5480 S14 10560 Arranged ‘To Be Arranged’  
Fall BIOL5480 S22 10561 Arranged ‘To Be Arranged’  
Fall BIOL5480 S24 10562 Arranged ‘To Be Arranged’  
Spr BIOL5480 S34 20188 Arranged ‘To Be Arranged’

BIOL 5490. Geriatrics and Rehabilitation.  
No description available.  
Fall BIOL5490 S12 10563 Arranged ‘To Be Arranged’  
Fall BIOL5490 S14 10564 Arranged ‘To Be Arranged’  
Fall BIOL5490 S24 10565 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.

No description available.
BIOL 5630. Emergency Medicine.
No description available.
Fall BIOL5630 S12 10570 Arranged 'To Be Arranged'
Fall BIOL5630 S14 10571 Arranged 'To Be Arranged'
Fall BIOL5630 S22 10572 Arranged 'To Be Arranged'
Fall BIOL5630 S24 10573 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 10574 Arranged 'To Be Arranged'
Fall BIOL5640 S22 10575 Arranged 'To Be Arranged'
Fall BIOL5640 S24 10576 Arranged 'To Be Arranged'
Spr BIOL5640 S34 20194 Arranged 'To Be Arranged'

No description available.
Fall BIOL5650 S14 10577 Arranged 'To Be Arranged'
Fall BIOL5650 S22 10578 Arranged 'To Be Arranged'
Fall BIOL5650 S23 10579 Arranged 'To Be Arranged'
Fall BIOL5650 S24 10580 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 10581 Arranged 'To Be Arranged'
Fall BIOL5655 S22 10582 Arranged 'To Be Arranged'
Fall BIOL5655 S24 10583 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 10588 Arranged 'To Be Arranged'
Fall BIOL5665 S24 19180 Arranged 'To Be Arranged'

BIOL 5670. EMS Systems of Care.
No description available.
Fall BIOL5670 S24 19341 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.
Spr BIOL5795 S04 20197 Arranged 'To Be Arranged'

BIOL 5800. Core Clerkship in Family Medicine.
Six weeks.
Fall BIOL5800 S01 10584 Arranged 'To Be Arranged'
Fall BIOL5800 S02 10585 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 10586 Arranged 'To Be Arranged'

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

No description available.
Fall BIOL5810 S12 10587 Arranged 'To Be Arranged'
Fall BIOL5810 S13 10588 Arranged 'To Be Arranged'
Fall BIOL5810 S14 10589 Arranged 'To Be Arranged'
Fall BIOL5810 S22 10590 Arranged 'To Be Arranged'
Fall BIOL5810 S23 19338 Arranged 'To Be Arranged'
Fall BIOL5810 S24 10591 Arranged 'To Be Arranged'
Spr BIOL5810 S32 20199 Arranged 'To Be Arranged'
Spr BIOL5810 S34 20200 Arranged 'To Be Arranged'

BIOL 5815. Subinternship in Maternal and Child Health.
No description available.
Fall BIOL5815 S14 10592 Arranged 'To Be Arranged'
Fall BIOL5815 S24 10593 Arranged 'To Be Arranged'

BIOL 5820. Elective in Family Medicine.
No description available.
Fall BIOL5820 S12 10594 Arranged 'To Be Arranged'
Fall BIOL5820 S14 10595 Arranged 'To Be Arranged'
Fall BIOL5820 S22 10596 Arranged 'To Be Arranged'
Fall BIOL5820 S24 10597 Arranged 'To Be Arranged'
Spr BIOL5820 S32 20201 Arranged 'To Be Arranged'
Spr BIOL5820 S34 20202 Arranged 'To Be Arranged'

BIOL 5830. Free Clinic Preceptorship.
No description available.
Spr BIOL5830 S41 20203 Arranged 'To Be Arranged'

BIOL 5850. Primary Care Sports Medicine.
No description available.
Fall BIOL5850 S12 10599 Arranged 'To Be Arranged'
Fall BIOL5850 S14 10600 Arranged 'To Be Arranged'
Fall BIOL5850 S22 10601 Arranged 'To Be Arranged'
Fall BIOL5850 S24 10602 Arranged 'To Be Arranged'
Spr BIOL5850 S34 20204 Arranged 'To Be Arranged'

BIOL 5870. Subinternship in Family Medicine.
No description available.
Fall BIOL5870 S14 10603 Arranged 'To Be Arranged'
Fall BIOL5870 S24 10604 Arranged 'To Be Arranged'

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

BIOL 5885. Clinical Skills Clerkship.
No description available.
Fall BIOL5885 S01 10605 Arranged 'To Be Arranged'
Fall BIOL5885 S11 10606 Arranged 'To Be Arranged'
BIOL 5895. Medical Spanish.
No description available.
Fall BIOL5895 S11 10607 Arranged 'To Be Arranged'
Fall BIOL5895 S12 10608 Arranged 'To Be Arranged'
Fall BIOL5895 S13 10609 Arranged 'To Be Arranged'
Fall BIOL5895 S14 10610 Arranged 'To Be Arranged'
Fall BIOL5895 S18 10611 Arranged 'To Be Arranged'
Fall BIOL5895 S21 10612 Arranged 'To Be Arranged'
Fall BIOL5895 S22 10613 Arranged 'To Be Arranged'
Fall BIOL5895 S24 10614 Arranged 'To Be Arranged'
Fall BIOL5895 S25 10615 Arranged 'To Be Arranged'
Fall BIOL5895 S26 10616 Arranged 'To Be Arranged'
Fall BIOL5895 S28 10617 Arranged 'To Be Arranged'
Spr BIOL5895 S31 20205 Arranged 'To Be Arranged'
Spr BIOL5895 S32 20206 Arranged 'To Be Arranged'
Spr BIOL5895 S33 20207 Arranged 'To Be Arranged'
Spr BIOL5895 S34 20208 Arranged 'To Be Arranged'
Spr BIOL5895 S35 20209 Arranged 'To Be Arranged'
Spr BIOL5895 S36 20210 Arranged 'To Be Arranged'
Spr BIOL5895 S37 20211 Arranged 'To Be Arranged'
Spr BIOL5895 S38 20212 Arranged 'To Be Arranged'
Spr BIOL5895 S41 20213 Arranged 'To Be Arranged'
Spr BIOL5895 S44 20214 Arranged 'To Be Arranged'
Spr BIOL5895 S48 20215 Arranged 'To Be Arranged'

BIOL 5896. Fundamentals of Health Policy and Management.
No description available.
Fall BIOL5896 S22 10618 Arranged 'To Be Arranged'

BIOL 5897. Self Study in EKG Interpretation.
No description available.
Fall BIOL5897 S11 18888 Arranged 'To Be Arranged'
Fall BIOL5897 S12 10619 Arranged 'To Be Arranged'
Fall BIOL5897 S13 10620 Arranged 'To Be Arranged'
Fall BIOL5897 S14 10621 Arranged 'To Be Arranged'
Fall BIOL5897 S21 10622 Arranged 'To Be Arranged'
Fall BIOL5897 S22 10623 Arranged 'To Be Arranged'
Fall BIOL5897 S24 10624 Arranged 'To Be Arranged'
Spr BIOL5897 S32 20217 Arranged 'To Be Arranged'
Spr BIOL5897 S33 20218 Arranged 'To Be Arranged'
Spr BIOL5897 S34 20219 Arranged 'To Be Arranged'
Spr BIOL5897 S42 20220 Arranged 'To Be Arranged'
Spr BIOL5897 S43 20221 Arranged 'To Be Arranged'
Spr BIOL5897 S44 20222 Arranged 'To Be Arranged'

No description available.

BIOL 5899. Point of Care Ultrasound.
No description available.
Fall BIOL5899 S22 10625 Arranged 'To Be Arranged'
Spr BIOL5899 S32 20223 Arranged 'To Be Arranged'

BIOL 5900. Art and Medicine Seminar.
No description available.

BIOL 5920. Public Health and Primary Care in Rural Honduras.
No description available.
Fall BIOL5920 S11 10626 Arranged 'To Be Arranged'

BIOL 5990. Internship Preparation Elective.
No description available.

BIOL 6010. Human Anatomy.
No description available.
Fall BIOL6010 S11 10627 Arranged 'To Be Arranged'
Fall BIOL6010 S12 10628 Arranged 'To Be Arranged'
Fall BIOL6010 S14 10629 Arranged 'To Be Arranged'
Spr BIOL6010 S34 20224 Arranged 'To Be Arranged'

BIOL 6110. Applied Pathology.
No description available.
Fall BIOL6110 S12 10630 Arranged 'To Be Arranged'
Fall BIOL6110 S13 10631 Arranged 'To Be Arranged'
Fall BIOL6110 S14 10632 Arranged 'To Be Arranged'
Fall BIOL6110 S22 10633 Arranged 'To Be Arranged'
Fall BIOL6110 S24 10634 Arranged 'To Be Arranged'
Spr BIOL6110 S32 20225 Arranged 'To Be Arranged'
Spr BIOL6110 S34 20226 Arranged 'To Be Arranged'

BIOL 6120. Research in Perinatal/Pediatric Pathology.
No description available.
Fall BIOL6120 S12 10635 Arranged 'To Be Arranged'
Fall BIOL6120 S13 10636 Arranged 'To Be Arranged'
Fall BIOL6120 S22 10637 Arranged 'To Be Arranged'
Fall BIOL6120 S24 19281 Arranged 'To Be Arranged'
Spr BIOL6120 S34 20227 Arranged 'To Be Arranged'

BIOL 6140. Seminar in Clinical Pathological, Developmental and Pediatric Pathology.
No description available.
Fall BIOL6140 S11 10638 Arranged 'To Be Arranged'
Fall BIOL6140 S12 10639 Arranged 'To Be Arranged'
Fall BIOL6140 S14 10640 Arranged 'To Be Arranged'
Fall BIOL6140 S22 10641 Arranged 'To Be Arranged'
Fall BIOL6140 S24 10642 Arranged 'To Be Arranged'
Spr BIOL6140 S32 20228 Arranged 'To Be Arranged'
Spr BIOL6140 S34 20229 Arranged 'To Be Arranged'

BIOL 6150. Neuropathology.
No description available.
Fall BIOL6150 S11 19112 Arranged 'To Be Arranged'
Fall BIOL6150 S12 10643 Arranged 'To Be Arranged'
Fall BIOL6150 S14 10644 Arranged 'To Be Arranged'
Fall BIOL6150 S22 10645 Arranged 'To Be Arranged'
Fall BIOL6150 S24 10646 Arranged 'To Be Arranged'
Spr BIOL6150 S32 20230 Arranged 'To Be Arranged'
Spr BIOL6150 S34 20231 Arranged 'To Be Arranged'

BIOL 6155. Subinternship in Pathology.
No description available.
Fall BIOL6155 S14 18902 Arranged 'To Be Arranged'

BIOL 6160. Pathology & Lab Medicine.
No description available.
Fall BIOL6160 S24 19181 Arranged 'To Be Arranged'

BIOL 6260. Radiation Oncology in a Private Practice Setting.
No description available.
Fall BIOL6260 S22 10647 Arranged 'To Be Arranged'
Spr BIOL6260 S32 20232 Arranged 'To Be Arranged'

BIOL 6280. Diagnostic Radiology and Nuclear Medicine.
No description available.
Fall BIOL6280 S12 10648 Arranged 'To Be Arranged'
Fall BIOL6280 S22 10649 Arranged 'To Be Arranged'
Spr BIOL6280 S32 20233 Arranged 'To Be Arranged'
Spr BIOL6280 S34 20234 Arranged 'To Be Arranged'

BIOL 6290. Diagnostic Radiology.
No description available.
Fall BIOL6290 S12 10650 Arranged 'To Be Arranged'
Fall BIOL6290 S13 10651 Arranged 'To Be Arranged'
Fall BIOL6290 S14 10652 Arranged 'To Be Arranged'
Fall BIOL6290 S22 10653 Arranged 'To Be Arranged'
Fall BIOL6290 S23 10654 Arranged 'To Be Arranged'
Fall BIOL6290 S24 10655 Arranged 'To Be Arranged'
Spr BIOL6290 S32 20235 Arranged 'To Be Arranged'
Spr BIOL6290 S34 20236 Arranged 'To Be Arranged'
## BIOL 6300. Nuclear Medicine Preceptorship.
No description available.
- Fall BIOL6300 S12 10656 Arranged 'To Be Arranged'
- Fall BIOL6300 S12 10657 Arranged 'To Be Arranged'
- Fall BIOL6300 S12 10658 Arranged 'To Be Arranged'
- Fall BIOL6300 S12 10659 Arranged 'To Be Arranged'
- Spr BIOL6300 S12 20237 Arranged 'To Be Arranged'

### BIOL 6310. Subinternship in Interventional Radiology.
No description available.
- Fall BIOL6310 S14 10660 Arranged 'To Be Arranged'
- Fall BIOL6310 S14 10661 Arranged 'To Be Arranged'
- Fall BIOL6310 S14 10662 Arranged 'To Be Arranged'
- Fall BIOL6310 S14 10663 Arranged 'To Be Arranged'
- Spr BIOL6310 S14 20238 Arranged 'To Be Arranged'

### BIOL 6320. Vascular and Interventional Radiology.
No description available.
- Fall BIOL6320 S12 10664 Arranged 'To Be Arranged'
- Fall BIOL6320 S12 10665 Arranged 'To Be Arranged'
- Fall BIOL6320 S12 10666 Arranged 'To Be Arranged'
- Fall BIOL6320 S12 10667 Arranged 'To Be Arranged'
- Spr BIOL6320 S12 20239 Arranged 'To Be Arranged'

### BIOL 6330. Body Imaging and Intervention.
No description available.
- Fall BIOL6330 S12 10668 Arranged 'To Be Arranged'
- Fall BIOL6330 S12 10669 Arranged 'To Be Arranged'
- Fall BIOL6330 S12 10670 Arranged 'To Be Arranged'
- Fall BIOL6330 S12 10671 Arranged 'To Be Arranged'
- Spr BIOL6330 S12 20240 Arranged 'To Be Arranged'

### BIOL 6335. Cardiothoracic Imaging and Intervention.
No description available.
- Fall BIOL6335 S12 10672 Arranged 'To Be Arranged'
- Fall BIOL6335 S12 10673 Arranged 'To Be Arranged'
- Fall BIOL6335 S12 10674 Arranged 'To Be Arranged'
- Fall BIOL6335 S12 10675 Arranged 'To Be Arranged'
- Spr BIOL6335 S12 20241 Arranged 'To Be Arranged'

### BIOL 6340. Community Radiology - Newport.
No description available.
- Fall BIOL6340 S12 10676 Arranged 'To Be Arranged'
- Fall BIOL6340 S12 10677 Arranged 'To Be Arranged'
- Fall BIOL6340 S12 10678 Arranged 'To Be Arranged'
- Spr BIOL6340 S12 20242 Arranged 'To Be Arranged'

### BIOL 6345. General Radiology Clinical Elective.
No description available.
- Fall BIOL6345 S14 10679 Arranged 'To Be Arranged'
- Fall BIOL6345 S14 10680 Arranged 'To Be Arranged'
- Fall BIOL6345 S14 10681 Arranged 'To Be Arranged'
- Fall BIOL6345 S14 10682 Arranged 'To Be Arranged'
- Spr BIOL6345 S14 20243 Arranged 'To Be Arranged'
- Spr BIOL6345 S14 20244 Arranged 'To Be Arranged'

### BIOL 6360. Neuroradiology.
No description available.
- Fall BIOL6360 S12 10683 Arranged 'To Be Arranged'
- Fall BIOL6360 S12 10684 Arranged 'To Be Arranged'
- Fall BIOL6360 S12 10685 Arranged 'To Be Arranged'
- Fall BIOL6360 S12 10686 Arranged 'To Be Arranged'
- Fall BIOL6360 S12 10687 Arranged 'To Be Arranged'
- Spr BIOL6360 S12 20245 Arranged 'To Be Arranged'

### BIOL 6380. Pediatric Radiology.
No description available.
- Fall BIOL6380 S12 10688 Arranged 'To Be Arranged'
- Fall BIOL6380 S12 10689 Arranged 'To Be Arranged'
- Spr BIOL6380 S12 20246 Arranged 'To Be Arranged'

### BIOL 6390. Intro to Women's Diagnostic Imaging.
No description available.
- Fall BIOL6390 S12 10690 Arranged 'To Be Arranged'
- Fall BIOL6390 S12 10691 Arranged 'To Be Arranged'
- Fall BIOL6390 S12 10692 Arranged 'To Be Arranged'
- Fall BIOL6390 S12 10693 Arranged 'To Be Arranged'
- Spr BIOL6390 S12 20247 Arranged 'To Be Arranged'
- Spr BIOL6390 S12 20248 Arranged 'To Be Arranged'

### BIOL 6410. Radiation Oncology Exploratory Elective.
No description available.
- Fall BIOL6410 S12 10694 Arranged 'To Be Arranged'
- Fall BIOL6410 S12 10695 Arranged 'To Be Arranged'
- Spr BIOL6410 S12 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. Poverty, Health and Law.
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.

No description available.

### BIOL 6507. Elective in Mindfulness Training.
No description available.

### BIOL 6508. Gender and Sexuality in Healthcare: Caring for All.
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.

### BIOL 6509. Introduction to Surgical Subspecialties.
No description available.

### BIOL 6510. Topics in Medicine - An International Perspective at University of Rostock, Germany.
No description available.
BIOL 6511. Comparative Medical Ethics at University of Tuebingen, Germany.
No description available.

BIOL 6512. Modern Genetics: Ethics, Policy, and the Doctor-Patient Relationship.
No description available.

BIOL 6513. (Play)writing and Medicine.
No description available.

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.

BIOL 6515. Humanities as Medical Instruments.
No description available.

BIOL 6516. Race, Health Disparities, and Biomedical Interpretations.
No description available.

BIOL 6517. Diseases, Doctors and Divas.
No description available.

BIOL 6518. Design and Health.
No description available.

BIOL 6519. Leadership in the Health Professions.
No description available.

BIOL 6520. Artists and Scientists as Partners.
No description available.

BIOL 6521. Advanced Spanish.
No description available.

BIOL 6522. The Healer's Art.
No description available.

BIOL 6524. Introduction to Sports Medicine.
No description available.

No description available.

BIOL 6526. Neuroimaging of Mindfulness + Contemplative Practice.
No description available.

BIOL 6527. Physician as Medical Illustrator.
No description available.

BIOL 6528. Art and Healing.
No description available.

BIOL 6529. Addiction Medicine.
No description available.

BIOL 6530. Homeless Communities Health Outreach.
No description available.

BIOL 6533. Sex and Gender Based Medicine.
No description available.

BIOL 6534. Neurological Surgery.
No Description Available.

BIOL 6535. Biomedical Informatics.
No description available.

No description available.

BIOL 6537. Practical Skills in EMS and Disaster Response.
No description available.

BIOL 6539. Medical Journalism.
No description available.

No description available.

BIOL 6542. Medical Portuguese.
No description available.

BIOL 6543. Introduction to Podcasting for Medical Education.
No description available.

BIOL 6544. Introduction to Medical Arabic.
No description available.

BIOL 6546. Medical Impact of Translational and Basic Science.
No description available.

BIOL 6547. Medical Students Outreach to Mothers to Be (MOMS).
No description available.

BIOL 6551. The Bionic Human Elective.
No description available.

BIOL 6552. Wilderness Medicine Preclinical Elective.
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 & 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.

BIOL 6553. Refugee Health and Advocacy.
No description available.

No description available.

BIOL 6555. Health and Structures of Oppression.
No description available.

No description available.

BIOL 6557. Sexual Health.
No description available.

BIOL 6558. Medical Impact of Translational and Basic Science.
No description available.

BIOL 6559. Entrepreneurship in Medicine.
No description available.

No description available.

BIOL 6562. Environmental Health.
No description available.

BIOL 6563. Qualified Professional Test Counselor Certification Course.
No description available.

BIOL 6564. Research Statistics.
No description available.

BIOL 6565. Classroom Connection: Understanding Allergy and Immunology.
No description available.

BIOL 6566. Food and Health.
No description available.

BIOL 6567. Quantitative Statistics.
No description available.

BIOL 6568. Intro to Patient Safety + Quality Improvement.
No description available.

BIOL 6569. The Virtuous Physician.
No description available.

BIOL 6570. Narrative Medicine.
No description available.

No description available.
BIOL 6672. Introduction to Trauma.
No description available.

BIOL 6674. Introduction to Diagnostic Imaging.
No description available.

BIOL 6675. The Business of Medicine.
No description available.

BIOL 6676. Intro to Dermatology.
No description available.

BIOL 6677. Digital Health.
No description available.

BIOL 6678. Incarceration and Health.
No description available.

BIOL 6679. San Miguel Project.
No description available.

BIOL 6680. AMS Medical Ethics.
No description available.

BIOL 6681. Integrative Medicine in Practice.
No description available.

BIOL 6682. Music and Medicine.
No description available.

BIOL 6683. Introduction to the Electronic Health Record.
No description available.

No description available.

BIOL 6685. Medicine in Film & TV.
No description available.

BIOL 6686. BE REAL About Health.
No description available.

BIOL 6687. Trauma-Informed Patient Care.
No description available.

BIOL 6688. Intro to Orthopaedic Surgery.
No description available.

BIOL 6689. Pathways to Medicine.
No description available.

BIOL 6690. An Introduction to the History of Medicine.
No description available.

BIOL 6691. Introduction to Urology.
No description available.

BIOL 6692. Introduction to Interventional Radiology.
No description available.

BIOL 6693. Sexual Assault and Domestic Violence Training.
No description available.

BIOL 6695. Exploring the Biopsychosocial Model.
No description available.

BIOL 6696. Research in Medicine.
No description available.

BIOL 6697. Studio Art for Medical Practitioners.
No description available.

BIOL 6698. Vital Signs: Intro to Deaf Culture and American Sign Language.
No description available.

BIOL 6700. Spirituality in Healthcare.
No description available.

BIOL 6701. Last Mile Healthcare Delivery.
No description available.

BIOL 6702. Medical Documentary.
No description available.

BIOL 6703. Housing, Disability & Health Justice.
No description available.

BIOL 6704. Anesthesia: Much More Than Putting You to Sleep.
Anesthesia.
No description available.

BIOL 6705. Climate Change and Health.
No description available.

BIOL 6706. Managing Finances in Medicine.
No description available.

BIOL 6707. Medical Terminology.
No description available.

BIOL 6708. Medical Humanities Pre-Clerkship Elective.
No description available.

No description available.

BIOL 6710. Innovation and Entrepreneurship in Modern Medicine.
No description available.

BIOL 6711. Practical Skills in EMS and Disaster Response.
No description available.

BIOL 6712. Treating Pain: Intro to Interventional, Non-Interventional, and Alternative Therapies.
No description available.

BIOL 6713. Introduction to Ophthalmology.
No description available.

BIOL 6714. Intro to Surgical Anatomy.
No description available.

BIOL 6715. Planetary Health.
No description available.

BIOL 6716. Art Speaks.
No description available.

No description available.

BIOL 6718. Art in Medicine.
No description available.

BIOL 6800. Elective in Biotechnology.
No description available.

BIOL 7000. Away Elective 1.
No description available.

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Fall BIOL7010 S26 10716 Arranged 'To Be Arranged'
Spr BIOL7010 S31 20255 Arranged 'To Be Arranged'
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BIOL 7020. Away Elective 3.
No description available.
Fall BIOL7020 S14 10717 Arranged 'To Be Arranged'
Fall BIOL7020 S22 10718 Arranged 'To Be Arranged'
Fall BIOL7020 S23 10719 Arranged 'To Be Arranged'
Fall BIOL7020 S24 10720 Arranged 'To Be Arranged'
Spr BIOL7020 S31 20258 Arranged 'To Be Arranged'
Spr BIOL7020 S34 20259 Arranged 'To Be Arranged'

BIOL 7030. Away Elective 4.
No description available.
Fall BIOL7030 S23 10721 Arranged 'To Be Arranged'
Fall BIOL7030 S24 10722 Arranged 'To Be Arranged'

BIOL 7040. Away Elective 5.
No description available.

BIOL 7050. Away Elective.
No description available.

BIOL 7100. Independent Study 1.
No description available.
Fall BIOL7100 S11 10723 Arranged 'To Be Arranged'
Fall BIOL7100 S12 10724 Arranged 'To Be Arranged'
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Fall BIOL7100 S2B 10741 Arranged 'To Be Arranged'
Fall BIOL7100 S2C 10742 Arranged 'To Be Arranged'
Fall BIOL7100 S2D 10743 Arranged 'To Be Arranged'
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Spr BIOL7100 S41 20268 Arranged 'To Be Arranged'
Spr BIOL7100 S44 20269 Arranged 'To Be Arranged'

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Fall BIOL7120 S22 10758 Arranged 'To Be Arranged'
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**BIOL 7130. Independent Study.**  
No description available.  
Fall BIOL7130 S14 19115 Arranged "To Be Arranged"

**BIOL 7140. Approved Subinternship Independent Study.**  
No description available.  
Fall BIOL7140 S16 10761 Arranged "To Be Arranged"  
Fall BIOL7140 S24 10762 Arranged "To Be Arranged"  
Spr BIOL7140 S34 20274 Arranged "To Be Arranged"

**BIOL 7150. Independent Study.**  
No description available.  
Fall BIOL7150 S17 10763 Arranged "To Be Arranged"

**BIOL 7160. Scholarly Concentration Independent Study.**  
No description available.  
Fall BIOL7160 S11 10764 Arranged "To Be Arranged"  
Fall BIOL7160 S12 10765 Arranged "To Be Arranged"  
Fall BIOL7160 S13 10766 Arranged "To Be Arranged"  
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**BIOL 7165. Scholarly Concentration Independent Study.**  
No description available.  
Fall BIOL7165 S24 10777 Arranged "To Be Arranged"

**BIOL 7170. Academic Scholar Program.**  
No description available.

**BIOL 7171. Academic Scholar Program.**  
No description available.

**BIOL 7180. Advanced Independent Study.**  
No description available.  
Fall BIOL7180 S2A 10778 Arranged "To Be Arranged"

**BIOL 7190. International Independent Study.**  
No description available.  
Fall BIOL7190 S12 10779 Arranged "To Be Arranged"  
Fall BIOL7190 S21 10780 Arranged "To Be Arranged"  
Fall BIOL7190 S22 10781 Arranged "To Be Arranged"  
Fall BIOL7190 S24 10782 Arranged "To Be Arranged"

**BIOL 7195. Independent Study in Infectious Disease - Ghana Exchange.**  
No description available.  
Fall BIOL7195 S23 10783 Arranged "To Be Arranged"  
Fall BIOL7195 S24 10784 Arranged "To Be Arranged"

**BIOL 7196. Independent Study - Haiti Exchange.**  
No description available.  
Fall BIOL7196 S24 10785 Arranged "To Be Arranged"

**BIOL 7200. International Elective: University of Bologna (Italy).**  
No description available.  
Fall BIOL7200 S14 10786 Arranged "To Be Arranged"  
Fall BIOL7200 S22 10787 Arranged "To Be Arranged"

**BIOL 7205. International Elective: Kwame Nkrumah University (Ghana).**  
No description available.  
Fall BIOL7205 S22 10788 Arranged "To Be Arranged"  
Fall BIOL7205 S24 10789 Arranged "To Be Arranged"

**BIOL 7210. International Elective: Moi University (Kenya).**  
No description available.

**BIOL 7215. International Elective: National Cheng Kung University (Taiwan).**  
No description available.  
Fall BIOL7215 S12 10790 Arranged "To Be Arranged"  
Fall BIOL7215 S24 10791 Arranged "To Be Arranged"

**BIOL 7220. International Elective: University of Philippines.**  
No description available.

**BIOL 7225. International Elective: University of Rostock (Germany).**  
No description available.  
Fall BIOL7225 S14 10792 Arranged "To Be Arranged"

**BIOL 7230. International Elective: Technion-Israel Institute of Technology.**  
No description available.  
Fall BIOL7230 S23 10793 Arranged "To Be Arranged"  
Fall BIOL7230 S24 10794 Arranged "To Be Arranged"

**BIOL 7235. International Elective: Tokyo Women’s Medical College.**  
No description available.  
Fall BIOL7235 S14 10795 Arranged "To Be Arranged"

**BIOL 7240. International Elective: University of Tuebingen (Germany).**  
No description available.  
Fall BIOL7240 S24 10796 Arranged "To Be Arranged"

**BIOL 7245. International Elective: Zhejiang University (China).**  
No description available.

**BIOL 7246. International Elective University of Nicaragua.**  
No description available.

**BIOL 7247. International Elective University of Ghana.**  
No description available.  
Fall BIOL7247 S22 10797 Arranged "To Be Arranged"

**BIOL 7248. International Elective University of Sao Paolo (Brazil).**  
No description available.

**BIOL 7249. International Elective Kyoto University (Japan).**  
No description available.

**BIOL 7250. International Elective University of Notre Dame Haiti.**  
No description available.  
Fall BIOL7250 S24 10798 Arranged "To Be Arranged"

**BIOL 7255. International Elective EWHA Womans University (Korea).**  
No description available.

**BIOL 7260. International Elective Kurume University School of Medicine.**  
No description available.

**BIOL 7301. Seminar on Race + Health Disparities.**  
No description available.  
Fall BIOL7301 S26 10799 Arranged "To Be Arranged"

**BIOL 7600. Approved Subinternship Away.**  
No description available.  
Fall BIOL7600 S14 10800 Arranged "To Be Arranged"  
Fall BIOL7600 S23 10801 Arranged "To Be Arranged"  
Fall BIOL7600 S24 10802 Arranged "To Be Arranged"  
Spr BIOL7600 S34 20279 Arranged "To Be Arranged"  
Spr BIOL7600 S44 20280 Arranged "To Be Arranged"
MED 6040. Clinical Medicine II. This course will focus on clinical medicine, but expand beyond the patient into the population and beyond. Given the importance of population health interventions for the health of vulnerable and underserved patients, the course will focus on issues affecting these populations.

Fall MED6040 S01 19009 "To Be Arranged"

MED 6050. 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 the health of vulnerable and underserved patients, the course will focus on issues affecting these populations.

Fall MED6050 S01 19008 "To Be Arranged"

MED 6060. 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 the health of vulnerable and underserved patients, the course will focus on issues affecting these populations.

Fall MED6060 S01 19009 "To Be Arranged"

MED 6070. 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, evolutionary educational spirals - providing the knowledge, attitudes 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 Workshopping.

Fall MED6070 S01 19007 "To Be Arranged"
MED 2130. Patient Care in Complex Systems II.
This is the third of a 3 course sequence for Master of Medical Science 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, community and alternative medicine. 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 18972 Arranged 'To Be Arranged'

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 18976 Arranged 'To Be Arranged'

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 18973 Arranged 'To Be Arranged'

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 underlie disease processes.

Fall MED2170 S01 18974 Arranged 'To Be Arranged'

MED 2180. Brain Sciences and Neurological Disease.
Brain Sciences is composed of several interrelated components - Head Anatomy, Neurobiology, Neuropathophysiology, Neuropathology and Neurpharmacology. 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.

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 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 neck. This study is aided by review of prosections of the head, neck 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.

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.

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 S02 19001 Th 4:00-5:50(04) (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 19037 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 S03 19041 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 S02 19040 W 5:20-6:40(10) (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 radiotherapy treatment modalities, 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 27218 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 27213 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 18388 Arranged (E. Klein)

MED 2270B. Medical Physics Research. Research for Medical Physics

MED 2280. Nuclear Medicine Physics.
Nuclear Medical Physics - PET
Spr MED2280 S01 27217 Th 4:00-5:20 (M. Uomano)

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 27215 T 4:00-5:20 (Z. Saleh)

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 27216 T 5:25-6:35 (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 27214 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 18407 M 4:30-6:00(03) (F. Lukas)

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 American and Italian medical systems, focusing on historical structures and current issues in health care regulation. 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.

“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 online integrative science course that will supplement
the preparation of both PLME and pre-medical students for the study of
medicine in the 21st century. The course will use both didactic, small-
group, reflective and multiple-choice question based-approaches to
explore multiple areas of medicine: firearm violence, chronic kidney
disease and renal transplantation, diversity in gender and sexuality, breast
cancer and palliative care, and the opioid epidemic. Woven throughout
the course are essential and foundational antiracist themes critical
for all entering medical students. 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. Enrollment limited to 50. S/NC
mandatory.

Fall PLME1000 S01 18373 W 3:00-5:30(10) (L. Mayer)