

Curriculum Transformation Update

Quillen College of Medicine

April 27, 2021



EAST TENNESSEE STATE
UNIVERSITY

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 Our curriculum may be viewed as outdated by potential students.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.





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What have we done so far?

MSEC Curriculum Decisions & Recommendations

January 2020

- MSEC curriculum review starts

May

- 5/13 CTSC formed
- First draft Guiding Principles

July

- UNC
- Wright State

September

- 9/22 Town Hall

April

- MSEC curriculum review reports

June

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

August

- Marshall
- USD Sanford
- Finalized Guiding Principles

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

March

- Foundations length
- Sequence of organ systems

May

- Community Medicine proposal
- Basic science in clinical phase

February

- M1 start date
- Pre-clerkship length

April

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

June

- Core clerkships
- Learning Communities
- Presentation ready for applicants

Step 1 News:



Home Bulletin FAQs Applications & Fees Security Step Examinations P

ANNOUNCEMENTS

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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 »](#)



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New Curriculum Schematic & Courses



New Quillen Curriculum

TRAILS

Team-based Rural Appplied 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

		July			August				September					October					November				December				January					February					March				April				May				June							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52			
Year 1	Pre-clerkship Phase																																																							
	Immersion	Foundations 13 weeks													Immuno/Heme 6 weeks						Assess	Winter Break	Cardiovascular/Pulmonary/ Renal 14 weeks														Spring Break	Cardiovascular/ Pulmonary/ Renal 14 weeks					GI/Nutrition 5 weeks				Assess	Break 9 weeks								
		Doctoring																		Doctoring																																				
Year 2	Pre-clerkship Phase																															Clerkship Phase																								
	Break	Endo/Repro 6 weeks					Brain, Body, Behavior 13 weeks													Assess	Winter Break	Step 1 Study 6 weeks						Transitions + Basic Science	Clinical Clerkships																											
		Doctoring																				Doctoring																																		
Year 3	Clerkship Phase																															Post-clerkship Phase																								
	Clinical Clerkship																		Winter Break	Clinical Clerkships												Advanced Basic Science	Selectives Electives Flex time																							
	Doctoring																			Doctoring																																				
Year 4	Post-Clerkship Phase																																																							
	Selectives Electives Flex time																		Winter Break	Selectives Electives Flex time														Keystone Course	Break	Graduation																				

Notes: Advanced basic science included at beginning of Post-clerkship Phase as placeholder. Could be distributed in other ways.



M1 starts 3rd week of July
Mission-based clinical immersion

Pre-clerkship ends
Dec of M2

Clerkships start in March

ETSU Quillen COM New Curriculum Schematic																																																							
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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



Example Schedule

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

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)

Type of Assessments	Percentage Points by Week													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	
In-class assessments	1%	1%	1%	1%	2%	2%	2%	2%	2%	2%	2%	2%		20%
End-of-week assessments	2%	2%	3%	3%	3%	4%	4%	4%	5%	5%	5%	5%		45%
Lab practical				5%				5%					5%	15%
Final assessment													20%	20%



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



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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





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Quillen TRAILS Curriculum

Where will the TRAIL lead you?