Curriculum Transformation Update

Quillen College of Medicine

April 27, 2021
Curriculum Transformation Steering Committee (CTSC)

- Dr. Ken Olive (oversight)
- Dr. Ivy Click, chair
- Dr. Brian Cross
- Dr. Beth Fox
- Dr. Tom Kwasigroch
- Dr. Jason Moore
- Dr. Rob Schoborg
- Mr. David Taylor (MS4)
Why are we changing the curriculum?

1. Accreditation elements LCME determined to be unsatisfactory related to integration and coordination of the curriculum.
2. Student dissatisfaction with integration of the current curriculum.
3. Desire to increase student and faculty engagement.
4. Our curriculum may be viewed as outdated by potential students. A more modern/innovative curriculum could be more appealing to potential students.
What have we done so far?

MSEC Curriculum Decisions & Recommendations
January 2020
- MSEC curriculum review starts

April
- MSEC curriculum review reports

May
- 5/13 CTSC formed
- First draft Guiding Principles

June
- David Taylor joins CTSC
- ECU Brody
- Guiding Principles survey

July
- UNC
- Wright State

August
- Marshall
- USD Sanford
- Finalized Guiding Principles

September
- 9/22 Town Hall

October
- MSEC approves CTSC recs
New Curriculum Recommendations
Approved October 2020

• New Curriculum Structure:
  • Increased horizontal and vertical integration
    • Foundations of Medicine followed by organ systems-based courses
    • Increased early clinical experience
    • Increased basic science in clinical phase

• Increased active learning
• Philosophy of *assessment FOR learning*
• Implementation of Learning Communities
• Framework must be compatible with 3-year track and rural primary care track
January 2021
- Curriculum Consultant: Dr. Lindsey Henson

February
- M1 start date
- Pre-clerkship length

March
- Foundations length
- Sequence of organ systems

April
- Structure of the typical week
- Assessment & Pedagogy model
- Town Hall

May
- Community Medicine proposal
- Basic science in clinical phase

June
- Core clerkships
- Learning Communities
- Presentation ready for applicants
Step 1 News:

ANNOUNCEMENTS

Step 1 pass/fail score reporting implementation date
Posted: April 20, 2021

United States Medical Licensing Examination® (USMLE®)
Step 1 score reporting will transition to pass/fail outcomes only for administrations on or after January 26, 2022.

Learn more »
New Curriculum Schematic & Courses
New Quillen Curriculum

TRAILS

Team-based Rural Applied Integrated Learning System
Pre-Clerkship Courses

• Foundations of Medicine
• Immunology/Hematology
• Cardiovascular/Pulmonary/Renal
• GI/Nutrition
• Endocrine/Reproduction
• Neuro/Behavior/MSK
• Doctoring – one course per semester
# ETSU Quillen COM New Curriculum Schematic

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pre-clerkship Phase</strong></td>
<td><strong>Pre-clerkship Phase</strong></td>
<td><strong>Clerkship Phase</strong></td>
<td><strong>Post-clerkship Phase</strong></td>
</tr>
<tr>
<td><strong>July</strong></td>
<td><strong>August</strong></td>
<td><strong>September</strong></td>
<td><strong>October</strong></td>
</tr>
<tr>
<td>Pre-clerkship Phase</td>
<td>Pre-clerkship Phase</td>
<td>Clerkship Phase</td>
<td>Post-clerkship Phase</td>
</tr>
<tr>
<td><strong>Clinical Clerkship</strong></td>
<td><strong>Clinical Clerkship</strong></td>
<td><strong>Clinical Clerkships</strong></td>
<td><strong>Selectives</strong></td>
</tr>
<tr>
<td><strong>Doctoring</strong></td>
<td><strong>Doctoring</strong></td>
<td><strong>Doctoring</strong></td>
<td><strong>Selective Electives</strong></td>
</tr>
</tbody>
</table>

## Notes:
Advanced basic science included at beginning of Post-clerkship Phase as placeholder. Could be distributed in other ways.
**Notes:** Advanced basic science included at beginning of Post-clerkship Phase as placeholder. Could be distributed in other ways.
Instruction & Assessment
Recommendations
Typical Weekly Schedule: Pre-clerkship

• **Consistent, predictable** schedule for students across the pre-clerkship curriculum

• 20-24 hours of scheduled contact time
  • Blocks of protected self-directed study time (half days)
  • Four half-days of basic science course content per week
  • Half-day of Doctoring clinical skills
  • Clinical Preceptorship starting Spring M1, every other week

• Learning Community time every 4-6 weeks in afternoon
Instruction Recommendations

• All learning activities should be based on active learning
  • Team-based learning (TBL)
    • 3-4 days per week
  • Case-based learning (CBL)
    • One day per week, case covered over 2 consecutive weeks
  • Interactive large group sessions
    • Other active learning modalities

• Doctoring
  • Align/integrate with systems courses
  • Developing objectives

What do we want our students to know by the time they enter clerkships?
## Example Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>8:00-8:50</td>
<td>TBL</td>
<td>Human Structure: (Anatomy, Embryology, Histology)¹</td>
<td>TBL</td>
<td></td>
<td>CBL or Doctoring: SPECTRM²</td>
</tr>
<tr>
<td>9:00-9:50</td>
<td></td>
<td>or Simulation or other course sessions</td>
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<td></td>
<td>TBL</td>
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<tr>
<td>10:00-10:50</td>
<td>Interactive Large Group</td>
<td>Interactive Large Group</td>
<td></td>
<td>SDST</td>
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<tr>
<td>11:00-11:50</td>
<td>Interactive Large Group</td>
<td>Interactive Large Group</td>
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<tr>
<td>12:00-12:50</td>
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<tr>
<td>1:00-1:50</td>
<td>SDST</td>
<td>Doctoring: Clinical Preceptor</td>
<td>Learning Community Activity (~every 4-6 weeks) or SDST</td>
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<tr>
<td>2:00-2:50</td>
<td></td>
<td>Every other week</td>
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<td>3:00-3:50</td>
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<td>Day of week varies among students</td>
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<td>4:00-4:50</td>
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</table>

¹ Human Structure every day during Foundations; every 2-3 weeks during systems courses
² SPECTRM: System, Professional, Ethical, and Community Topics Relevant to Medicine
Assessment Recommendations

• Emphasis on **formative assessment**

• **Continuous, progressive, low-stakes** assessments leading up to a final assessment with somewhat higher stakes
  • In-class formative assessments
    • IRAT/TRAT, Audience Response, Anatomy quizzes
  • End-of-week assessments
    • NBME-format MCQs, short answer/essay from CBL, Anatomy written questions
    • Includes portion of **cumulative material** and have **progressive increasing stakes**

• Lab practical exams

• Final exam
  • NBME Customized Exam, plus short answer/essay from CBL
Example: Continuous Assessment, Progressive System (CAPS)

<table>
<thead>
<tr>
<th>Type of Assessments</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
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<td>20%</td>
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<tr>
<td>End-of-week assessments</td>
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<td>45%</td>
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<tr>
<td>Lab practical</td>
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<td>20%</td>
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</table>

Percentage Points by Week
Implementation Groups

- Foundations (Schoborg)
- Instruction & Assessment (Rusinol)
- Online Resources (Hayman)
- Doctoring (Amadio/Mullersman)
- Community Medicine (Kincer)
- Learning Communities (Pierce)
- CMS Work Group (Click)
- Accelerated Track (Fox)
- Clinical Phase (TBD)
Curriculum Transformation Student Group

Erin Lutz Bailey, Beth Farabee, Whitney Pittman, David Taylor

Gina Botsko, Ben Hopkins, Abbi Laszacs, Sarah Allen Ray
What’s next?
July-Nov 2021
- Plan pre-clerkship courses
- Includes Doctoring changes

March 2022
- M1 Fall semester details ready

October 2022
- M1 Spring semester details ready

March 2023
- M2 details ready

July 2023
- Launch Year 2
- Launch Accel Track

December 2021
- Submit major curricular change to LCME

July 2022
- Launch Year 1 of new curriculum

December 2022
- Submit Accelerated Track to LCME

May 2023
- Clerkship transition year
Next Steps

• Pre-clerkship Course Directors, Co-Course Directors and design teams
  Foundations, Antonio Rusiñol
  Immunology/Hematology, Russ Hayman

• Community Medicine and other clinical phase changes?
• Learning Communities implementation
• Planning Accelerated Track
Quillen TRAILS Curriculum

Where will the TRAIL lead you?