

MEDICINE (MD)

Program Description

Contribute to SKMC's proud tradition of excellence. You will have many opportunities to develop as a leader in your profession — in clinical settings, research labs and community service. JeffMD, SKMC's curriculum, will support you by giving you sound fundamentals, combined with elements you can customize to your interests. You will find strong integration of clinical experience and science instruction throughout your four years here. In keeping with modern medical practice, you will gain the analytical skills to evaluate changing data and treatment options, sharpened emotional intelligence, and comfort working in multi-specialty teams. The study of medicine has always been one of the most deeply satisfying, exciting — and challenging — ways you could develop your talents. JeffMD deepens all these truths at SKMC.

Graduation Competencies

• Patient Care

Physicians should provide patient-centered care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

• Knowledge for Practice

Physicians should demonstrate knowledge of established and evolving biomedical, clinical, epidemiological, and social-behavioral sciences, as well as the application of this knowledge to patient care.

• Practice Based Learning & Improvement

Physicians should demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and lifelong learning.

• Interpersonal & Communication Skills

Physicians should demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals.

• Professionalism

Physicians should demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles.

• System Based Practice

Physicians should demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care.

• Interprofessional Collaboration

Physicians should demonstrate the ability to engage in an interprofessional team in a manner that optimizes safe, effective patient and population-centered care.

• Personal & Professional Development

Physicians should demonstrate the qualities required to sustain lifelong personal and professional growth.

See additional information about Graduation Competencies on the SKMC Student Resources webpage: <https://www.jefferson.edu/academics/colleges-schools-institutes/skmc/undergraduate-medical-education/student-resources.html>

Curriculum

At SKMC, our innovative curriculum prepares future doctors to learn actively and think critically as they develop core professional competencies to prepare them to make positive, impactful changes on healthcare.

Contents

Course content is provided for the information of the student. It is accurate at the time of viewing but is subject to change from time to time as deemed appropriate by Sidney Kimmel Medical College in order to fulfill its role and mission or to accommodate circumstances beyond its control. Any such changes may be implemented without prior notice and without obligation and, unless specified otherwise, are effective when made.

Accreditation

Sidney Kimmel Medical College is accredited by the Liaison Committee on Medical Education (LCME) for its medical education program leading to the Doctor of Medicine (MD) degree.

In addition, the Continuing Medical Education program is accredited by the Accreditation Council for Continuing Medical Education; and the Residency programs are accredited by the Accreditation Council for Graduate Medical Education. Thomas Jefferson University is a member of the Middle States Association of Colleges and Schools.

Credit Hours

The Liaison Committee on Medical Education (LCME) defines the program length by weeks of instruction. The LCME requires at least 130 instructional weeks of medical education leading to the M.D. degree. The SKMC program length exceeds 130 instructional weeks as outlined by the academic calendars and credit requirements specific to each medical school class year published in the SKMC Student Handbook as well as on the Office of the Registrar's website. SKMC program length is defined by the LCME requirements with calculation of equivalency to credit hours as follows:

- The curriculum is a full-time, four-year program consisting of a minimum of 130 weeks of instruction with a total of 88 semester credit hours (65 weeks) of Foundational Sciences Courses, 91 semester credit hours of Clinical Sciences Courses (65 weeks) and 21 semester credits of electives (28 weeks).
- For didactic courses, credit is awarded based on a minimum of two hours of class preparation time and independent study for each direct contact hour with faculty. For Phase 2 core clinical science courses students earn 1.5 credit hours for each week of clinical rotations. For Phase 3 core clinical science rotations, clinical science electives and research electives, students earn 1.5 credit hours for each two weeks of these courses. The student fulfills credit hour requirements through a combination of scheduled clinical time, preparation of cases, and other course requirements such as presentations or papers.

Phase 1

Phase 1 Director: Urvashi Vaid MD, MS, FACP

Phase 1 is an integrated four-course sequence during students' first and second years of medical school that encompasses basic, clinical and health system sciences. Students will be introduced to core concepts in blocks organized by organ system.

Phase 1, Year 1 Course List

Code	Title	Credits
Foundations of Medicine		
JMD 101	Foundations of Medicine I	24
JMD 102	Foundations of Medicine II	22
Scholarly Inquiry		
JMD 150	Scholarly Inquiry	3
Clinical Experience		
JMD 151	Clinical Experience	2
Humanities Selectives		
JMD 152	Humanities Selectives	1*
JMD 153	Humanities Selectives	1*

*Students are required to complete 2 credits of Humanities Selectives in Phase 1; if both credits are completed in Year 1, they are not required to take this course for credit in Year 2.

Phase 1, Year 2 Course List

Code	Title	Credits
Foundations of Medicine		
JMD 203	Foundations of Medicine III	17
JMD 204	Foundations of Medicine IV	15
Scholarly Inquiry		
JMD 250	Scholarly Inquiry	3
Humanities Selectives		
JMD 252	Humanities Selectives	1*

*Students are required to complete 2 credits of Humanities Selectives in Phase 1; if both credits are completed in Year 1, they are not required to take this course for credit in Year 2.

Phase 2

Phase 2 Director: Nina Mingioni, MD, MEd, FACP

During Phase 2, students are exposed to core clinical specialties of medicine. They will learn to evaluate patients with a variety of conditions across age, gender, and psychosocial spectra.

Students will partake in team-based patient care and learn to interpret data, build differential diagnoses, and use literature to guide treatment. Phase 2 starts with a one-week JMD 300 Transition to Clerkship course that will prepare students for the immersive experience the core clerkships offer. During Phase 2, students will rotate through four twelve-week blocks of paired clerkships:

1. Family Medicine with Psychiatry
2. Pediatrics with Obstetrics and Gynecology
3. General Surgery and subspecialties with Emergency Medicine
4. Internal Medicine with Neurology

Every six weeks, all students will return to main campus to participate in a variety of interdisciplinary activities that are a part of the JMD 301 Dimensions of Clin Med course. A summative Objective Structured Clinical Examination (OSCE) is administered at the end of Phase 2 to assess skills students acquired during core clerkships. Students are also required to take JMD 350 Scholarly Inquiry during this phase. During core clerkships and surgical selectives, students will have the opportunity to work in a variety of healthcare settings and locations, including Thomas Jefferson University Hospital and its academic

affiliates. Additional information on each academic affiliate is available in the Clinical Site Information (<https://jefferson.instructure.com/courses/42838/>) Canvas page.

Phase 2 Course List

Code	Title	Credits
JMD 300	Transition to Clerkship	1
JMD 301	Dimensions of Clin Med	1
JMD 350	Scholarly Inquiry	1
Family Medicine & Psychiatry Block		
During this twelve-week block, students will complete a six-week Family Medicine Clerkship and a six-week Psychiatry Clerkship.		
FMED 350	Family Medicine Clerkship	
PSYH 350	Psychiatry Clerkship	

Internal Medicine & Neurology Block

During this twelve-week block, students will complete two four-week blocks of Internal Medicine Clerkship (generally, four weeks at Thomas Jefferson University Hospital and four weeks at an academic affiliate hospital), and a four-week Neurology Clerkship. Two four-week blocks of Internal Medicine need not be completed contiguously and may have the Neurology clerkship scheduled between them.

MED 350	Internal Medicine Clerkship
NEUR 350	Neurology Clerkship

Obstetrics/Gynecology & Pediatrics Block

During this twelve-week block, students will complete a six-week Obstetrics and Gynecology Clerkship and a six-week Pediatrics Clerkship.

OBGY 350	ObGyn Clerkship
PED 350	Pediatrics Clerkship

Surgery, Surgical Subspecialty, & Emergency Medicine Block

During this block, students will complete a six-week General Surgery Clerkship, a three-week Surgical Subspecialty rotation (Anesthesia, Neurosurgery, Orthopedics, Otolaryngology, Ophthalmology, or Urology), and a three-week Emergency Medicine Clerkship.

EMRG 350	Emergency Medicine Clerkship
SURG 350	Surgery Clerkship

Surgical Selectives

ANES 352	Anesthesiology Selective
NSRG 352	Neurosurgery Selective
OPHT 352	Ophthalmology Selective
ORTH 352	Orthopedic Surgery Selective
OTOL 352	Otolaryngology Selective
UROL 352	Urology Selective

Phase 3

Phase 3 Director: Shruti Chandra, MD, MEHP

During Phase 3, you will have the opportunity to work on more advanced core competencies as well as develop knowledge and skills specific to your career pathway. With the successful completion of Phase 3, you will be well on your way to transitioning to your new role as an intern.

Phase 3 requirements are as follows: 4-week Medicine Inpatient Subinternship, 4-week Outpatient Experience, 2-week Critical Care Experience, 2-week Advanced Basic Science course, 4 weeks of Gateway to Internship split into Gateway to Internship A and Gateway to Internship B courses, the longitudinal Scholarly Inquiry course, and 28 weeks of electives. A summative Objective Structured Clinical Examination (OSCE) is administered during Phase 3 to assess skills students acquired during medical school.

All two-week courses as well as a few other courses are graded Pass/Fail. All four-week clinical courses are graded using tiered clinical grading of Honors/High Pass/Pass/Fail. For each course, the grading scale is listed below following the course description.

Phase 3 Requirements

Outpatient Experience

The goal of the outpatient experience is to expose students to the principles of outpatient medicine in the ambulatory care setting. Students will assist in the evaluation and management of patients in the outpatient setting. Students will acquire and utilize clinical data to address clinical problems, prioritize clinical problems, and develop/manage treatment plans. The following selectives fulfill the requirement. Not all courses may be offered each academic year.

- ANES 405 Chronic Pain Management
- DERM 401 Dermatology Subinternship
- FMED 401 Outpatient Sub-Internship
- FMED 406 Geriatrics Subinternship
- FMED 413 Maternal-Child Health (MCH)
- MED 402 Outpatient Sub Internship
- MED 450 Nephrology Outpatient Elective
- MED 452 Cardiology Outpatient Elective
- MED 459 Outpatient Pulmonary Elective
- MED 478 Hepatology
- MED 489 Rheumatology
- MED 490 Women's Health
- MED 495 Oncology
- NSRG 464 Outpatient Neurosurgery
- OBGY 402 Outpatient Subinternship
- OBGY 411 Maternal Fetal Outpatient
- ORTH 403 Musculoskeletal Outpatient Subl
- PED 401 Outpatient Subinternship
- PED 427 Adolescent Medicine
- PSYH 405 Outpatient Sleep Disorders Med
- PSYH 408 Outpatient Addictions Psych
- SURG 451 Outpatient Plastic Surgery
- SURG 461 Outpatient Bariatrics Elective
- UROL 452 Urology Outpatient Experience

Medicine Inpatient Subinternship

The Medicine Inpatient Subinternship experience seeks to build on patient evaluation, presentation, and documentation skills learned in Phase 2. Students will be challenged to build complex differential diagnoses, prioritize problems, and propose management plans for their patients. High-level functioning as a member of an internal medicine team is expected, with special focus given to topics such as building a task list, requesting consultation, transitioning care via handoff and discharge, sensitive and difficult patient communication, and interdisciplinary collaboration. This requirement must be fulfilled through MED 401. For students in the Family Medicine Pathway only,

this requirement can be fulfilled by FMED 402. For students in the Pediatrics Pathway only, PED 402 can fulfill this requirement.

MED 401 Inpatient Subinternship

Students in the listed pathway can use the following course as an alternative to MED 401:

- Family Medicine Pathway: FMED 402 Inpatient Subinternship (Jefferson and Christiana)
- Pediatrics Pathway: PED 402 Inpatient Subinternship

Critical Care Experience

The Phase 3 Critical Care experience is a two-week, hands-on introduction to the practice of critical care medicine. Students will be active members of the multidisciplinary critical care team, participate in daily rounds, and assist in the evaluation and management of critically ill patients. Students will be assigned to one of several intensive care units and may request a specific unit of their choice. However, assignments to particular intensive care units are not guaranteed. All ICUs, regardless of specialty, will expose students to the core aspects of critical care medicine including the recognition and evaluation of life-threatening illness, the management of organ failure, and the use of specific life-support techniques such as mechanical ventilation, circulatory support, and organ replacement therapies. Other key concepts common to all ICUs include multidisciplinary collaboration between different healthcare providers, attention to issues surrounding end-of-life care, and the importance of communication with patients and families. The following selectives fulfill the requirement:

- ANES 486 Cardiac Surgery Intensive Care
- MED 458 Cardiac Critical Unit
- MED 469 Medical Critical Care
- PED 403 Neonatal Intensive Care Nurs.
- PED 480 Pediatric Critical Care
- SURG 485 Surgical Intensive Care

Advanced Basic Science

The goal of the Advanced Basic Science requirement is to foster appreciation of integration between basic science and clinical care. This course will review fundamentals of basic science concepts. Students will utilize literature to foster critical thinking with regards to clinical care, conduct a primary literature review, query the literature to obtain evidence to support clinical decision-making per standard of care, and query the literature to support a decision in which a clinical scenario does not meet criteria for standard of care (i.e. failing standard therapy, or not a candidate for standard therapy). Students will investigate cutting-edge science for alternatives of care. The following selectives fulfill the requirement:

- JMD 461 Advanced Concepts in Microbiology (hybrid)
- JMD 462 Advanced Study of Transfusion Medicine
- JMD 463 Advanced Study of Musculoskeletal Diseases and Disorders
- JMD 464 Advanced Study of Neurological Diseases and Disorders
- JMD 465 Clinically Actionable Molecular Pathology
- JMD 466 Integrative Medicine
- JMD 467 Clinical Pharmacology
- JMD 468 Approaches to Pain and Addiction
- JMD 469 Blood
- JMD 470 Advanced Concepts in Immunology
- JMD 471 Metabolic Diseases

- JMD 474 Advanced Diagnostics
- JMD 476 Pandemic Preparedness
- JMD 480 Anatomy & Path: Musculoskeletal
- JMD 482 Anatomy & Path: Head and Neck
- JMD 483 Anatomy & Path: Thorax
- JMD 484 Anatomy & Path: Abdomen
- JMD 485 Anatomy & Path: Pelvis/Perineum

Gateway to Internship

The goal of the Gateway to Internship courses is to provide students with the tools necessary to make the transition from medical school to internship and residency, regardless of their future specialty. During these courses, students will be exposed to didactic sessions covering core management topics and then use this information in simulated patient settings and small group evidence-based medicine discussions. They will learn the art of sign-out and cross-covering while managing the stresses of multitasking as an intern. They will demonstrate their newly acquired skills with simulation and standardized patient encounters. Students will also acquire skills on health literacy, transitions of care and end of life/death issues. Additionally, sessions and activities on how to manage stress/anger, maintaining personal health and nutrition, and work/life balance during residency will be included. The curriculum will be tailored specifically to each pathway.

- JMD 494 Gateway to Internship A
- JMD 495 Gateway to Internship B

Scholarly Inquiry

All students will be required to complete a 1-credit longitudinal Scholarly Inquiry course. This will include in-class sessions during Gateway to Internship weeks as well as a variety of scholarly activities.

- JMD 450 Scholarly Inquiry

Phase 3 Course Limits

Phase 3 Electives

Phase 3 is comprised of 12 four-week curricular blocks (48 weeks).

- 12 weeks requirements:
 - 4 weeks Outpatient Experience
 - 4 weeks Medicine Inpatient Subinternship
 - 2 weeks Critical Care
 - 2 weeks Advanced Basic Science
- 28 weeks Electives
- 8 weeks Flex/Unscheduled Time (maximum)
- Longitudinal Scholarly Inquiry course throughout Phase 3

In addition to the course requirements above, all Phase 3 students must pass a minimum of 28 weeks of Phase 3 electives. Students may choose their electives from the Phase 3 catalog, however, must ensure they do not exceed the limits on courses that utilize pass/fail grading.

Pass/Fail Limits

Students can take a maximum of 16 weeks of Pass/Fail (P/F) courses, including:

- 2 weeks of ABS (requirement)
- 2 weeks of Critical Care (requirement)
- 12 weeks of P/F electives

Within the 12 weeks of P/F electives, you cannot exceed:

- Research (max of 8 weeks)
- 2-week courses (max of 8 weeks)
- 4-week online courses (max of 8 weeks)

Phase 3 Repeated Courses

Students may repeat the same course in Phase 3 for credit with the following limits:

- Online courses may not be repeated
- Advanced Basic Science courses may not be repeated
- All other Phase 3 courses may be repeated a maximum of two (2) times at TJUH or a SKMC affiliate location
- Students may complete a maximum of three (3) away rotations (XXX 498) in the same department

Phase 3 Courses

ANESTHESIOLOGY

- ANES 401 General Anesthesia Sub-I
- ANES 402 Regional Anesthesia
- ANES 403 Acute Pain Management
- ANES 405 Chronic Pain Management
- ANES 407 Pediatric Anesthesiology
- ANES 425 Research- Anesthesiology
- ANES 486 Cardiac Surgery Intensive Care

DERMATOLOGY & CUTANEOUS BIOLOGY

- DERM 401 Dermatology Subinternship
- DERM 402 Basic Dermatopathology
- DERM 425 Research- Dermatology
- DERM 481 Dermatology Elective

EMERGENCY MEDICINE

- EMRG 401 Emergency Medicine Sub-I
- EMRG 405 Point-of-Care Ultrasound
- EMRG 406 Wilderness & Environmental Med
- EMRG 425 Research- Emergency Med
- EMRG 481 Emergency Medicine Elective

FAMILY & COMMUNITY MEDICINE

- FMED 401 Outpatient Sub-Internship
- FMED 402 Inpatient Sub-Internship
- FMED 405 Palliative Care
- FMED 406 Geriatrics Subinternship
- FMED 409 Homeless Care Continuum
- FMED 413 Maternal-Child Health (MCH)
- FMED 419 Immigrant Health Elective
- FMED 421 Primary Care of People w IDD
- FMED 425 Research - Family Medicine
- FMED 427 Outpatient Community Experienc
- FMED 429 Intro to Healthcare Plans
- ORTH 403 Musculoskeletal Outpatient Subl

HUMANITIES

- JMD 441 The Medical Memoir
- JMD 442 Problems in the History of Med

INTEGRATIVE MEDICINE & NUTRITIONAL SCIENCES

- INT 425 Research
- INT 495 Integrative Medicine
- JMD 466 Integrative Medicine

MEDICAL EDUCATION

- DME 425 Research-Anatomy

MEDICINE

- MED 401 Inpatient Subinternship
- MED 402 Outpatient Sub Internship
- MED 425 Research- Medicine
- MED 431 Hematology
- MED 433 Hematology/Oncology
- MED 434 Hemat Malig/Bone Marrow Trans
- MED 441 Nephrology
- MED 450 Nephrology Outpatient Elective
- MED 452 Cardiology Outpatient Elective
- MED 454 Correctional Medicine
- MED 457 Cardiology
- MED 458 Cardiac Critical Unit
- MED 459 Outpatient Pulmonary Elective
- MED 460 Addiction Multidiscipl Service
- MED 467 Pulmonary
- MED 469 Medical Critical Care
- MED 473 Infectious Disease
- MED 474 Adv Physical Diag
- MED 478 Hepatology
- MED 479 Gastroenterology
- MED 482 Heart Failure Elective
- MED 485 Nutrition
- MED 488 Intro to Medicine-Pediatrics
- MED 489 Rheumatology
- MED 490 Women's Health
- MED 491 Endocrinology
- MED 492 Perioperative and Consult Med
- MED 495 Oncology

NEUROLOGY

- NEUR 425 Research- Neurology
- NEUR 431 Advanced Neurology
- NEUR 481 Neurology Elective

NEUROLOGICAL SURGERY

- NSRG 401 Neurosurgery Subinternship
- NSRG 425 Research- Neurosurgery
- NSRG 464 Outpatient Neurosurgery

OBSTETRICS & GYNECOLOGY

- OBGY 401 Inpatient Sub-Internship
- OBGY 402 Outpatient Subinternship
- OBGY 408 Gynecologic Oncology
- OBGY 409 Maternal Fetal Medicine
- OBGY 411 Maternal Fetal Outpatient
- OBGY 413 Family Planning
- OBGY 415 Urogynecology

- OBGY 425 Research- OBGYN
- OBGY 480 Vulvovaginal Clinic Elective
- OBGY 481 Reproductive Endocrinology
- OBGY 482 Postpartum Care

OPHTHALMOLOGY

- OPHT 401 Ophthalmology Senior Elective
- OPHT 407 Basic Ocular Pathology
- OPHT 425 Research- Ophthalmology
- OPHT 481 Ophthalmology Elective
- OPHT 482 Pediatric Ophthalmology

ORAL & MAXILLOFACIAL SURGERY

- OMFS 401 Oral & Max Surgery Sub-I

ORTHOPAEDIC SURGERY

- ORTH 401 Orthopaedic Surgery Sub-I
- ORTH 403 Musculoskeletal Outpatient Subl
- ORTH 425 Research- Orthopedics
- ORTH 482 Hand Surgery

OTOLARYNGOLOGY, HEAD & NECK SURGERY

- OTOL 401 Otolaryngology Subinternship
- OTOL 425 Research- Otolaryngology
- OTOL 440 Advanced Otolaryngology Elect

PATHOLOGY & GENOMIC MEDICINE

- PATH 401 General Pathology
- PATH 402 Hematopathology
- PATH 404 Postmortem Pathology
- PATH 425 Research- Pathology
- PATH 481 General Pathology Elective

PEDIATRICS

- PED 401 Outpatient Subinternship
- PED 402 Inpatient Subinternship
- PED 403 Neonatal Intensive Care Nurs.
- PED 404 Neurodevelopmental Pediatrics
- PED 410 Adol/Ped Gastroenterology
- PED 411 Pediatric Allergy
- PED 413 Pediatric Cardiology
- PED 415 Pediatric Neurology
- PED 417 Pediatric Nephrology
- PED 418 Pediatric Rheumatology
- PED 419 Pediatric Hematology/Oncology
- PED 421 Pediatric Endocrinology
- PED 422 Pediatric Otolaryngology
- PED 425 Research- Pediatrics
- PED 427 Adolescent Medicine
- PED 428 Clinical Genetics
- PED 429 Ped Palliative Care
- PED 433 Pediatric Rehabilitation Med
- PED 471 Advanced Topics in Pediatrics
- PED 472 Pediatric Nutrition
- PED 473 Pediatric Infectious Disease
- PED 474 Health Inequities in Peds
- PED 475 Pediatric Chronic Care

- PED 480 Pediatric Critical Care
- PED 481 Pediatric Pulmonary Medicine
- PED 482 Pediatric Ophthalmology
- PED 486 Pediatric Urology
- PED 487 Pediatric Orthopedics
- PED 488 Pediatric Weight Management

PSYCHIATRY & HUMAN BEHAVIOR

- PSYH 401 Adult Inpatient Psych Sub-I
- PSYH 405 Outpatient Sleep Disorders Med
- PSYH 408 Outpatient Addictions Psych
- PSYH 410 Suicide Prevention
- PSYH 412 Dialectical Behavior Therapy
- PSYH 425 Research- Psychiatry
- PSYH 431 Consult & Liaison Psychiatry

RADIATION, ONCOLOGY & NUCLEAR MEDICINE

- RONM 401 Radiation Oncology Sub-I
- RONM 425 Research- Radiation & Oncology

RADIOLOGY

- RAD 401 Diagnostic Radiology
- RAD 403 Neuroradiology
- RAD 406 Cross Sectional Imaging
- RAD 407 Interventional Radiology
- RAD 408 Musculoskeletal Radiology
- RAD 425 Research- Radiology
- RAD 483 Pediatric Radiology
- RAD 486 Cross Sectional Elective
- RAD 487 Interventional Rad Elective
- RAD 488 Musculoskeletal Rad Elective

REHABILITATION MEDICINE

- RHAB 401 Senior Elective in Rehab Med
- RHAB 425 Research- Rehabilitation
- RHAB 481 Rehabilitation Med Elective
- ORTH 403 Musculoskeletal Outpatient Subl

SURGERY

- SURG 425 Research- Surgery
- SURG 449 Gross General Surgery
- SURG 451 Outpatient Plastic Surgery
- SURG 452 General Surgery Elective
- SURG 453 Thoracic Surgery
- SURG 454 Experience in Clin Transplant
- SURG 455 Plastic Surgery Elective
- SURG 456 Cardiac Surgery
- SURG 458 Diseases of the Breast
- SURG 459 Colon & Rectal Surgery
- SURG 461 Outpatient Bariatrics Elective
- SURG 462 Outpatient Vascular Medicine
- SURG 475 Pediatric Surgery
- SURG 480 Trauma Surgery
- SURG 481 Preadmission Testing
- SURG 485 Surgical Intensive Care
- SURG 490 Peripheral Vascular Surgery

UROLOGY

- UROL 401 Senior Elective in Urology
- UROL 405 Urologic Oncology
- UROL 406 Endourology
- UROL 407 Genitourinary Reconstruction
- UROL 425 Research- Urology
- UROL 430 Advanced Topics in Urology
- UROL 452 Urology Outpatient Experience

ADVANCED BASIC SCIENCE COURSES

- JMD 461 Adv. Concepts in Microbiology
- JMD 462 Adv. Study of Transfusion Med.
- JMD 463 Adv. Study of Muscul. Diseases
- JMD 464 Adv. Study of Neuro. Diseases
- JMD 465 Clinic. Action. Mol. Pathology
- JMD 466 Integrative Medicine
- JMD 467 Clinical Pharmacology
- JMD 468 Approaches to Pain & Addict.
- JMD 469 BLOOD
- JMD 470 Advanced Concepts- Immunology
- JMD 471 Metabolic Diseases
- JMD 474 Advanced Diagnostics
- JMD 476 Pandemic Preparedness
- JMD 480 Anatomy&Path- Musculoskeletal
- JMD 482 Anatomy&Path- Head and Neck
- JMD 483 Anatomy&Path- Thorax
- JMD 484 Anatomy&Path- Abdomen
- JMD 485 Anatomy&Path- Pelvis/Perineum

SCHOLARLY INQUIRY

- JMD 425 Research - Scholarly Inquiry
- JMD 428 Independent Elective
- JMD 450 Scholarly Inquiry

GATEWAY TO INTERNSHIP

- JMD 494 Gateway to Internship A
- JMD 495 Gateway to Internship B