

OST 556 – Pediatrics I

Spring Semester 3 - 2023

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Notice to Students: Although course syllabi at MSUCOM have a consistent format, 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

OST556 Pediatrics I is a 1 credit hour course. Students will be introduced to the field of pediatrics. The first portion of PEDS I will focus on the normal growth and development of children from birth to 18 years. The second portion of this semester will focus on conditions of the nervous, musculoskeletal, endocrine and genitourinary systems that affect children.

Course Goals

The goals of Pediatrics I are to learn normal stages of growth and development for children, birth to 18 years. Integration of systems course content with clinical issues related to childhood pathology and disease prevention as related to neurology, orthopedics, endocrinology and genitourinary disorders.

Measurable Course Objectives

The American Osteopathic Association has identified osteopathic core competencies (OCC) essential for practice as a future osteopathic physician ([reference](#)). These are embedded throughout programmatic objectives and curriculum. The curricular structure also encourages proficiency in the Core Entrustable Professional Activities (EPAs) for Entering Residency as defined by the Association of American Medical Colleges to help build toward that future phase of the journey toward medical practice ([reference](#)). By the end of this specific course, learners should be able to achieve the following objectives within each competency domain indicated:

Medical Knowledge

1. Summarize anatomical and physiological structure-function relationships in the pediatric population to differentiate between normal and abnormal function. (*Biomedical Science - Anatomy/Physiology*)
2. Examine the physiologic basis of health and the pathophysiologic basis of disease through selected pediatric clinical presentations, such as those related to the nervous, musculoskeletal, endocrine, and genitourinary systems. (*Biomedical Science - Pathology/Pathophysiology*)

Patient Care and Procedural Skills

3. Practice gathering accurate, essential data from all sources, including the patient, the parent or legal guardian, secondary sources, medical records, and physical examination (including osteopathic structural examination) for selected pediatric clinical presentations. (*Data Gathering - EPA 1*)
4. Recommend and interpret common diagnostic and screening tests related to the assessment of pediatric disorders using evidence-based and cost-effective principles. (*Diagnostic Testing - EPA 3*)
5. Practice formulating a differential diagnosis for selected pediatric clinical presentations, prioritizing diagnoses appropriately based on the patient evaluation and epidemiologic data. (*Differential Diagnosis - EPA 2*)

Practice-Based Learning and Improvement

6. Practice using clinical decision-making tools and procedures, including the ability to form a clinical question and to retrieve and interpret evidence, within the context of pediatric disorders and conditions. (*Clinical Decision-Making - EPA 7*)
7. Explore common presentations in children that intersect with clinical disciplines. (*Clinical Science - Pediatrics, Clinical Science - Neuromusculoskeletal, Clinical Science - Neurology, Clinical Science - Family, Clinical Science - Internal, Clinical Science - Emergency, Clinical Science - Pathology, Clinical Science - Preventive/Occupational medicine, etc.*)

Professional Development and Reflection Skills

Additionally, the American Osteopathic Association indicates several other competencies on which professional development and reflection across time will foster effective medical practice. These include the ability to work collaboratively as part of an interprofessional team; the maintenance of an inquisitive and scientific approach to learning and medical practice; and the adoption of self-direction in lifelong learning and clinical decision-making. This course will contribute to the development of these longitudinal competencies or skills as indicated:

Self-directed learning is a 4-step process that occurs within an encapsulated timeframe. The goal of self-directed learning is to help foster self-direction in your lifelong learning and clinical decision-making. This course includes the steps of self-directed learning as follows:

1. **Self-Assessment of Learning Needs** – Students are presented with a patient case and must reflect on related knowledge to isolate learning needs.
2. **Identification, Analysis, & Synthesis of Information** – Students then have the opportunity to seek out and synthesize related information through activities such as initiating virtualized patient history taking and physical examinations along with related research.
3. **Appraisal of Information Source Credibility** – Once students have synthesized gathered information, they have the opportunity to appraise and apply their knowledge through the formulation and prioritization of differential diagnoses. Initiation with learning aids that highlight distinguishing features of differentials aids students in appraising the credibility of identified differentials.
4. **Feedback on Information-Seeking Skills** – Throughout the platform, students are provided feedback on their information seeking through interactive questions that provide explanations for preferred responses and next steps. Additionally, the learning aids assist in providing feedback by further educating students on a variety of diagnoses to inform next steps.

Course Coordinator

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

Name: Melissa Rosenberg, M.D.

Phone: 517-353-3100

Email: Rosen119@msu.edu (*preferred method*)

Address: 909 Wilson Road room B547, East Lansing, MI 48824

Course Faculty

Name	Email	Phone	Site
Melissa Benbow, M.D.	Benbowm@msu.edu	517-353-3100	EL
Rachel Christensen, D.O.	Rchrste@msu.edu	517-353-3100	EL
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Diane Hristova, M.D.	Hristov3@msu.edu		DMC
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Rachel Rosenbaum, D.O.	rosenba9@msu.edu		EL
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Growth & Development Case Studies Facilitators

Name	Email	Phone	Site
Melissa Benbow, M.D.	Benbowm@msu.edu	517-353-3100	EL
Richard Bryce, D.O.	Bryceri1@msu.edu		DMC
Joel Greenberg, D.O.	Greenbe1@msu.edu	517-353-3100	EL
Haley Pope, D.O.	popeh@msu.edu		MUC
Christine Sims, D.O.	csims@msu.edu	517-353-3100	EL

Curriculum Assistants

Site	Name	Email	Phone
East Lansing	Gini Larson	larsonv2@msu.edu	
DMC	Papiya Saha	sahapapi@msu.edu	
MUC	Simone Jennings	sj@msu.edu	

Lines of Communication

- For administrative aspects of the Course: contact the course coordinator.
- For content questions relating to a specific lecture or topic: contact the faculty presenter for that specific portion of the course or your SE MI on-site instructor.
- 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.

Office Hours

Questions concerning may be discussed individually by making an appointment with the Course Coordinator, *Dr. Rosenberg*, East Fee Hall room B547, via e-mail: rosen119@msu.edu.

Course Web Site

The URL for the Course website is: <https://com.msu.edu/current-students/preclerkship-medical-education/preclerkship-year-2-courses>

Textbooks and Reference Materials

Required

Nelson Essentials of Pediatrics, 9th edition, 2022, ISBN# 978-0323775625 ([Digital Copy of Nelson Essentials of Pediatrics](#)).

Recommended

Nelson Textbook of Pediatrics, 21st edition, 2020 ISBN# 9780323529501 ([Digital Copy of Nelson Textbook of Pediatrics](#)).

Course-based Academic Support

The course faculty are here to facilitate your learning. 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 through MSUCOM Academic and Career Guidance and MSUCOM Personal Counseling.

Course Begin and End Dates

OST 556 begins on January 10th, 2023 and ends on April 25th, 2023. 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.

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.

Assessments	Projected Points	Material to be Covered
Growth & Development Case Studies 1/27/23	5	Content from Growth & Development Case Studies Zoom Meeting
S3UE2 1/30/23	16	<ul style="list-style-type: none">• G & D: Infant/Toddler• G & D: School Age Child• G & D: Adolescent Health• Children with Medical Complexity
S3UE3 2/13/23	16	<ul style="list-style-type: none">• Developmental Disorders• Hypotonic Infant• Note: Pediatric content in the OST571 lectures "036 - Headaches" and "059 - Seizures" will be assessed on the OST556 exam.
Aquifer Pediatric Cases Open from 1/10/23 - 2/24/23	3	Case 04
S3UE5	8	<ul style="list-style-type: none">• Pediatric Orthopedics and Scoliosis

Assessments	Projected Points	Material to be Covered
3/3/23		<ul style="list-style-type: none"> • Pediatric Rheumatology
S3UE8 4/14/23	4	<ul style="list-style-type: none"> • Pediatric Nephrology
S3UE9 4/24/23	12	<ul style="list-style-type: none"> • Pediatric Endocrinology • Pediatric UTI and Reflux Nephropathy • Hypospadias, Cryptorchidism

Attendance for Growth & Development Case Studies

The grade for the “Growth & Development Case Studies” will be based on a 5 question D2L quiz that will be opened at the end of the workshop. You must be present in the Zoom Meeting for the “Growth & Development Case Studies” for your quiz to be counted.

Course Grades

The course faculty determine the threshold for satisfactory performance in each preclerkship course. Your course grade will be determined by the following formula:

$$\frac{(\text{Points acquired in all exams and assessments})}{(\text{total possible points})} \times 100\% = \text{Final Percent Score}$$

- **P-Pass**—means that you have achieved a satisfactory level of performance and will receive credit for this course. To obtain a “P” grade for this course, you must earn a final percent score of 70%.
- **N-No Grade**—means that you have not achieved a satisfactory level of performance and no credit will be granted for this course. If you earn a final percent score below 70%, you will receive an “N” grade.
- **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 60 % or greater, and
 - Have sat for all course exams

The remediation opportunity for this course will be by examination. Passing is 70%.

All remediation exams for Semester 3, SS22 are scheduled for May 10th or May 11th, 2022. 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:** Feel free to approach the Course Coordinator, Dr. Melissa Rosenberg, or any of the other course faculty with your reactions and suggestions. Ad hoc Evaluations are available for immediate feedback on course sessions and faculty. Students can access the evaluation system at: [MSUCOM Pre-clerkship Evaluation System](#); on the “Home Page, see “Initiate Ad hoc Evaluations” under “Tasks”.

- **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 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](#).

Section 2 – Policies

Please refer to the Student Handbook at <https://com.msu.edu/current-students/student-handbook-course-catalog> 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: broadcast at a designated time; intended to be viewed synchronously
- Online Lecture: recorded content, may be viewed asynchronously
- Webinar: more interactive session where student participation is expected
- Lab: may refer to on-site clinical skills training or online lab session; see details

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.

iClicker Student Policy

It is your responsibility to know and comply with the iClicker Student 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 iClicker Student 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 iClicker Student 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 your iClicker Student 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 iClicker Student 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.

Academic Support Resources at MSUCOM

As a way to acclimate you to the curriculum at MSUCOM, we have created a program called On Target: <https://michiganstate.sharepoint.com/sites/OnTargetforAcademicSuccess>

On this site you will find semester roadmaps which gives a general overview of each semester, tools needed to be successful in the curriculum and targeted resources for your unique learning situation. In each semester’s road map, you will also find course expectations, tips for success, potential trouble spots, longitudinal course integration, and specific course study guides.

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.