

OST 579 – Cardiovascular System

Fall Semester 5 – 2020

Updated: 10/12/2020 rlb

Table of Contents

Course Description.....	3
Course Goals.....	3
College Program Objectives.....	3
Course Coordinator.....	3
Course Faculty.....	3
Curriculum Assistants.....	4
Lines of Communication.....	4
Course Liaisons.....	4
Office Hours.....	4
Course Web Site.....	4
Textbooks and Reference Materials.....	5
Course-based Academic Support.....	6
Courses begin and end dates.....	6
Exams/Assessments.....	6
Professionalism/Attendance Points.....	7
Final Course Grades.....	9
Student Evaluation of the Course.....	10
Course Organization and Self-Directed Learning.....	12
Academic Honesty and Professionalism.....	13
Types of Class Sessions.....	13
Mandatory and Optional Class Sessions.....	13
Absences from Mandatory and Examinations/Assessments.....	13
Computer-Based Testing.....	14
Medical Student Rights and Responsibilities.....	14
Remediation.....	15
Student Safety and Well-being.....	15
Requests for Accommodations.....	15
Title IX Notifications.....	15
Addendum: Course Schedule.....	17
Addendum 2: Mastering EKG and Rhythm Strip Interpretation.....	18
Addendum 3: eMurmur Primer and eMurmur University.....	19

Notice to Students: Although course syllabi at MSUCOM have a consistent format, vitally important details differ by course. For this reason, you must read the syllabus thoroughly at the onset of each course to know what the course will provide and what is expected of you.

Section 1 – Course Information

Course Description

OST579 is a 9 credit hour course that provides students with a multidisciplinary study of the cardiovascular system in health and disease.

Course Goals

1. To provide a comprehensive presentation of normal and abnormal cardiovascular structure and function
2. To give the student a basic understanding of the diagnosis and clinical management of the major cardiovascular disorders
3. Class time will be used for lectures, workshops, laboratory sessions, review sessions, and quizzes as indicated on the attached schedule.

In order to prepare the student for a lifetime of self-study as a physician, OST 579 is employing active learning with increased student participation in the learning process. This is being accomplished via:

- Assigned readings to complement formal lectures for which the student will be held responsible in the evaluation process.
- Computer assisted interactive learning listed later in Supplemental Materials.

Please note that specific instructional objectives are provided within each lecture or other learning activity of this course.

College Program Objectives

In addition to the above course-specific goals and learning objectives, this preclerkship course also facilitates student progress in attaining the College Program Objectives. Please refer to the complete list provided on the MSUCOM website

http://com.msu.edu/About/Accreditation/overview_of_program.htm.

Course Coordinator

(Note - Preferred method of contact is shown in italics)

Name: David Strobl, D.O.

Phone: 517-353-9515

Email: chambe27@msu.edu (preferred method)

Address: 965 Fee Rd, E Fee Hall Room A331, East Lansing, MI 48824

Course Faculty

Name	Email	Phone	Site
David Boes, D.O.	boes@msu.edu		EL
Nikolai Butki, D.O.	butkinik@msu.edu	313-578-9629	DMC
Stephen DiCarlo, Ph.D.	dicarlos@msu.edu		EL
Peter Gulick, D.O.	gulick@msu.edu	517-353-3211	EL
Tony Her, M.D.	hertony@msu.edu		EL
Mary Hughes, D.O.	hughesm@msu.edu	517-353-3211	EL
Frances Kennedy, DVM	kenndyf@msu.edu	517-432-0467	EL

Paul Kowalski, M.D.	pauljk@msu.edu		EL
Chad Link, D.O.	linkchad@msu.edu	517-483-7598	EL
Carolina Restini, PhD	restinic@msu.edu	517-353-7145	MUC
Kevin Robinson, DO	robin280@msu.edu	517-884-3205	EL
Melissa Rosenberg, M.D.	rosen119@msu.edu	517-353-3100	EL
Ali Sheikh, DO	ali.sheikh@sparrow.org		EL
Janice Schwartz, PhD	schwa317@msu.edu	313-578-9671	DMC
Matthew Wilcox, D.O.	mwilcox186@gmail.com	517-483-7598	EL
Carol Wilkins, Ph.D.	mindockc@msu.edu		EL

Curriculum Assistants

Site	Name	Email	Phone
East Lansing - Lead	Robin Borowski	chambe27@msu.edu	517-353-9515
DMC	Smita Deb	debsmita@msu.edu	313-578-9628
MUC	Rosemary Shubeck	shubeckr@msu.edu	586-226-4788

Lines of Communication

- For administrative aspects of the Course: general questions should be posted on the Discussion Board; for personal matters, you may contact the course coordinator directly.
- For content questions relating to a specific lecture or topic: please initially post all content questions under the specific faculty presenter on the Discussion Board. The Course Coordinator also monitors the discussion boards regarding content daily to insure a quick response.
- For absences/missed exams (see excused absence information below)
- Please set your notifications in D2L to immediate to receive posted News announcements. You may choose to receive notifications by email or SMS.

Course Liaisons

President, Class of 2023: Derek Versalle (versall1@msu.edu)

Site	Name	Email
East Lansing	Jessica Lavoie	lavoiej1@msu.edu
East Lansing	Kerrigan Lemoine	lemkerr@msu.edu
East Lansing	Mitchell Oliver	oliverm6@msu.edu
DMC	Christian Dondonan	dondonan@msu.edu
DMC	Ali Hamade	hamadeal@msu.edu
MUC	Matthew Thomas	thom1887@msu.edu

Office Hours

Questions of a personal nature may be discussed individually by making an appointment with Dr. Strobl, Academic Programs, via e-mail. There are no set office hours.

Course Web Site

The URL for the Course website is: <https://d2l.msu.edu>

Textbooks and Reference Materials

Required

- eMurmur Primer/eMurmur University, CSD Labs International, Inc., 2020

Please use the following link to purchase: https://emurmur.com/student-payment/?product=msu2020_1 and please sign up using your @msu.edu email address

- Lilly. Pathophysiology of Heart Disease, 7th ed., 2020, Lippincott, Williams & Wilkins

Recommended Reference

- Fauci, et al. Harrison's Principles of Internal Medicine, 18th ed., 2011, McGraw-Hill
- Fausto. Robbins & Cotran, Pathologic Basis of Disease, 9th ed., 2014, Saunders
- Ross & Pawlina. Histology: A Text and Atlas, 8th ed., 2020, Lippincott, Williams & Wilkins
- Rhodes & Bell. Medical Physiology: Principles of Clinical Medicine, 4th ed., 2013, Lippincott, Williams & Wilkins
- Sadler. Langman's Medical Embryology, 12th ed., 2012, Lippincott, Williams & Wilkins
- Harvey & Ferrier. Lippincott's Illustrated Reviews: Biochemistry, 7th ed., 2017, Lippincott, Williams & Wilkins
- Goodman & Gilman's: The Pharmacological Basis of Therapeutics, 13th ed., 2017, Laurence L. Brunton, Randa Hilal-Dandan, Björn C. Knollmann.
<https://accessmedicine-mhmedical-com.proxy2.cl.msu.edu/book.aspx?bookid=2189>
Section III:
Chapter 25: Drugs Affecting Renal Excretory Function Chapter 26: Renin and Angiotensin
Chapter 27: Treatment of Ischemic Heart Disease Chapter 28:
Treatment of Hypertension Chapter 29: Therapy of Heart Failure Chapter 30:
Antiarrhythmic Drugs Chapter 32: Blood Coagulation and Anticoagulant, Fibrinolytic, and
Antiplatelet Drugs Chapter 33: Drug Therapy for Dyslipidemias
- Basic & Clinical Pharmacology, 14e - Bertram G. Katzung
<http://accessmedicine.mhmedical.com.proxy2.cl.msu.edu/book.aspx?bookid=2249>
Section III:
Chapter 11: Antihypertensive Agents
Chapter 12: Vasodilators & the Treatment of Angina Pectoris Chapter 13:
Drugs Used in Heart Failure Chapter 14: Agents Used in Cardiac Arrhythmias Chapter 15: Diuretic
Agents

Optional

- Dubin, D. Rapid Interpretation of EKG's. Cover Inc. Publ., 6th ed., 2000

Course-based Academic Support

The course faculty are here to facilitate your learning. The large number of students in this course (about 300) necessitates a degree of formality. Also, since your schedules are very full, we must adhere rigidly to the lecture, small group and lab times assigned to this course. However, within these constraints, the needs of individual students will be accommodated whenever possible. Please feel free to contact the Course Coordinator with any personal issues you may have involving this course.

Additional academic support resources can be accessed here: [MSUCOM Office of Academic Success and Career Planning](#).

Courses begin and end dates

OST579 begins on October 5, 2020 and ends on December 11, 2020. See addendum for detailed daily course schedule.

Exams/Assessments

The successful achievement of learning objectives will require knowledge and skills acquired in other portions of the overall MSUCOM educational program. Students will be expected to apply concepts and vocabulary learned in other courses to problem-solving for exams/assessments in this course.

([MSUCOM Program Philosophy](#))

In order to maintain security of assessments, you may NOT post questions on the discussion board regarding exam questions or quiz questions. Kindly email your questions to the course coordinator.

There are a total of three mid-course exams and a cumulative Final Exam. Exam 1, Exam 2 and Exam 3 will each be worth 50 points. The lowest score will be dropped. This policy will hopefully relieve some of the test-taking performance anxiety and allow students to perform at their best. The policy was also adopted to cover all potential conflicts with exam scheduling, such as observance of a religious holiday, unexpected medical illness, and all other unforeseen absences. Students should plan on and are expected to take all exams and must obtain an excused absence for any of these situations. However, there will be **no make-up exams** for any of the three mid-course exams. This allows the class as a whole to maintain continuity of the course content, so that the course coordinator can immediately review the previous exam results with all students and clarify any poorly understood concepts without delay. Please be aware that if an excused absence is **not** obtained for any mandatory exam, it may result in an "N" grade for the course, as per the pre-clerkship excused absence policy.

Your best 2 of 3 scores from Exams 1, Exam 2 and Exam 3 **plus** your Final Exam score will determine your exam score points in the course (see below). After dropping your lowest score of the three mid-course exams, you can earn a potential of 100 points from the mid-course exams. The Final Exam will also be worth 100 points. In addition to your exam scores, you can potentially earn up to 11 points for Professionalism/Attendance, and additional 9 points for completion of eMurmur modules. These points will be in a separate category, and will count toward your passing score. The examination/assessment schedule is as follows:

Assessments	Potential Earned Points	Material to be Covered
Mid-course Exams	100 (best two of three exam scores)	<ul style="list-style-type: none"> • Exam #1: 50 points, Lectures from 10/5/2020 to 10/16/2020 • Exam #2: 50 Points, Lectures from 10/18/2020 to 10/30/2020 • Exam #3: 50 Points, Lectures from 11/3/2020 to 11/13/2020
Comprehensive Final Exam	100	Lectures 10/5/2020 to 12/9/2020
Professionalism/Attendance	Up to 11 points	See below for attendance events
eMurmur Module Completion	Up to 9 points	See below for eMurmur modules
TOTAL POTENTIAL POINTS	220*	*Must earn 75% or more (165 points or more) to pass

Professionalism/Attendance Points

Students can earn up to 11 points for attending designated Webinar events during the course. These points will be applied to a student's final course score. Throughout your careers as physicians, there will be times where it will be important for you to **attend and be punctual** for certain events to convey respect for your patients and colleagues. Professionalism is a key attribute for a D.O. physician, and is as important as book knowledge and clinical skills. Therefore, students in OST 579 will be rewarded with earned points for attendance at key guest lecture and laboratory events that can be applied to their total course score.

The designated events / dates are on the following table:

Professionalism/Attendance Points Dates/Times (each event worth 1 point)

Date	Time	Lecture / Lab
10/5/2020	11:00-11:50 AM	Course Introduction
10/22/2020	9:00-11:50 AM	Rhythm Strip Bootcamp 1, 2 & 3
10/28/2020	10:00 – 11:50 AM	EKG Bootcamps 1 & 2
10/29/2020	9:00-11:50 AM	EKG Bootcamps 3, 4 & 5
10/30/2020	9:00-10:50 AM	EKG Grand Rounds 1 & 2
11/11/2020	11:00 – 11:50 AM	Emotions and the Heart
11/13/2020	1:00-2:50 PM	Grand Rounds for Exam 3 – 1pt
12/3/2020	9:00-11:50 AM	Emergency Medicine Cases 1, 2 & 3
12/7/2020	9:00-11:50 AM	Case Study Workshop 1
12/8/2020	9:00-11:50 AM	Case Study Workshop 2
12/9/2020	9:00-11:50 AM	Final Exam Grand Rounds 1, 2, & 3

Students will be awarded one point for attendance of the **entire** event. There will be no make-up events or partial points. Attendance will be documented using Reef Polling. Each student is responsible for bringing a working device to these events. Certain laboratories or events may also require a minimum quiz score to earn the point.

- If the student does NOT document his/her attendance in the proper manner and on time the student is considered absent for the event, regardless if the instructor or classmates can verify your attendance.
- Falsification of an attendance record (e.g., signing in for someone other than oneself or signing in and then leaving the session early) will be considered an instance of professional misconduct equivalent to academic dishonesty (i.e. cheating). This is considered a serious situation and may result in dismissal from the college. See MSUCOM policy regarding academic dishonesty and professionalism.
- The student will be counted as absent if he/she arrives more than 5 minutes late to a session. The student will be expected to participate in the activity if they are present and will be eligible for points if they are fully engaged in the session.

Additional Attendance/Professionalism Points

Under special circumstances, Dr. Strobl may designate other events that may be eligible for additional Attendance/Professionalism points. Since these are not on the original syllabus schedule, the students will be notified by both an email and by a D2L post of such events. These are optional events and not required. Students that participate (confirmed by REEF polling) in such events will be awarded one “**true bonus**” point that will be applied to their final course score. These points will be in addition to the other standard scoring that is outlined in the syllabus on pages 6 and 7.

Auscultation Skills Development: eMurmur Primer and eMurmur University

Students can earn up to 9 points towards their final course score for completing and demonstrating proficiency in cardiac auscultation skills during the course. We will be using the eMurmur platform (see Addendum 3 for details on purchasing and downloading the apps on your device). **The eMurmur app is a required student purchase** at the discounted price of **\$28.00 per student**. **The purchase transaction must be made by 10/14/2020**, and will entitle the student a license term of one year, allowing for further practice and review through December 31, 2021.

There are a total of **nine modules** in the eMurmur Primer course. Students will need to complete the “training” section of each module **and** score a **minimum score of 70% on the self-test to earn one point**. Students may re-take the self-test as many times as they wish; however the final registered score for each module will be from the last test taken. **A total of nine points (one for each module) can be earned** towards your final course score.

eMurmur Primer Module	Scheduled Self-Study Course Calendar Date
<i>Fundamentals (available 10/5)</i>	
1. Introduction	10/14/2020
2. Breath Sounds	10/14/2020
3. Clicks, Splits & S4	10/14/2020
<i>Intermediate (available 11/16)</i>	
4. Murmur vs No Murmur	11/4/2020
5. Identifying Murmurs I	11/19/2020
6. Identifying Murmurs II	11/20/2020
<i>Advance (available 11/16)</i>	
7. Innocent or Pathological I	12/4/2020
8. Absent, Innocent or Pathological	12/4/2020
9. Innocent or Pathological II	12/4/2020

You will be able to work through the first 3 modules (Fundamentals) immediately upon purchase, but access to the Intermediate and Advanced modules will only be unlocked on November 16th, 2020. This date coincides with the delivery of the Valvular Heart Disease material in the course schedule. The mastery of auscultation skills requires slow and steady practice, and students are encouraged to pace themselves slowly through the modules. There is dedicated time in the course schedule for self-study (see table above), however students are encouraged to self-pace their learning and testing.

Make-up Exams

Mid-Course Exams: There will be no make-ups for the first three exams. Your score will simply be zero for a missed exam.

Final Exam: *If an emergency prevents your attendance at the Final Examination, you **MUST** receive an excused absence. Requests for an excused absence must be submitted via the [student portal](#).*

If a make-up Final Exam is needed, it will be given on date to be determined. The format of the make-up exam will be at the discretion of the course coordinator.

If a student is eligible for a make-up Final Exam, please make every attempt to sit for the make-up exam. If a true emergency arises, contact Mrs. Nancy Thoma at 517-719-8120 at least 30 minutes prior to the scheduled start time of this exam. Mrs. Thoma will then contact the Course Coordinator for preliminary determination if another excused absence is warranted. Please be advised that Course Coordinator alone will make this determination and that another excused absence is not guaranteed. You will not be eligible to take a remediation exam if you do not take the final exam. Any unexcused absence will result in a Final Exam score of "0" and the student will need to enroll in OST 579 when it is again offered in 2021.

Final Course Grades

Your final course grade will be reflected in D2L. You must take **at least one** of the first three exams **and** the Final Exam to be eligible to either pass the course (165 points) or to be eligible to take remediation

(less than 165 points). If the student is ineligible for the remediation course, or fails remediation, the student will need to enroll in OST 579 when offered again in 2021.

- **P-Pass** – means that credit is granted and that the student achieved a level of performance judged to be satisfactory by the instructor. To obtain a “P” grade for this course, a student must obtain:
 - The composite of ***your best 2 scores*** on exams 1, 2 and 3 (potential of 100 points) ***plus*** the Final Exam (potential of 100 points) ***plus*** *Professionalism/Attendance Points* (potential of 11 pts) ***plus*** *eMurmur Module Completion Points* (potential 9 pts) will determine your course score. **At least 165 points are required for you to pass the course.**
- **N-No Grade** – means that no credit is granted and that the student did not achieve a level of performance judged to be satisfactory by the instructor. A student who accumulates less than 165 points will receive an “N” grade.
 - A student who receives an N grade on the basis of the examination cumulative score but was able to pass (75% or greater score) at least one of the examinations taken will be eligible to apply for remediation after an appropriate period of directed self-study.

A student who receives an N grade on the basis of the cumulative score and was unable to pass any exam taken will not be eligible for remediation and will need to enroll in OST 579 when offered in 2021.

- **Remediation** – If you receive an “N” grade and meet the criteria below, you will be eligible to attempt remediation:
 - Earn a final percent score in the course of 65% or greater, and
 - Pass (75% or greater score) at least one of the examinations taken, and
 - Earn at least 8 of the possible 11 Attendance/Professionalism points

The remediation opportunity for this course will be by examination. Passing is 75%.

All remediation exams for semester FS20 are scheduled for January 5 or January 6, 2021. Refer to the remediation policy information provided in Section 2 of this syllabus for more information.

Student Evaluation of the Course

We want your feedback on how to improve this course.

- **Informal Feedback:** Please contact your Cardio Liaison throughout the course with any concerns or suggestions. You may also approach the Course Coordinator or any of the course faculty directly with your feedback.
- **Mid-course Survey:** After the second exam, a mid-course survey will be conducted to provide feedback to the Course Coordinator. This is your opportunity to help improve both the current and future courses.
- **Formal Evaluation:** In addition to the above, we ask every student in the class to complete formal on-line course evaluation upon conclusion of the course. Student course evaluations are highly recommended. Student feedback provides Course Coordinators with valuable information regarding their performance, the performance of their colleagues, and the quality of the course.

The information gained from these evaluations is used to continuously improve future offerings of this course. Students can access the evaluation system at: [MSUCOM Pre-clerkship Evaluation System](#).

Evaluation will open on 12/12/20 and close on 12/25/20.

Course Organization and Self-Directed Learning

It is a goal at MSUCOM to promote self-directed learning to help our students grow into strong, self-directed future clinicians. Self-directed learning is also required by medical school accreditation standards. It is a 4-step process that occurs within an encapsulated timeframe. OST 579 is organized into 4 units, which begin with presentation of related learning objectives and end with a course examination. The first three units span 2 weeks, while the last is longer and spans a holiday break. Across these units, you will see the 4 steps of self-directed learning take shape as follows:

1. **Self-Assessment of Learning Needs** – Units begin with the presentation of learning objectives, providing opportunities to attend related learning events and to engage in guided self-study with related learning resources. Students are verbally encouraged at various points across the unit to reflect upon their knowledge, skills, and comfort related to learning objectives, identifying related learning needs.
2. **Identification, Analysis, & Synthesis of Information** – As students gain a sense of their learning needs, they are provided regular opportunities to interact with faculty to resolve these needs. This often occurs in weekly designated “Q&A overtime sessions,” in which faculty make themselves available for student-driven questions related to content and skills.
3. **Appraisal of Information Credibility** – Once students have synthesized their knowledge from learning activities and engaged in additional opportunities to meet learning needs as necessary, they have opportunity to appraise and apply their knowledge in collaborative sessions at the end of the unit. These are often characterized as review/help sessions, Bootcamps, or Grand Rounds-style case activities. Students are verbally encouraged to reflect on whether their learning needs have been met in relation to the course objectives.
4. **Feedback on Information-Seeking Skills** – Finally, students are provided with two opportunities for feedback at the end of each unit. The first is a formative, individual assessment completed on the Friday following review or application sessions. Students are able to take the assessment, view their scores, hear the related rationale for correct and incorrect responses, and ask clarifying questions. Over the weekend, the students can use the feedback to focus their studies. Then, the summative course exam is completed on the Monday following the unit, providing students with another point of feedback to inform related study.

Section 2 – Policies

Please refer to the [MSUCOM Student Handbook](#) for these and other policies.

Academic Honesty and Professionalism

Every student is responsible for their behavior and is expected to adhere to all MSU and MSUCOM policies of academic honesty and professionalism, as outlined in the MSUCOM Student Handbook and the MSU Medical Student Rights and Responsibilities. These documents may be found on the MSUCOM website. Additional guidance on academic integrity may be found on the MSU Ombudsperson's website at <https://ombud.msu.edu/sites/default/files/content/Academic-Integrity-at-MSU-updated-August-2017.pdf>

Incidents of academic dishonesty or professional misconduct will be addressed by the faculty, administration, or staff; such action may include, but is not limited to: giving a failing grade, referring a student for judicial review, directing the student to the Associate Dean of Medical Education, evaluation by the Committee on Student Evaluation, and other actions outlined in the Medical Student Rights and Responsibilities document.

Types of Class Sessions

MSUCOM designates lectures and other class sessions by their delivery method. While additional terms may be used in a specific course, the following will provide general guidance to the type of session:

- Live or livestream lecture:
- Online Lecture:
- Webinar:
- Lab:

Changes to Course Schedule or Requirements

Due to external circumstances, the course requirements published in the course syllabus and/or course schedule may be subject to change. Timely notification Communication regarding changes will be provided to enrolled students via the course D2L site and/or email. Any changes made will consider the MSU Code of Teaching Responsibility and the MSU Medical Students Rights and Responsibilities.

Mandatory and Optional Class Sessions

All lectures and other class sessions are considered to be integral to the course, and students are expected to attend, view, or participate in each session. Some sessions are designated as “mandatory” in that attendance at the session on the scheduled date and time is required. Depending on the course, a student may earn points for attending or participating in a mandatory session or may lose points for failing to attend or participate. Availability of make-up points for missed sessions is at the discretion of the course coordinator. Optional class sessions are offered by faculty to assist students in learning or reviewing course content.

Absences from Mandatory and Examinations/Assessments

It is the responsibility of the student to know which class sessions are deemed as mandatory and comply with the MSUCOM policy regarding absences from mandatory sessions and examinations. This policy

may be found in the MSUCOM Student Handbook on the MSUCOM website. Requests for an excused absence must be submitted via the [student portal](#).

Computer-Based Testing

It is the responsibility of each student to know and comply with the MSUCOM policy on computer-based testing. This policy may be found in the MSUCOM Student Handbook on the MSUCOM website.

Administration of quizzes, examinations, and other assessments may be self-proctored, virtual proctored, or classroom proctored. Regardless of the proctoring method, you are expected to take the exam in a quiet, private setting. Just like in a proctored exam, you are not to access notes, textbooks, references, your phone, or other materials, and you are not to interact with fellow students or others. Remember that integrity is defined as what you do when no one is looking.

You are also expected to not record, photograph, take screen shots, make notes of, or otherwise attempt to make a copy of any exam item for any purpose, including your personal use. A student who is discovered to have cheated or breached exam security will be subject to formal disciplinary action, up to and including dismissal from MSUCOM.

If you have concerns or evidence of an exam security breach on this or any exam, you may report that to an MSUCOM administrator or through the online concern form.

Medical Student Rights and Responsibilities

If problems arise between instructor and student, both should attempt to resolve them by informal, direct discussions. If the problems remain unsolved, the Associate Dean for Medical Education and/or the MSU Ombudsperson may be consulted. The MSU Medical Student Rights and Responsibilities (MSRR) document defines processes for additional steps, including submission of a formal grievance. The MSSR may be found in the MSUCOM Student Handbook and online at splife.studentlife.msu.edu.

Reef Polling (iClicker Cloud) Policy

It is your responsibility to know and comply with the Reef Polling (iClicker Cloud) Policy. This policy may be found in the MSUCOM Student Handbook. If you forget your device or if it does not work, for whatever reason, no make-up experiences will be provided, and no points will be given.

If Reef Polling is used to take attendance for an on-campus event, you will be expected to arrive to the physical location on time and to stay for the duration of the assigned activity. If Reef Polling is used to take attendance for an online event, you will be expected to start the session at the scheduled time and participate for the duration of the assigned activity.

As a matter of professionalism, please note that under no circumstances should you provide access to their iClicker Reef account to another student by sharing your device and/or account login, nor should you accept another student's device or login credentials to access Reef Polling on their behalf. Answering questions or checking in for attendance on behalf of another student by using their device or account is considered to be academic dishonesty and may result in disciplinary action up to and including dismissal from the college.

Remediation

The MSUCOM Policy for Retention, Promotion and Graduation requires successful completion of each required course to progress in the curriculum. If you receive an “N” grade in a course, that grade will be recorded on your official transcript; you must meet the course requirement by successfully remediating or repeating the course.

Eligibility to attempt remediation of the course is determined by criteria described in the “Course Grades” section of the syllabus. If you are not eligible to attempt remediation, or if you fail the remediation, you must retake the course, provided you are eligible to continue in the program as determined by the Committee on Student Evaluation.

Student Safety and Well-being

The MSUCOM website and Student Handbook provide information on student safety, campus security, access to medical care and counseling services, and to policies on injuries and exposures. If you have an injury or acute illness on campus, an incident report should be completed. The form is available on the MSUCOM intranet or from Academic Programs.

Requests for Accommodations

Michigan State University is committed to providing equal opportunity for participation in all programs, services and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities (RCPD) at 517-884-7273 or online at rcpd.msu.edu. Once eligibility for an accommodation has been determined, you may be issued a Verified Individualized Services and Accommodation (VISA) form. Each VISA includes an expiration date; to request an accommodation, you must have an active VISA. You may work with RCPD to renew a VISA.

During the preclerkship curriculum, the college will help to coordinate accommodations for additional testing time. Provide your VISA to Nancy Thoma, thoman@msu.edu, A333 East Fee Hall at the start of the term and/or at least two weeks prior to the assessment event (test, project, labs, etc.). Requests for accommodations received with less notice will be honored whenever possible. You may choose whether or not you wish to use accommodations for a particular event. For other accommodations, you may also review your VISA with the course coordinator and curriculum assistant assigned to that course.

Title IX Notifications

Michigan State University is committed to fostering a culture of caring and respect that is free of relationship violence and sexual misconduct, and to ensuring that all affected individuals have access to services. For information on reporting options, confidential advocacy and support resources, university policies and procedures, or how to make a difference on campus, visit the Title IX website at titleix.msu.edu.

Limits to confidentiality. Essays, journals, and other materials submitted for this class are generally considered confidential pursuant to the University's student record policies. However, you should be aware that University employees, including instructors, may not be able to maintain confidentiality when it conflicts with their responsibility to report certain issues to protect the health and safety of MSU

community members and others. Instructors must report the following information to other University offices (including the Department of Police and Public Safety):

- Suspected child abuse/neglect, even if this maltreatment happened when you were a child;
- Allegations of sexual assault, relationship violence, stalking, or sexual harassment; and
- Credible threats of harm to oneself or to others.

These reports may trigger contact from a campus official who will want to talk with you about the incident that you have shared. In almost all cases, it will be your decision whether you wish to speak with that individual. If you would like to talk about these events in a more confidential setting, you are encouraged to make an appointment with the MSU Counseling and Psychiatric Services.

Addendum: Course Schedule

Course schedule for the current semester will be posted to D2L. Changes to the course schedule will be noted on the class academic calendar (“Google calendar”) and communicated to students via D2L and/or email. The schedule for the most recent offering of this course will be posted on the MSUCOM website under Current Students/Preclerkship Curriculum.

Addendum 2: Mastering EKG and Rhythm Strip Interpretation

Exam One

Lecture Title - (Required and Tested)

- EKG Primer (Strobl)
- Cardiac Action Potential and ECG (DiCarlo)
- EKG Vector Doll Demonstration (DiCarlo)

EKG with DJS (Mediaspace) – Required and Tested

- Session One: The Basics
- Session Two: Axis

Exam Two

Lecture Title- (Required and Tested)

- Rhythm Strip Bootcamp (Strobl)
- EKG Bootcamp (Strobl)
- Electrophysiology (DiCarlo)
- EKG Physiology Lab incl. Vector Doll (DiCarlo)

EKG with DJS (Mediasite) – Required and Tested

- Session One: The Basics
- Session Two: Atrial Arrhythmia
- Session Three: Bundle Branch Blocks
- Session Four: Ectopy
- Session Five: Heart Block
- Session Six: Rhythm Review
- Session Seven: Hypertrophy
- Session Eight: ST-T Abnormalities

Addendum 3: eMurmur Primer and eMurmur University

eMurmur Primer is a self-paced mobile learning app that will allow you to work through graduated modules and help develop your cardiac auscultation skills - anytime and from anywhere! Through this app, you will have access to 1000+ real patient recordings that cover 60+ pathologies from newborn to elderly!

1) To activate your 1-year subscription (ending December 31, 2021):

Please use the following link to purchase: https://emurmur.com/student-payment/?product=msu2020_1 and please sign up using your @msu.edu email address.

2) To download the app:

Search "eMurmur Primer" directly on your app store or use one of the following web links:

iOS User: <http://bit.ly/a-primer>

Android User: <http://bit.ly/g-primer>

3) To log in:

Once you open the app, select "Continue with Email" from the main screen and enter your email address (same as above). You will then be required to set a password which will take you to the main screen. There will be a short tutorial when you first open the app that reviews the navigation and features of the platform.

Note: You will be able to work through the first 3 modules (Fundamentals) immediately, but access to the Intermediate and Advanced modules will only be unlocked on November 16th, 2020.

You will also need to download **eMurmur University**, an app that will be used during our synchronous sessions. Please note that you do not log in to eMurmur University.

iOS User: <http://bit.ly/a-emU>

Android User: <http://bit.ly/g-emU>

If you have any questions, feel free to contact Evan Georgakis at eMurmur.

Email: evan@emurmur.com