



CAMPBELL
UNIVERSITY

Jerry M. Wallace
School of Osteopathic Medicine

Curriculum-at-a-Glance

The mission of the Campbell University School of Osteopathic Medicine (CUSOM) is to educate and prepare community-based osteopathic physicians in a Christian environment to care for the rural and underserved populations in North Carolina, the Southeastern United States and the nation.

CUSOM faculty, staff and students value: teamwork, leadership, professionalism, integrity, diversity, and the ethical treatment of all humanity.

We accomplish our mission through a carefully planned systems-based curriculum incorporating case-based lectures to facilitate osteopathic clinical integration. Vertical and horizontal integration facilitate linkage between course and clinical work across the four years of the curriculum.

Vertical integration refers to the interweaving of clinical skills and knowledge into the basic science years and, in turn, reinforcing basic science concepts as they apply during the clinical years. Horizontal integration refers to identifying concepts or skills, particularly those that are clinically relevant, that cut across the basic sciences, and then using these as an integrated focus for presentations, clinical scenarios, and course materials.

CUSOM faculty members develop the curriculum through the Curriculum Committee with input from the Department Chairs and Course Directors. Integration is ensured by Block Leaders and Block Teams of discipline experts overseeing appropriateness of content.

YEARS ONE AND TWO

The CUSOM curriculum is highly integrated to provide both a strong core of biomedical principles and a robust foundation in clinical sciences including osteopathic principles, clinical skills, and professionalism. Content is delivered in 9-week blocks over four semesters. The week between Blocks is time for students to have vacation, participate in medical mission trips, or remediate a course when warranted.

Blocks one and two cover fundamental basic sciences through a set of courses designed to provide optimal integration while providing clarity on discipline-specific concepts:

Block 1

Cell Biology and Biochemistry
Microbiology and Immunology
Anatomy and Lab

Block 2

Pharmacology
Physiology
Pathology
Anatomy and Lab

Blocks three through eight integrate basic and clinical sciences through an organ system approach, covering the clinical presentations and underlying pathophysiology of common disease states.

Osteopathic principles are integrated throughout, as well as covered in depth in the longitudinal Osteopathic Manipulative Medicine course. Interviewing skills, physical diagnosis, and clinical reasoning are taught in a longitudinal Clinical Skills series. Epidemiology, evidence-based medicine, and research skills are included in Foundations of Medical Practice, while the Professional Core Competencies course addresses medical ethics, humanities, health systems, global health, and professionalism.

MS-1 and MS-2 Systems-Based Curriculum General Overview:

YEAR 1			
SEMESTER 1		SEMESTER 2	
Block 1	Block 2	Block 3*	Block 4*
Integrated Basic Science and Clinical Courses	Integrated Basic Science and Clinical Courses	Musculoskeletal System	Neuroscience Psychiatry

YEAR 2			
SEMESTER 1		SEMESTER 2	
Block 5*	Block 6*	Block 7*	Block 8*
Cardiovascular System Respiratory System	Hematology Dermatology Renal System	Gastrointestinal System Endocrine System	Reproductive System Clinical Applications of Biomedical Sciences Introduction to Clinical Clerkships

*Basic science content is integrated into each System throughout all 8 Blocks.

MS-1 sample week

CAMPBELL UNIVERSITY School of Osteopathic Medicine		Block 1 - Week 1 - 2017 Block Leaders: Dr. Kuo / Dr. Powers / Dr. Terreberry					
Time	Monday, July 31, 2017	Tuesday, August 01, 2017	Wednesday, August 02, 2017	Thursday, August 03, 2017	Friday, August 04, 2017	Time	
08:00	Cell Biology/Biochemistry 01 Water, pH and Buffers Dr. Traore	Cell Biology/Biochemistry 05 Cell Membrane Dr. Danellson	Cell Biology/Biochemistry 08 Transcription Dr. Lushia	Cell Biology/Biochemistry 11 Protein Trafficking and Degradation Dr. Lushia	Integrated Quiz 1 7/31/17 - 8/2/17	8:00	
08:50	Cell Biology/Biochemistry 02 Cell Structure Dr. Danellson	Cell Biology/Biochemistry 06 Nucleic Acid Chemistry and Chromatin Dr. Lushia	Cell Biology/Biochemistry 09 Translation/Post-translation Modifications Dr. Lushia	Cell Biology/Biochemistry 12 Control of Gene Expression Dr. Lushia		Study Techniques Development 1	8:30
09:00	Cell Biology/Biochemistry 03 Amino Acids and Peptides Dr. Lushia	Cell Biology/Biochemistry 07 DNA Replication and DNA Repair Dr. Lushia	Cell Biology/Biochemistry 10 Cytoskeleton and Cellular Motors Dr. Danellson	Cell Biology/Biochemistry 13 Molecular Techniques in Medicine Dr. Traore	Clinical Skills Case 1 Clinical Case	9:00	
09:50	Cell Biology/Biochemistry 04 Protein Structure and Function Dr. Lushia	OMM 01 Osteopathic Principles & Tenets Dr. Motyka	Microbiology/Immunology 01 Introduction to Medical Microbiology and Normal Microbiota Dr. Kuo	Cell Biology/Biochemistry 14 Myoglobin and Hemoglobin Dr. Traore		10:30	
11:00	Lunch	Lunch	Lunch	Microbiology/Immunology 02 Introduction to Infectious Diseases Dr. Kuo		11:30	
12:00					Quiz Review	12:00	
12:50	Anatomy 01 Anatomical Terminology Dr. Mitchell	OMM Lab 1 Palpation, Landmarks, Somatic Dysfunction	ExamSoft Training Review of ExamSoft and Mock Exam	Grand Rounds 12:30 - 13:30 Clinical Skills 1	Study Time / ExamSoft Questions to Med Ed White Coat Fitting/ Study Time	12:30	
13:00						13:30	
13:50	Empathy Survey Dr. Newton	GROUP A	GROUP B	Professional Etiquette Dr. Mann		Study Time / ExamSoft Questions to Med Ed White Coat Fitting/ Study Time	
14:00	Study Time EVEN TABLES	ExamSoft Training	OMM Lab 1	Clinical Skills Lab 1			
14:50	ODD TABLES	Review of ExamSoft and Mock Exam	Palpation and Principles Exercises	Professional Etiquette			
15:00	Study Time ODD TABLES	GROUP A	GROUP B	GROUP A			
15:50		Empathy Survey Dr. Newton		Clinical Skills Lab 1			
16:00				Professional Etiquette			
16:50		GROUP A	GROUP B	GROUP B			
17:30						17:30	

Course Directors: Anatomy-Dr. Mitchell; Cell Biology/Biochemistry-Dr. Traore; Clinical Skills-Dr. Mann/Halm; FMP-Dr. Brannan; Microbiology/Immunology-Dr. Kuo; OMM-Dr. Motyka; PCC-Dr. Lowe-Payne & Mr. Short

Week 1

Morning lecture/discussions are complemented by afternoon labs and skills sessions, with embedded study time. Osteopathic Manipulative Medicine (OMM) and other clinical skills are taught longitudinally throughout the two years in a progression designed to integrate with and provide seamless entry into the MS-3 and MS-4 years. Content is presented by physicians and basic scientists incorporating team teaching and team learning.

Campbell University places emphasis on interprofessional education (IPE) of health professions students. Entering CUSOM students participate in an introductory IPE event with pharmacy, physician assistant, physical therapy, nursing and other students within the first Block. Options for additional IPE experiences include case conferences, online activities, topic-based discussion groups, and clinical site-based experiences.

MS-2 sample week

CAMPBELL UNIVERSITY SCHOOL OF OSTEOPATHIC MEDICINE		Block 5 - Week 1 - 2017 Block Leaders: Dr. Powers / Dr. Terreberry				
Time	Monday, July 31, 2017	Tuesday, August 01, 2017	Wednesday, August 02, 2017	Thursday, August 03, 2017	Friday, August 04, 2017	Time
08:30 - :30	CABS - I - Exam	Cardiovascular 1	Cardiovascular 7	Cardiovascular 13	Quiz 1	08:30
		Common Cardiovascular Presentations Dr. Stewart	Atherosclerosis - Lipid Disorders - Pathophysiology Dr. Traore	Hypertension - Pathophysiology Dr. Danelisen	8/1/17 - 8/2/17 & Quiz Review PCC 1	09:00
09:20 - :30		Cardiovascular 2	Cardiovascular 8	Cardiovascular 14	Legal Concepts in Medicine Sarah Bowman	09:50
		Cardiovascular Anatomy Review and Imaging Drs. Mitchell / Larson	Drugs for Dyslipidemias I - Pharmacology Dr. Li	Angiotensin Inhibitors - Pharmacology Dr. Li	PCC 2	10:00
10:20 - :30	200 Questions from USMLE First Aid and USMLE Pharm Cards	Cardiovascular 3	Cardiovascular 9	Cardiovascular 15	Treating the Critically Ill Patient - Legal Aspects Sarah Bowman	10:50
		Contractile and Regulatory Proteins in Cardiomyocytes Dr. Traore	Drugs for Dyslipidemias II - Pharmacology Dr. Li	Diuretics - Pharmacology Dr. Li	FMP 1	11:00
11:20 - :30		Cardiovascular 4	Cardiovascular 10	OMM 1	Research Design Dr. Ahlawadzi	11:50
		Cardiac Cycle Dr. Danelisen	Clinical Management of Lipid Disorders Dr. Pennings	SDL: Osteopathic Considerations in Cardiology Dr. Smutny	FMP 2	12:00
12:30 - :30	Lunch	Lunch	Grand Rounds	Lunch	Assessing Methodological Quality Dr. Ahlawadzi	12:50
13:20 - :30	Clinical Skills Lab 1	Cardiovascular 5	Cardiovascular 11	OMM Lab 1	Lunch	13:00
		Hemodynamics Dr. Danelisen	Cardiac Electrophysiology Dr. Danelisen	Diagnosis and Treatment of Thoracic Spine, OA-C2 Junction, Thoracic Inlet, 1st Rib, and Clavicle GROUP A	Study Time GROUP B	13:50
14:20 - :30		Cardiovascular 6	Cardiovascular 12			
		Lipid Structure - Biochemistry Dr. Traore	Basic EKG Dr. Stewart	GROUP A	OMM Lab 1	
15:20 - :30	Clinical Skills Lab 4 Stations (1 Hr Each) 1 Hr Empathy Survey Plus SDL					
16:20 - :30		Study Time	Study Time	Study Time GROUP A	Diagnosis and Treatment of Thoracic Spine, OA-C2 Junction, Thoracic Inlet, 1st Rib, and Clavicle GROUP B	
17:20 - :30						
18:00						18:00

Course Directors: Cardiology - Drs. Stewart/Danelisen; CABS I - Dr. Terreberry & Mr. Vaskalis; Respiratory - Drs. Hamrick & Mann; Clinical Skills - Drs. Mann & Halm; FMP - Drs. Brannen; OMM - Dr. Gish; PCC - Dr. Cacioppo & Mr. Short

Week 1

Evaluation includes integrated exams, quizzes and end-of-block and end-of-year evaluations. Weekly quizzes, along with team-based clinical case conferences, help students remain on top of material presented during the week, and provide faculty with contemporaneous assessment of student progress.

YEARS THREE AND FOUR

CUSOM students in years three and four will be assigned to regional sites throughout North Carolina. Clinical experiences occur within hospital sites for inpatient experiences, in ambulatory practices, and in acute care facilities. All students will spend time in rural small and critical access hospitals for an underserved care experience. The didactic and online curriculum is provided by CUSOM. Sample rotation schedules for years 3 and 4 are illustrated below. Time distribution reflects the mission to prepare primary care physicians for underserved areas, while preparing students to enter residency in any specialty.

MS-3 Clinical Blocks

MS-3	6/20 - 7/15	7/25 - 7/29	8/1 - 8/26	8/29 - 9/23	9/26 - 10/21	10/24 - 11/18	11/21 - 12/16	12/19 - 1/13	1/16 - 2/10	2/13 - 3/10	3/13 - 4/7	4/10 - 5/5	5/8 - 6/2
Student	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12	Block 13
A	SIM	Hosp. Orientation	IM	IM	MS	Sur	R/U	OBG	Ped	Psy	FM	Elect	Vac
B	SIM	Hosp. Orientation	Vac	IM	IM	M/S	Sur	R/U	OBG	Ped	PSY	FM	Elect
C	SIM	Hosp. Orientation	Elect	Vac	IM	IM	M/S	Sur	R/U	OBG	Ped	Psy	FM
D	SIM	Hosp. Orientation	FM	Elect	Vac	IM	IM	M/S	Sur	R/U	OBG	Ped	Psy
E	SIM	Hosp. Orientation	Psy	FM	Elect	Vac	IM	IM	MS	Sur	R/U	OBG	Ped
F	SIM	Hosp. Orientation	Ped	Psy	FM	Elect	Vac	IM	IM	MS	Sur	R/U	OBG
G	SIM	Hosp. Orientation	OBG	Ped	Psy	FM	Elect	Vac	IM	IM	MS	Surg	R/U
H	SIM	Hosp. Orientation	R/U	OBG	Ped	Psy	FM	Elect	Vac	IM	IM	MS	Sur
I	SIM	Hosp. Orientation	Sur	R/U	OBG	Ped	Psy	FM	Elect	Vac	IM	IM	MS
J	SIM	Hosp. Orientation	MS	Sur	R/U	OBG	Ped	Psy	FM	Elect	Vac	IM	IM
K	SIM	Hosp. Orientation	IM	MS	Sur	R/U	OBG	Ped	Psy	FM	Elect	Vac	IM

Key: VAC = Vacation; IM = Internal Medicine; MS = Medical Selective; SUR = Surgery; R/U = Rural/Underserved; OBG = Obstetrics/Gynecology; PED = Pediatrics; PSY = Psychiatry; FM = Family Medicine; ELEC = Elective; SIM MED = Simulation Medicine.

MS-4 Clinical Blocks

MS-4	6/5-6/30	7/3-7/28	7/31-8/25	8/28-9/22	9/25-10/20	10/23-11/17	11/20-12/15	12/18-1/12	1/15-2/9	2/12-3/9	3/12-4/6	4/9-5/4
Student	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12
A	Residency Development	MS	Elec	PCS	MS	ER	Elec	SS	Elec	Ger	Elec	Vac
B	Residency Development	MS	MS	Elec	PCS	Elec	ER	Elec	SS	Elec	Ger	Vac
C	Residency Development	Elec	MS	MS	Elec	PCS	Ger	ER	Elec	SS	Elec	Vac
D	Residency Development	Ger	Elec	MS	MS	Elec	PCS	Elec	ER	Elec	SS	Vac
E	Residency Development	Elec	Ger	Elec	MS	MS	Elec	PCS	SS	ER	Elec	Vac
F	Residency Development	SS	Elec	Ger	Elec	MS	MS	Elec	PCS	Elec	ER	Vac
G	Residency Development	Elec	SS	Elec	Ger	Elec	MS	MS	Elec	PCS	ER	Vac
H	Residency Development	ER	Elec	SS	Elec	Ger	Elec	MS	MS	Elec	PCS	Vac
I	Residency Development	PCS	ER	Elec	SS	Elec	Ger	Elec	MS	MS	Elec	Vac
J	Residency Development	PCS	Elec	ER	Elec	SS	Elec	Ger	Elec	MS	MS	Vac
K	Residency Development	Elec	PCS	MS	ER	Elec	SS	Elec	Ger	Elec	MS	Vac

Key: VAC = Vacation; MS = Medical Selective; ELEC = Elective; ER = Emergency Medicine; PCS = Primary Care Selective; GER = Geriatrics; SS = Surgical Selective.

REGIONAL CLINICAL SITES



Region	Locations - Clinical Campus
	Lumberton (Robeson County)
1	Southeastern Health
	Fayetteville (Cumberland County)
	Cape Fear Valley Medical Center
2	Fayetteville VA Medical Center
	Raleigh (Wake County)
3a	WakeMed Hospitals
	Harnett (Harnett County)
	Harnett Health System
3b	CommWell Health
	Charlotte (Rowan and Mecklenburg Counties)
	Novant Rowan Regional Medical Center
	Novant Huntersville Medical Center
4	Salisbury VA Medical Center
	Goldsboro (Sampson, Wayne, and Lenoir Counties)
	Wayne Memorial Hospital
	Sampson Regional Medical Center
	Lenoir Memorial Hospital
5	Cherry Hospital
	Morehead City (Carteret, Onslow, and Craven Counties)
	Carteret General Hospital
	Onslow Memorial Hospital
6	CarolinaEast Medical Center

Site	Location	3 rd Year Assigned Students	4 th Year Assigned Students
1	Lumberton	40	40
2	Fayetteville	40	40
3a/3b	Raleigh/Lillington	33	33
4	Salisbury	22	22
5	Goldsboro	22	22
6	Morehead City	TBD	TBD

GRADUATE MEDICAL EDUCATION

CUSOM strives to identify a residency position for each graduate. The Associate Dean for Postgraduate Affairs is tasked with ensuring graduate placement, and Regional Deans are in place to oversee student rotations and assist in the development of residency programs.

To date, CUSOM has assisted in the development of over 360 new CMS-funded residency positions in programs at the following organizations:

Campbell University: 6 Positions

Sports Medicine (3 Positions)
Neuromuscular Medicine +1 (3 positions)

Novant Health Huntersville Medical Center: 18 Positions

Family Medicine (18 Positions)

Cape Fear Valley Health: 113 Positions

Pediatrics (18 positions)
Emergency Medicine (16 positions)
Internal Medicine (45 positions)
Ob/Gyn (8 positions)
Traditional Rotating Internship: (26 positions)

Harnett Health: 55 Positions

Traditional Rotating Internship (13 positions)
Family Medicine (18 positions)
Internal Medicine (24 positions)

Sampson Regional Medical Center: 34 Positions

Traditional Rotating Internship (10 Positions)
Family Medicine (18 Positions)
Dermatology (6 Positions)

Southeastern Health: 92 Positions

Traditional Rotating Internship: (13 positions)
Internal Medicine: (39 positions)
Family Medicine: (24 positions)
Emergency Medicine (16 positions)

GRADES

Grading Scale						
MS-1 and MS-2		QP	MS-3 and MS-4 Traditional Rotation Grades		Other Grades	
A	90-100 ^a	3.0	H-H	Honors	I	Incomplete
B	80-89	3.0	H-HP	Honors	IP	In Progress
C	70-79	2.0	HP-HP	High Pass	W	Withdraw
C*	70	2.0	H-P	High Pass		
F	<70	0.0	HP-P	High Pass		
P	≥70	4.0	P-P	Pass		
P*	70	2.0	PC*	Pass Clinical		
			FC	Fail Clinical		
^a The maximum percentage cannot exceed 100. Percentage grades are rounded to the tenth from 0.50 upwards, therefore 82.50-82.99 = 83 while 82.01 - 82.49 = 82. QP = Quality Points						

The grade point average (GPA) is the sum of earned grade points divided by the sum of block-hour credits passed and failed. Students are required to remediate any courses within a Block where the student's grade falls below 70. Students are required to remediate or complete a curriculum when the student's grade falls in I (Incomplete) or IP (In Progress) status. Students who do not successfully complete or remediate these courses are awarded an F or failing grade. A student will only be given a C* for a remediated course they pass with a grade above 70 (an exception may be granted to students repeating an entire academic year).

For the first two years, most courses have a traditional letter grade (A, B, C or F) and are calculated into the GPA. For the third and fourth years, all rotations have a clinical rotation grade on the Honors, High Pass, Pass, Fail system.

ASSESSMENT

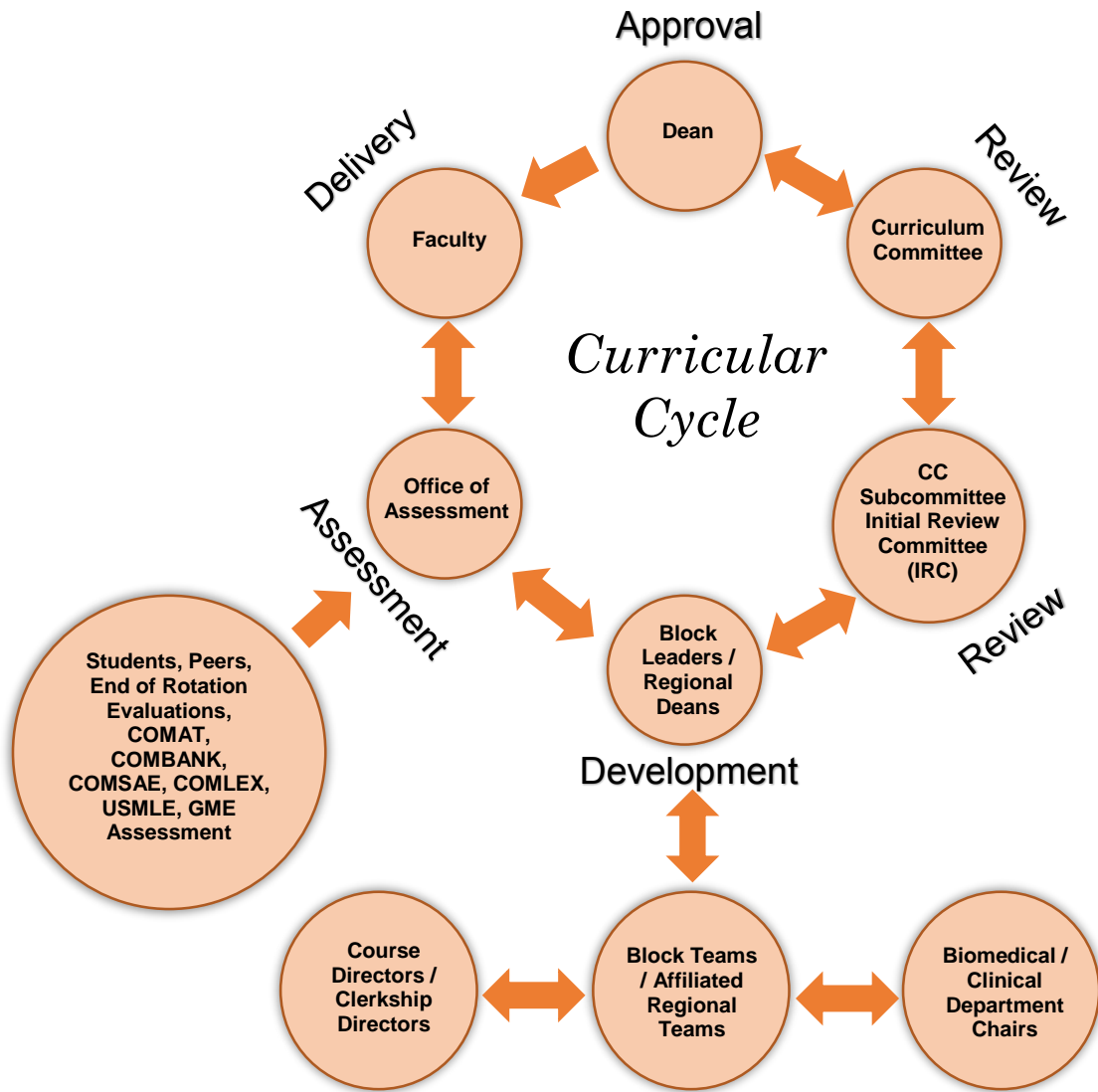
CUSOM has adopted the AACOM Osteopathic Core Competencies for Medical Students as the outcome objectives for graduates. These endpoint measures are found in the following 14 competency domains:

1. Osteopathic Philosophy and Osteopathic Manipulative Medicine
2. Medical Knowledge
3. Patient Care
4. Interpersonal and Communication Skills
5. Professionalism
6. Practice-Based Learning and Improvement
7. Systems-Based Practice
8. Counseling for Health Promotion/Disease Prevention
9. Cultural Competencies
10. Evaluation of Health Sciences Literature
11. Environmental and Occupational Medicine (OEM)
12. Public Health Systems
13. Global Health
14. Interprofessional Collaboration

Each has been mapped to the courses in which it will be covered, and evaluation strategies are used to ensure that all graduates achieve the intended learning outcomes. A comprehensive assessment plan summarizes additional methods and metrics that are tracked for continual program evaluation and improvement. Assessment of knowledge is by multiple choice examinations and quizzes administered electronically at scheduled intervals. Laboratory and clinical skills assessments are in written and/or verbal/practical format. Assessment of performance on rotations is by end-of-rotation examinations and related methods.

Assessment of performance compared to national cohorts is through the Comprehensive Osteopathic Medical Licensing Examination-USA Levels 1, 2 and 3.


CURRICULUM DESIGN, REVIEW AND REDESIGN PROCESS



2017-2018 ACADEMIC CALENDAR

CUSOM Class of 2021 (MS-1) 2017-2018 Academic Calendar						
July 2017						
Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					
August 2017						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		
September 2017						
Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
October 2017						
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				
November 2017						
Su	M	Tu	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		
December 2017						
Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						
January 2018						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			
February 2018						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			
March 2018						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
April 2018						
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					
May 2018						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		
June 2018						
Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

 Orientation	 Block 1 Jul 31 - Sept 29	 Integrated Written Exam
 Convocation	 Block 2 Oct 9 - Dec 8	 Integrated Written Exam/Anatomy Practical Exam
 Grand Rounds	 Block 3 Jan 2 - Mar 2	 Anatomy Practical Exam
 White Coat Ceremony	 Block 4 Mar 12 - May 18	 OMM Written/Practical Exam
 Graduation - May 10	 Break/Remediation	 Comprehensive Exam

 Holiday	
Sept 4	Labor Day - No Classes
Nov 23 - 24	Thanksgiving Break - No Classes
Dec 18 - Jan 1	Holiday Break - No Classes
Jan 15	Martin Luther King Day - No Classes
Mar 30	Good Friday - No Classes
May 28	Memorial Day
July 4	Independence Day



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Please Note: This calendar is subject to change. Please keep this in mind when making travel arrangements. When in doubt, please contact The Medical Education Department