New Progress

- Major Curricular Modification Notification Form dated March 30th 2021 was submitted to the Liaison Committee on Medical Education (LCME).
  - Transition to curriculum with foundational and organ-system based blocks.
  - Earlier start of clinical clerkships by four weeks, each, for the Classes of 2024 and 2025.
  - Two-week overlap between outgoing and incoming classes will be addressed by non-clinical activities, orientation/simulations and assessments, respectively, to limit actual clinical overlap to no more than three days.
  - The LCME reviewed this form at its June 15-17th 2021 meeting and determined that the resources appear adequate to support the proposed changes.

- Phase 1: Organ System Based curriculum started with Class of 2025 that began in August of 2021.
  - Timeline and block directors for all blocks have been established, and block directors for AY 2021-2022 have been appointed.
  - DOME hosted two retreats in June and July of 2021 to discuss and coordinate the details of the blocks.
  - The redesigned curriculum officially launched on August 9 with the first block, now called “Anatomy, Histology and Embryology (AHE)” (formerly Clinically Oriented Anatomy, COA), to reflect the evolution of all blocks within the curriculum. The other blocks will follow the content distribution outlined below.
  - Ongoing modifications/optimizations continue to be made to longitudinal curricular components; these include integrating additional content in biostatistics/epidemiology, health systems science, diversity/equity/inclusion, clinical reasoning, and physical examination skills training. Loci for these topics include the P3 and DOCS experiences as well as the Phase 1 blocks.

- Phase 2: Clinical Clerkships will continue with six 8-week core clerkships. It is currently being discussed how to better integrate Health System Science topics and other longitudinal curricular components into this phase.

- Phase 3: Dedicated time period for residency interviewing has been approved by CEPC to minimize impact on advanced clinical training and other curricular components.

Updated Curriculum Scheme for the Class of 2025
<table>
<thead>
<tr>
<th>September 2022</th>
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</table>

**Periods:**

- **Period 1:** September 1 to September 15
- **Period 2:** September 16 to September 30
- **Period 3:** October 1 to October 15
- **Period 4:** October 16 to October 31
- **Period 5:** November 1 to November 15
- **Period 6:** November 16 to November 30
- **Period 7:** December 1 to December 15
- **Period 8:** December 16 to December 31
- **Period 9:** January 1 to January 15
- **Period 10:** January 16 to January 31
- **Period 11:** February 1 to February 15
- **Period 12:** February 16 to February 28
- **Period 13:** March 1 to March 15
- **Period 14:** March 16 to March 31
- **Period 15:** April 1 to April 15
- **Period 16:** April 16 to April 30
- **Period 17:** May 1 to May 15
- **Period 18:** May 16 to May 31
- **Period 19:** June 1 to June 15
- **Period 20:** June 16 to June 30
- **Period 21:** July 1 to July 15
- **Period 22:** July 16 to July 31
- **Period 23:** August 1 to August 15
- **Period 24:** August 16 to August 31
- **Period 25:** September 1 to September 15
- **Period 26:** September 16 to September 30

**Clerkships:**

- **Clerkship 1 start:** 5/8/23
- **Clerkship 2 start:** 7/3/23
- **Clerkship 3 start:** 8/28/23
- **Clerkship 4 start:** 10/3/23
- **Clerkship 5 start:** 1/2/24
- **Clerkship 6 start:** 2/26/24
- **Clerkship 6 end:** 4/19/24
- **Step 2 CK end:** 5/17/24

**OSCEs:**

- **OSCE 1:** 7/21/23
- **OSCE 2:** 4/25/24
Refined Goals of the Curriculum Redesign

- Provide students with the opportunity to accelerate entry into the clinical curriculum by converting the current two-pass education program into an integrated, one-pass, organ-system-based curriculum.
- Utilize a comprehensive curriculum mapping project to fully integrate content throughout the pre-clerkship curriculum and remove redundancy.
- Utilize national curricular standards (USMLE Content Outline, discipline-specific curricula) to ensure that students are prepared for clinical clerkships as well as to succeed on national standardized examinations.
- Expand current curricular content in areas such as interprofessional collaboration, technological innovation and public health to prepare students for their future practice environments.
- Expand and integrate clinical skills training to enhance learning in diagnosis and clinical reasoning.

New progress

The CEPC approved the proposed curricular structure (see October 2020 progress report below) on November 19th, 2020, in principle. The pre-clerkship curriculum (Phase 1) will consist of the following courses/blocks starting with the Class of 2025 that will begin in fall of 2021:

- Clinically Oriented Anatomy (a cadaver-dissection based anatomy block with integrated microanatomy)
- General Principles (general principles of biochemistry, cell biology and microbial biology)
- Organ Systems 1 (physiology and pathophysiology of the immune, hematopoietic and cardiovascular systems)
- Organ Systems 2 (physiology and pathophysiology of the renal and respiratory systems)
- Organ Systems 3 (physiology and pathophysiology of the gastrointestinal, musculoskeletal, connective tissue and integumentary systems)
- Organ Systems 4 (physiology and pathophysiology of the neurological and reproductive systems and behavioral science)
- Organ Systems 5 (physiology and pathophysiology of the endocrine system and multisystem disorders)
- P3/DOCS (an integrated doctoring course matching clinical skill training and topics in health systems science, population health, interprofessional education, interpersonal communication, professionalism, medical ethics and humanities, and critical appraisal of evidence to content in the organ system blocks).

The start and end dates for these blocks have been determined for the 2021-2022 academic year. For each block teams have been assembled and tasked with developing the curriculum following Kern’s six step approach. A proposed schedule format for a typical week has been developed.
## Proposed Curricular Structure
### Curriculum Overview

**Class of 2025**

<table>
<thead>
<tr>
<th>Phase 1</th>
<th>Phase 2</th>
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<tr>
<td>2021-2022</td>
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**Note:** Organ system modules of 3-6 weeks end with a week for remediation and/or P3 (clinical integration, communication, public health, interprofessional development)

### Phase 1
- **2021-2022**
  - **P3**
  - **Clinically Oriented Anatomy** 12 Weeks
  - **General Principles** 8 Weeks
  - **Organ Systems 1:** Immune & Hematopoietic, Cardiovascular
  - **Organ Systems 2:** Renal, Respiratory 7 weeks
  - **Organ Systems 3:** Gastro, Musc, Nerv, Skin
  - **Organ Systems 4:** Immune, Behav, Repro 13 weeks
  - **Organ Systems 5:** Endocrine, Multorgan 8 Weeks

**Development of Clinical Skills 1**

### Phase 2
- **2022-2023**

**Transition**
- 2 Weeks

**Clerkships**

**Integration Seminar**

### Phase 3
- **2023-2024**

**Clerkships**

**Integration Seminar**

**Advanced Clinical Training**

**TRIAL**

**Note:** Clerkships can be taken in any order. Clerkships: Family Medicine, Internal Medicine, OB/GYN, Pediatrics, Psychiatry and Surgery. Rotations can begin 2 weeks after completion of clerkships. Rotations (Sub-Internship, Ambulatory, Critical Care and Electives) and available time can be taken in any order.

### Phase 4
- **2024-2025**

**Advanced Clinical Training**

**TRIAL**

**Note:** Rotations (Sub-Internship, Ambulatory, Critical Care and Electives) and available time can be taken in any order.

TRIAL = Transition to Residency: Individualized Asynchronous Learning

Curriculum Draft 2020-12-11
Background
In February of 2020, the Associate Dean of Academic Affairs with support from the Dean of the School of Medicine, created the Curriculum Redesign Steering Committee. This group was tasked with leading a redesign of the 4-year School of Medicine MD curriculum. The impetus for change was an effort to refresh our curriculum of more than a decade to reflect current best practices in pacing and course structure, as well as to respond to the NBME’s decision to use pass/fail grading for the USMLE Step1 exam.

The steering committee began to meet at the beginning of the Covid-19 pandemic and for several months met sporadically due to other acute pressures on the curricular and student affairs aspects of the School of Medicine. Over the past three months, the committee has met 2-3 hours per week with a primary focus on refining the plans for the first phase of the curriculum. The committee has welcomed several faculty members as guests and experts to think about various aspects of the curriculum redesign and has sought feedback in various faculty and committee meetings.

Goals of the Curriculum Redesign
- Streamlining the pre-clerkship curriculum to a one-pass, organ-system based design allowing earlier entry into the clinical environment
- Increasing integration of clinical and basic science topics throughout all phases of the curriculum
- Enhancing focus on clinical skill development and mastery throughout the curriculum and culminating with an expanded final curricular phase focused on preparation for residency training

Progress to date

Needs Assessments (General and Targeted)
- The committee has utilized the published literature, review of curricula at multiple other schools, and other internal and external resources to inform the general needs assessment regarding the curricular redesign.
- The committee’s targeted needs assessment has focused on student performance data, student satisfaction data from formal surveys, informal measures of student satisfaction and faculty feedback, and student and faculty assessments of student entrustability via the Core Entrustable Professional Activities Prior to Entering Residency from the AAMC.

Goals and Objectives
- The committee has reviewed overall goals and objectives for the curriculum and, with faculty direction, will continue to assess and modify the goals and objectives for specific curricular units.

Educational Strategies
- Throughout the four-year curriculum, the redesign process will develop guidance and resources regarding increasing the proportion of active learning opportunities and settings for clinical learning.
**Implementation**

- The general structure of the organ-systems content of phase 1 of the curriculum has been developed. Phase 1 will comprise the pre-clinical curriculum beginning in August of students’ first year and extending to about the end of February of their second year. Please see below for additional detail about proposals for curricular structure.
- Recommendations have been made regarding additional structural aspects of the development of clinical skills and introduction to clinical medicine courses in later phases.

**Evaluation and Assessment**

- The evaluation plan for the curriculum redesign process will be considered in concert with the current efforts to revise the program evaluation process for the MD curriculum.
- Assessment strategies for all phases of the curriculum have been discussed and recommendations will be presented to the appropriate committees over the coming months.

**Proposed Curricular Structure**

**Curriculum Overview**

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<th>Class of 2025</th>
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<td>Organ Systems 1: Immune &amp; Hematopoietic 12 Weeks</td>
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<td>Organ Systems 2: General Principles 11 Weeks</td>
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<td>Organ Systems 3: Gastro, Musculoskeletal 10 Weeks</td>
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<td>Organ Systems 4: Endocrine, Multiorgan 8 Weeks</td>
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<td>Organ Systems 5: Transition 7 Weeks</td>
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**Note:** Each organ system module of 3-6 weeks ends with a week for remediation and integration/P3 (clinical integration, communication, public health, interprofessional development)

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<td>Development of Clinical Skills 2</td>
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- Rotations can begin 2 weeks after completion of clerkships
- Rotations (Sub-Internship, Ambulatory, Critical Care and Electives) and available time can be taken in any order.

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<thead>
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<th><strong>Phase 3</strong></th>
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**Note:** Year 4 Rotations (Sub-Internship, Ambulatory, Critical Care and Electives) and available time can be taken in any order.

- TRIAL = Transition to Residency: Individualized Asynchronous Learning

**Phase 1: Foundations of Medicine**

- Enhanced integration of physiology, pathophysiology, and pharmacotherapy
  - Single-pass organ-system based curriculum
  - Less but specifically-planned redundancy
  - More engagement through active learning modes
- Enhanced introduction to clinical medicine

**Phase 2: Core Clerkships**

- Earlier start of the core clerkship phase in the spring of the second year
- Enhanced incorporation of basic science topics including health systems science and diagnostic reasoning skills throughout the clinical phase of the curriculum
- Early specialty experience

**Phase 3: Advanced and Additional Clinical Experiences**

- Opportunities for earlier career exploration, electives, and clinical skill mastery
Curriculum Detail for Phase 1, Foundations of Medicine

Co 2025, Phase 1

**Fall 1**
- Clinically Oriented Anatomy Block
- General Principles Block

**Spring 1**
- Organ Systems 1 Block
  - Immune, Hematopoietic Module
  - Cardiovascular Module
- Organ Systems 2 Module
  - Renal Module
  - Respiratory Module

**Fall 2**
- Organ Systems 3 Module
  - Gastrointestinal Module
  - Skin and connective tissue, Musculoskeletal Module
- Organ Systems 4 Module
  - Nervous Module
  - Reproductive Module

**Spring 2**
- Organ Systems 5 Module
  - Endocrine Module
  - Multisystem Module

Phase 1, Foundations of Medicine

Phase 2, Clerkships

Phase 3, Advanced Clinical Training

- OS modules focus on integration of Physiology, Pathophysiology, Pharmacology
- Interspersed weeks for
  - Remediation
  - P3/DOCS
    - Clinical Medicine
    - Clinical Skills
    - Public Health
    - P3
    - Interprofessional development
    - Professional identity formation

Phase 1, Foundations of Medicine
## Steering Committee Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Position, Department</th>
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</thead>
<tbody>
<tr>
<td>Samuel Campbell MD</td>
<td>Professor of Surgery; Assistant Dean for Clinical Sciences</td>
</tr>
<tr>
<td>Lauren Cobbs MD, MEd</td>
<td>Associate Professor of Medical Education; Associate Dean for Student Affairs</td>
</tr>
<tr>
<td>Ebstesam Islam, MD, PhD</td>
<td>Assistant Professor of Internal Medicine; Chair of the Curriculum and Educational Policy Committee</td>
</tr>
<tr>
<td>Michaela Jansen, PharmD, PhD</td>
<td>Associate Professor Cell Physiology and Molecular Biophysics; Assistant Dean for Basic Sciences</td>
</tr>
<tr>
<td>Lara Johnson, MD, MHS</td>
<td>Professor of Pediatrics; Director of the Year 4 Curriculum</td>
</tr>
<tr>
<td>Betsy Jones, EdD</td>
<td>Professor and Chair, Department of Medical Education</td>
</tr>
<tr>
<td>Brian Pomeroy, MD, MEd</td>
<td>Associate Professor of Pediatrics; Assistant Dean of Assessment and Program Evaluation</td>
</tr>
<tr>
<td>Simon Williams, PhD</td>
<td>Professor of Medical Education; Associate Dean for Academic Affairs</td>
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