



College of Osteopathic Medicine MICHIGAN STATE UNIVERSITY

ADDENDUM to COURSE SCHEDULE FOR OST 580 – RESPIRATORY Spring Semester 2024

12-18-23 SG

(see also: [Online Modules](#))

(see also: Lilly schedule posted on D2L)

Note: some items are listed twice – as items open earlier than they are due for learners that are working at different paces, so listed when it opens, and this then listed with the appropriate session number as well

Onsite sessions					
Date	Time	Topic or Title	Faculty	Format & Origin	Notes
12/18/23	8:00am	Course opens	All session 1 content available Lilly Primer opens	Self-directed learning (SDL)	Voluntary to do anything over break, open specifically per student requests
12/18/23	8:00 am	<u>Lilly Project</u> Hypoxemia Primer Opens		SDL	Do after completing the pre-quiz for first attempt
12/20/23	8:00am Opens	<u>Lilly Project</u> Hypoxemia Pre-Quiz Opens		SDL	
01/5/24	8:00 am Opens	<u>Lilly Project</u> Hypoxemia Post-Quiz Opens		SDL	
01/09/23- 01/13/23		Anatomy Review		Independent Study	
01/8/24	1:30-1:50pm	Course Introduction	Hughes	Lecture EL	Mandatory
01/8/24	2:00-2:50pm	<u>Lilly Project</u> -Intro to 580 Primer Board Prep	Sadasivan/Hughes	Lecture EL	Primer for OST 580 required iClicker check in and out to receive the 2 bonus points
01/11/24	Due 1pm	<u>Lilly Project</u> Hypoxemia Pre-Quiz Due	Kelly	SDL	FIRST ATTEMPT
01/16/24	Due by 8pm	<u>Lilly Project</u> Hypoxemia Pre-Quiz 100% score due: can take as many times as you like to achieve 100%	Kelly	SDL	Must score 100% on the hypoxemia pre - test to receive 4 pts.
01/11/24	1:00-1:50pm 2:00-2:50pm 3:00-3:50pm 4:00-4:50pm	Anatomy Thorax and Chest Structure ID and Imaging	Fitzsimmons, Nazaroff, Tilden	Disc Local– EL	Mandatory See group list on D2L
01/12/24	1:00-1:50pm 2:00-2:50pm	Anatomy Thorax and Chest Structure ID and Imaging	Fitzsimmons, Nazaroff, Tilden	Disc Local - SEMI	Mandatory See group list on D2L

01/16/24	8:00-8:50am 9:00-9:50am	Anatomy Head and Neck Structure ID and Imaging	Nazaroff, Tilden	Disc Local - SEMI	Mandatory See group list on D2L
01/17/24	1:00-1:50pm 2:00-2:50pm 3:00-3:50pm 4:00-4:50pm	Anatomy Head and Neck Structure ID and Imaging	Nazaroff, Tilden	Disc Local - EL	Mandatory See group list on D2L
01/18/24	8:00-8:50am	Physiology Review	DiCarlo	Lecture EL	Broadcast to SEMI
01/19/24	8:00 to 8:15am	<u>Anatomy Quiz</u>	In D2L	Time limited once start – total time	Must be completed in time to start sessions
01/19/24	8:40-4:20pm	Session 1 - Mandatory Clinical Integration and Critical Thinking (CICT) Session			
		ABG 1	Prodingner, Gerstner Minter, Bielawski	Disc – Local EL, DMC, MUC	See D2L for site specific times
		Physiology 1	DiCarlo, Kaufman		
		PFT	Kelly, Grim, Deamont, Bielawski		
		Micro 1	Gulick, Rosenberg, Rosenblat, Steck		
01/19/24	Due by 8pm	<u>Lilly Project</u> Hypoxemia Post- Quiz FIRST ATTEMPT Due	Kelly	SDL	FIRST ATTEMPT
01/22/24	8:00-12:00 PM	SEM 6 UNIT EXAM 1		Local	Covers online modules Session 1
01/22/24	Due by 8pm	<u>Lilly Project</u> Hypoxemia Post- Quiz Due: can take as many times as you like to achieve 100%	Kelly	SDL	Must score 100% on the hypoxemia post test to receive 5 pts.
01/22/24	Opens 8:00 am	<u>Lilly Project</u> -Asthma /COPD Pre-Quiz Opens	Kelly	SDL	
01/22/24	Opens 8:00 am	<u>Lilly Project</u> -Asthma /COPD Primer Opens	Kelly	SDL	Do after completing the pre-quiz for first attempt
01/24/24	1:00-1:50pm 2:00-2:50pm 3:00-3:50pm 4:00-4:50pm	Ultrasound	Hughes, Butki, Geske, Wolf, et al.	Disc Local - EL, DMC, MUC	Mandatory See group list on D2L
01/29/24	5:00 pm	<u>Lilly Project</u> Asthma/COPD Post-Quiz opens	Kelly	SDL	
01/29/24	12 noon	<u>Lilly Project</u> -Asthma /COPD Pre-Quiz FIRST ATTEMPT – on own to do 100% score pre- quiz	Kelly	SDL	FIRST ATTEMPT earns the points 2 pts.
1/29/24	8:00 am	<u>Lilly Project</u> Asthma/COPD Post-Quiz opens	Kelly	SDL	
1/30/24	8:00 pm	<u>Lilly Project</u> Asthma/COPD Post Quiz FIRST ATTEMPT due	Kelly	SDL	FIRST ATTEMPT due

01/31/24	10:00-11:50am 1:00 -2:50pm 3:00-4:50pm	Histology Lab – All sites local	Kennedy, Schwartz, Nazaroff	Disc Local - EL, MUC, DMC	Mandatory Not Recorded See D2L for site specific times
01/31/24	10:00-11:50am 1:00 -2:50pm 3:00-4:50pm	Micro/Derm/GU Respiratory lab	Wilkins	Disc Local - EL	Mandatory Not Recorded. See D2L for site specific times
02/02/24	8:00-3:35pm	Session 2 – Mandatory Clinical Integration and Critical Thinking (CICT) Session			
		Micro II,	Gulick, Rosenberg, Minter, Bielawski	Disc Local - EL, DMC, MUC	See D2L for site specific times
		Pharm I,	Restini, Rosenblat Gerstner /Hughes		
		Physiology II,	DiCarlo/Kaufman		
		OMM	Lippert		
02/02/24	4:00-4:50pm	Histology Review	Kennedy	LEC EL (NR)	Not Recorded Broadcast to SEMI
02/05/24	8:00-11:00am	SEM 6 UNIT EXAM 2		Local	Covers online modules Session 2
2/1/24	8:00 pm	<u>Lilly Project</u> Asthma/COPD Post-Quiz 100% attempt due	Kelly	SDL	Must score 100% on the asthma/copd post -test to receive 2 pts.
2/5/24	8:00am	<u>Lilly Project</u> Pleural Disease Pre-Quiz Opens	Kelly	SDL	
2/5/24	8:00 am	<u>Lilly Project</u> Pleural Disease Primer Opens	Kelly	SDL	Open after taking pre- quiz
2/6/24	8:00 am	<u>Lilly Project</u> Pleural Disease Post Quiz opens	Kelly	SDL	
2/6/24	1:00 pm	<u>Lilly Project</u> Pleural Disease Pre Quiz FIRST ATTEMPT due	Kelly	SDL	FIRST ATTEMPT quiz to receive 2 pts.
02/07/24	8:00-9:50am	Micro/Derm/GU Respiratory lab	Wilkins	Disc – MUC Local	Mandatory See group list on D2L
02/07/24	1:00-2:50pm	Micro/Derm/GU Respiratory lab	Wilkins	Disc – DMC Local	Mandatory See group list on D2L

02/09/24	8:00-3:35pm	Session 3 - Mandatory Clinical Integration and Critical Thinking (CICT) Session			
		Pharmacology II	Prodinger, Minter, Restini	Disc Local - EL, DMC, MUC	See D2L for site specific times
		Radiology	Delano, Carillo Wolf,		
		Non-pulmonary causes pulm complaints	Hughes, Butki, Bielawski,		
		Dyspnea I	Gerstner, Butki, Bielawski,		
02/09/24	8:00 pm	<u>Lilly Project</u> Pleural Disease Post Quiz due with 100% score			Must score 100% on the Pleural Disease post quiz to receive 2 BONUS pts. for completing the Lilly project as designed
02/12/24	8:00-11:00am	SEM 6 UNIT EXAM 3		Local	Covers online modules Session 3 except I Can't Breathe modules and Airway Lab pre-lecture
02/12/24	1:00-2:50 pm 3:00-4:50pm	Anatomy CICT (Clinical Integration and Critical thinking) THORAX	EL: Hughes, Gerstner, Etchebarne, DMC- Stone, Whittier, Singh, Alhadheri, MUC- Cuddeback, Awabdeh, DeLong, Hensley	Disc Local - EL, MUC, DMC	Mandatory
02/14/24	1:00-2:50 pm 3:00-4:50pm	Anatomy CICT (Clinical Integration and Critical thinking) THORAX	EL: Hughes, Gerstner Etchebarne,	Disc Local – EL	Mandatory
02/15/24	8:00-9:00am	Airway Lab Preparation	Hughes	SDL – D2L	
02/16/24	8:00am-3:35pm	Session 4 ENT and Vents - Mandatory Clinical Integration and Critical Thinking (CICT)			
		Vents and ENT	EL-Kelly/Grim Hughes DMC- Stern, MUC-Bielawski	Disc Local - EL, MUC, DMC	During half day not in Clinical integration session. 1 hour + read pre-oxygenation article in prep for intubation lab on 2/19. See D2L group assignments
02/19/24	8:00-12:00pm	DMC - Airway Lab	Butki, et al.	Disc Local - DMC	Mandatory See D2L group list
02/19/24	8:00-12:00pm	MUC - Airway Lab	Coyne, Steck, Doerr	Disc Local - MUC	Mandatory See D2L group list
02/19/24	7:00-5:20pm	EL – Airway Lab	Hughes, et al.	Disc Local - EL	Mandatory See D2L group list

02/19/24	1:00-2:50pm 3:00-4:50pm	Anatomy CICT (Clin Integration and Critical thinking) HEAD AND NECK	Stone, Whittier, Alhadheri, Hensley, Cuddeback, DeLong Awabdeh, Nazaroff Tilden	Disc Local SEMI	Mandatory
02/20/24	11:00-11:55am	Pre-Oxy Article Reading Quiz		D2L	
02/20/24	1:00-2:50 pm 3:00-4:50pm	Anatomy CICT (Clin Integration and Critical thinking) HEAD AND NECK	Hughes, Gerstner Fitzsimmons, Etchebarne, et al.	Disc Local - EL	Mandatory
02/21/24	1:00-2:50 pm 3:00-4:50pm	Anatomy CICT (Clin Integration and Critical thinking) HEAD AND NECK	Hughes, Gerstner Fitzsimmons, Etchebarne, et al.	Disc Local - EL	Mandatory
02/23/24	11:00-11:50am	Histology Review	Kennedy	Lecture – EL	Not recorded Broadcast to SEMI
02/23/24	1:00-2:30pm	Clinical Faculty Review	Hughes, Gerstner, Kelly	REM	Recorded
02/23/24	3:00-3:50pm	Physiology Review	DiCarlo	Lecture – EL	Recorded Broadcast to SEMI
02/26/24	8:00-4:00pm	Open Anatomy Lab		Disc Local – All sites	
02/27/24	8:00-4:00pm	Open Anatomy Lab		Disc Local – All sites	
02/28/24	9:00-2:30pm Exact time TBD	SEM 6 UNIT EXAM 5 Anatomy Lab Practical Exam		Exam - Local	Content from OST580 Session 1-4 content only See lab schedule
02/29/24	8:00- 12:00pm	SEM 6 UNIT EXAM 6 Written Exam Comprehensive		Exam - Local	Content from OST580 Session 1-4 No content from Dr. Wilkins or Dr. Taylor on comp final

Online Modules

(module assignments are also noted in headers on academic calendar)

Session 1 lecture modules: The Fundamentals & Infectious Disease

(review prior to January 22, 2024, S6 Unit Exam 1)

Viewing Order	Lecturer	Title	Elapse Time
1.01	Fitzsimmons	Lung Surface Anatomy (General, male and female auscultation posts)	18:44
1.02	Fitzsimmons	Thoracic Cavity and Lungs	37:09
1.03	Fitzsimmons	Nasal Cavity and Paranasal Sinuses	23:50
1.04	Fitzsimmons	Ear (Radiology, external ear, middle ear, mastoid process, Eustachian..)	20:40
1.05	Fitzsimmons	Pharynx and Larynx (Fascia, embryology, pharynx lymphatics, larynx ligaments, larynx muscles, thyroid gland)	46:10
1.06	Fitzsimmons	Oral Cavity and teeth	34:31
1.07	DiCarlo	1.07.1 Chapter 1: Basic Concept I 1.07.2 Chapter 1: Basic Concepts II	35:35 15:29
1.08	DiCarlo	1.08.1 Chapter 2: Pulmonary Mechanics I 1.08.2 Chapter 2: Pulmonary Mechanics II	35:54 21:30
1.09	DiCarlo	1.09.1 Chapter 3: Pulmonary Ventilation I 1.09.2 Chapter 3: Pulmonary Ventilation II	27:49 23:17
1.10	DiCarlo	1.10.1 Chapter 4: Pulmonary Blood Flow I 1.10.2 Chapter 4: Pulmonary Blood Flow II	23:50 26:56
1.11	DiCarlo	1.11.1 Chapter 5: Pulmonary Gas Exchange I 1.11.2 Chapter 5: Pulmonary Gas Exchange II	38:18 35:29
1.12	DiCarlo	1.12.1 Chapter 6: Gas Transport Lungs and Periphery I 1.12.2 Chapter 6: Gas Transport Lungs and Periphery II 1.12.3 Chapter 6: Gas Transport Lungs and Periphery III	23:37 36:09 29:33
1.13	DiCarlo	1.13 Chapter 7: Control of Ventilation	18:56
No recording	DiCarlo	Chapter 8: Physiology Practice Questions – in coursepack (no recording)	No Module
1.14	Kelly	Oxygen transport and delivery	16:59
1.15	Kelly	Respiratory Failure	18:44
		Take Hypoxemia Pre-Quiz	
1.16	Kelly	Understanding Hypoxemia (Supplemental)	19:18
		Take Hypoxemia Post-Quiz	
1.17	Kelly	Pulmonary Function Tests	12:45
1.18	Gerstner	Arterial Blood Gasses	22:53
1.19	Wilkins	Micro – Normal Human Microbiota and an Overview of Bacterial Classes	12:23
1.20	Wilkins	Micro – Bacterial Respiratory Pathogens	12:30
1.21	Taylor	1.21.1 Immunology Review – Part 1 1.21.2 Immunology Review – Part 2 1.21.3 Immunology Review – Part 3	20:57 23:33 25:20

Viewing Order	Lecturer	Title	Elapse Time
1.22	Gulick	Pulmonary Defenses	1:02:41
1.23	Delano	Respiratory & Sinus Radiology	44:41
1.24	Gerstner	Lung and Thorax – the H & P	22:40
1.25	Gulick	Pulmonary Infections in the Immunocompromised Patient	1:02:02
1.26	Gulick	Community Acquired Pneumonia (CAP)	41:39
1.27	Gulick	Hospital Acquired Pneumonia (HAP)	57:08
1.28	Nassiri	Treatment of: Group A Streptococcal pharyngitis, and Bacterial Pneumonia	44:04
1.29	Rosenberg	Viral Respiratory Infections Part I	37:20
1.30	Rosenberg	Viral Respiratory Infections Part II	Cont.
1.31	Gulick	Covid-19 Disease in the lungs	58:28
1.32	Nassiri	Pharmacology of Viral Respiratory Infections	23:29

Approximate Elapse time for OST580 online modules: 20 hrs. 13 mins.

Session 1 Labs: PFT, ABG, Physiology 1, Micro 1

Session 2 lectures: Infectious Diseases continued & Radiology

(review prior to Feb. 5, 2024, S6 Unit Exam 2)

Viewing Order	Lecturer	Topic	Elapse Time
2.01	Kennedy	Respiratory System Histology	1:02:46
2.02	Delano	Radiology - The Normal Chest	15:08
2.03	Delano	Radiology - The Airway	13:45
2.04	Delano	Radiology - Hilar Anatomy and Pathology	12:40
2.05	Delano	Radiology - Bronchi and Lungs	1:27:41
2.06 <small>No recording</small>	Kelly	Hemoptysis	Handout only
2.07 <small>No recording</small>	Kelly	Cough	Handout only
2.08	Kowalski	Pathology of Acute and Subacute Infections	39:10
2.09	Kowalski	Pathology of Chronic Pulmonary Infections	35:14
2.10	Kowalski	Pulmonary Pathology of Immunocompromised Hosts	40:50
2.11	Gulick	Fungal Respiratory Infections	53:45
2.12	Nassiri	Pharmacology of Respiratory Infections – Treatment of Fungal Lung Infections	55:32
2.13	Gulick	Mycobacterium Tuberculosis	52:32
2.14	Gulick	Atypical Mycobacteria	39:46
2.15	Nassiri	Pharmacology of Pulmonary TB and Non-TB Mycobacterial Infections	34:56
2.16	Butki	Sepsis	19:52
2.17	Butki	Pneumonia Severity Tool Prediction Tools	5:15
2.18	Hughes	Periorbital (Preseptal) and Orbital Cellulitis	10:32
2.19	Hughes	2.19.1 Upper Airway Emergencies Chapter 1 Intro 2.19.2 Upper Airway Emergencies Chapter 2 Infections Disorders 2.19.3 Upper Airway Emergencies Chapter 3 Inflammatory 2.19.4 Upper Airway Emergencies Chapter 4 Pertussis	11:18 29:48 12:29 9:33
2.20	Lippert	Osteopathic Principles, Manipulative Medicine and the Respiratory System – will be primarily ENT focused	42:33
2.21	Kelly	2.21.1 - Asthma: Pathogenesis and Endotyping 2.21.2 - Asthma: Diagnosis and Treatment	8:58 15:15
2.22	Kelly	COPD: Pathogenesis and Endotyping	10:21
2.23	Kelly	COPD: Diagnosis and Treatment	17:58
		Take Asthma vs. COPD Pre-Quiz	
2.24	Kelly	COPD patient video	13:14
2.25	Kelly	Asthma patient video	6:10
		Take Asthma vs. COPD Post-Quiz	
2.26	Restini	Pharmacology of Asthma and Chronic Obstructive Pulmonary Disorder (COPD)	43:50
2.27	Hughes	Clinical Approach to Acute Bronchodilator in an Emergency	18:31
2.28	Hughes	Math calculations	6:28
2.29	Kowalski	Pathology of Obstructive Pulmonary Diseases	41:24
2.30	Kelly	Pulmonary Issues in Pregnancy	27:24

Approximate Elapse time for OST580 online modules: 14 hrs. 45 mins.

Session 2: Physiology 2, Pharm 1, Micro 2 and OMM board review

Session 3 lectures: (review prior to Feb. 12, 2024, S6 Unit Exam 3)

Viewing Order	Lecturer	Topic	Elapse Time
3.01	Kelly	Respiratory Failure Modes of Ventilatory Support	31:34
3.02	Kelly	Acute Respiratory Distress Syndrome (ARDS) – including EVALI	22:24
3.03	Kowalski	Pathology of ARDS / Shock/ DIC	49:08
3.04	Kelly	Sleep Disordered Breathing	17:20
3.05	Restini	Pharmacology of Drugs, cough, antitussives, decongestants, expectorants, antihistamines	40:28
3.06	Kelly	Sarcoidosis	15:06
3.07	Kaufman	Hypercalcemia in Sarcoidosis	10:20
3.08	Hughes	Pulmonary Embolism – clinical presentation and diagnostic work up	27:19
3.09	Kowalski	Pulmonary Vascular Pathology	27:53
3.10	Delano	Radiology - Pulmonary Embolism and Infarction; pleural disease -	17:19
3.11	Delano	Radiology - Normal Sinus Anatomy, sinus x-ray views & sinus pathology	10:46
3.12	Delano	Radiology - Normal CT and x-ray of mastoids; mastoid pathology -	4:33
3.13	Kelly	Interstitial Lung Disease	16:52
3.14	Kelly	Occupational and Environmental Lung Disease	23:29
3.15	Kowalski	Pathology of Interstitial & Restrictive Pulmonary Diseases	56:24
3.16	Gulick	Lung Cancer	39:20
3.17	Kelly	Pleural Disease	24:30
		Take Pleural Pre-Quiz	
3.18	Kelly	Diagnosis and Management of Pleural Disease (Differentiating Pleural Disease) - Supplemental	13:26
		Take Pleural Post-Quiz	
3.19	Kowalski	Pulmonary and Pleural Neoplasia	1:07:25
3.20	Hughes	*** Complete before attending Airway Lab on 2/19/24*** tested only on comprehensive final 3.20.1 I Can't Breathe – Part I 3.20.2 I Can't Breathe – Part II 3.20.3 I Can't Breathe – Part III	21:45 18:22 36:11
3.21	Hughes	Airway Pre-lab lecture - ACLS Airway Techniques *** Complete before attending Airway Lab on 2/19/24*** ** tested only on comprehensive final	51:53
3.22	Hughes	3.22.1 Chest Trauma – Parts 1 3.22.2 Chest Trauma – Parts 2 3.22.3 Chest Trauma – Parts 3 3.22.4 Chest Trauma – Parts 4	16:15 22:10 15:08 8:30

Approximate Elapse time for OST580 online modules: 11hrs. 45 mins.

Session 3: Radiology, Pharm 2, Non-pulmonary causes of pulmonary complaints, and Dyspnea cases (Topics to be covered only on the final exam – occur after 2/12 exam)

Viewing Order	Lecturer	Topic	Elapse Time
4.01	Strabbing	ENT Laryngeal Cancer	4:31
4.02	Strabbing	ENT Pharyngeal and Adenotonsillar disorders	7:07

Viewing Order	Lecturer	Topic	Elapse Time
4.03	Strabbing	ENT Salivary Glands	5:40
4.04	Hughes/Strabbing	Article - The Adult Neck Mass (on D2L in Session 4 folder)	On D2L
4.05	Kowalski	Pathology of the Larynx and neck	26:15
4.06	Strabbing	ENT Rhinitis	6:17
4.07	Strabbing	ENT Sinusitis	15:02
4.08	Strabbing	ENT External Ear	11:16
4.09	Strabbing	ENT Middle Ear	14:22
4.10	Strabbing	ENT Inner Ear Vestibule	18:20
4.11	Strabbing	ENT Epistaxis	13:30
4.12	Strabbing	ENT Head and Neck masses	10:42
4.13 No recording		Oral Health Articles	On D2L
4.14	Strabbing	ENT Oral and Oropharyngeal cancer	7:12
4.15	Strabbing	ENT Oral Cavity	9:32
4.16	Kowalski	Pathology of the Oral Cavity and the Oronasopharynx	1:01:22

Total Elapsed time – 3 hrs. 31 mins.