Introducing the TRAILS Curriculum at Quillen

Ivy Click, Ed.D.
October 20, 2021
New Quillen Curriculum

TRAILS

Team-based Rural Applied Integrated Learning System
Recommendations for New Curriculum

MSEC Approved October 2020
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
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 »
TRAILS Curriculum
Courses & Schematic
Overview

- 3 semesters of systems-based courses
- Summer in June and July between M1 and M2 years
- 6 weeks of dedicated Step 1 study time
- 1 year of clerkship starting in March
- A little over 1 year of Senior elective and selectives
TRAILS Pre-Clerkship Courses

- Foundations of Medical Knowledge
- Immunology/Hematology
- Cardiovascular/Pulmonary/Renal
- GI/Nutrition
- Endocrine/Reproduction
- Brain, Body, & Behavior (Neuro/MSK/Behav)
- Doctoring – one course per semester
# ETSU Quillen COM TRAILS Curriculum Schematic

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Pre-clerkship Phase</th>
<th>Clerkship Phase</th>
<th>Post-clerkship Phase</th>
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<tbody>
<tr>
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<tr>
<td></td>
<td>Foundations</td>
<td>Cardiovascular/Pulmonary/Renal</td>
<td>Clinical Clerkships</td>
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<tr>
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<td>13 weeks</td>
<td>14 weeks</td>
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<td>Selectives (8 weeks)</td>
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<td>Electives (22 weeks)</td>
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<td>Flex time (22 weeks)</td>
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<th>Year 2</th>
<th>Pre-clerkship Phase</th>
<th>Clerkship Phase</th>
<th>Post-clerkship Phase</th>
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<tr>
<td></td>
<td>Endo/Repro</td>
<td>Step 1 Study</td>
<td>Selectives (8 weeks)</td>
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<td>6 weeks</td>
<td>6 weeks</td>
<td>Electives (22 weeks)</td>
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<td>13 weeks</td>
<td>Trans to CC+/Basic Science</td>
<td>Flex time (22 weeks)</td>
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<td>Winter Break</td>
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<td></td>
<td>Brain, Body, Behavior</td>
<td>Winter Break</td>
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<td>13 weeks</td>
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<tr>
<th>Year 3</th>
<th>Pre-clerkship Phase</th>
<th>Clerkship Phase</th>
<th>Post-clerkship Phase</th>
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<td></td>
<td>Clinical Clerkship</td>
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<td>Winter Break</td>
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<td>Winter Break</td>
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<th>Year 4</th>
<th>Pre-clerkship Phase</th>
<th>Clerkship Phase</th>
<th>Post-clerkship Phase</th>
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<td></td>
<td>Selectives (8 weeks)</td>
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<td></td>
<td>Electives (22 weeks)</td>
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<td></td>
<td>Flex time (22 weeks)</td>
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</tbody>
</table>

**Notes:** Step 2 study period suggested - not approved by MSEC yet
### ETSU Quillen COM TRAILS Curriculum Schematic

#### Year 1
- **Pre-clerkship Phase**
  - Foundations 13 weeks
  - Immuno/Heme 6 weeks
- **Doctoring**
- **Clerkship Phase**
  - Cardiovascular/Pulmonary/Renal 14 weeks
  - Assess
  - Winter Break
  - Spring Break

#### Year 2
- **Pre-clerkship Phase**
  - Endo/Repro 6 weeks
  - Brain, Body, Behavior 13 weeks
- **Doctoring**
- **Clerkship Phase**
  - Step 1 Study 6 weeks
  - Trans to CC + Basic Science
  - Clinical Clerkships
- **Post-clerkship Phase**
  - Doctoring

#### Year 3
- **Clerkship Phase**
  - Clinical Clerkship
- **Post-clerkship Phase**
  - Step 2 Study 4 weeks
  - Selectives (8 weeks)
  - Electives (22 weeks)
  - Flex time (22 weeks)

#### Year 4
- **Post-Clerkship Phase**
  - Selectives (8 weeks)
  - Electives (22 weeks)
  - Flex time (22 weeks)

#### Notes:
- Step 2 study period suggested - not approved by MSEC yet
- M1 starts 3rd week of July
- Mission-based clinical immersion
- Pre-clerkship ends Dec of M2
- Clerkships start in March
- Immersion
- Break 9 weeks
- Cardiovascular/Pulmonary/Renal 14 weeks
- Day 2 Study 6 weeks
- Trans to CC + Basic Science
- Selectives (8 weeks)
- Electives (22 weeks)
- Flex time (22 weeks)
- Keystone Course
- Break
- Graduation
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
  • Continue to use active learning methods
  • Align/integrate with systems courses
# Typical Week in the M1 Year

<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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<tbody>
<tr>
<td>8:00-8:50</td>
<td>TBL</td>
<td></td>
<td>TBL</td>
<td>Human Structure: (Anatomy, Embryology, Histology)(^1)</td>
<td>PBL or Doctoring: SPECTRM(^2)</td>
</tr>
<tr>
<td>9:00-9:50</td>
<td></td>
<td>SDST</td>
<td></td>
<td>or Simulation or other course sessions</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>
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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>
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<td></td>
<td>Doctoring: Clinical Preceptor</td>
<td>Learning Community Activity (~every 4-6 weeks) or SDST</td>
<td></td>
</tr>
<tr>
<td>2:00-2:50</td>
<td>SDST</td>
<td></td>
<td></td>
<td>Doctoring: Clinical Skills</td>
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</tr>
<tr>
<td>3:00-3:50</td>
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<td></td>
<td></td>
<td>SDST</td>
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<tr>
<td>4:00-4:50</td>
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\(^1\) 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>Percentage Points by Week</th>
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<tbody>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td>In-class assessments</td>
<td>1%</td>
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<tr>
<td>End-of-week assessments</td>
<td>2%</td>
</tr>
<tr>
<td>Lab practical</td>
<td>5%</td>
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<tr>
<td>Final assessment</td>
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Total: 20% + 45% + 15% + 20% = 100%
Clerkships
Core Clerkships

• Family Medicine – 6 wks
• Internal Medicine – 8 wks
• Obstetrics/Gynecology – 6 wks
• Pediatrics – 6 wks
• Psychiatry – 6 wks
• Surgery – 8 wks
• Community Medicine
New Clerkship

- Community Medicine
- Underserved Medicine
- 4 week rotation
- Focus on underserved patients in several community locations using a Social Determinants and Health Equity framework
Underserved Medicine Mission

For the medical student to develop a foundational understanding of the Social Determinants of Health and healthcare disparities that exist in underserved populations and how healthcare and other service systems can either mitigate or exacerbate disadvantage.
Learning Communities
What are learning communities?

**Longitudinal groups of faculty and students**

**Goals**
- Enhance medical school experience
- Improve student well-being
- Maximize academic support
- Improve mentorship

**TRAILS Learning Communities**
- Cloudland
- Hartsell Hollow
- Iron Mountain
- Laurel Falls
Learning Communities: When?

- Development of Wellness Focused Communities: 2021-2022
- Add Faculty Leadership to expand focus to mentorship and advising: 2022-2023
- Annual assessment of Communities for adaptation and change: 2023-
Implementation

• AY 21-22: Wellness focused communities
  • Pinning at White Coat
  • Meet and greet week of July 20- goals and planning for year
  • Hike their trail in early August
  • Develop mission and planned service learning project for each community
  • Design badge for community and t-shirts
  • “Friendly” competitions (ping pong, basketball, etc)
Planned Expansion of Focus

- Career development
- Mentoring and advising
- More wellness
  - Financial planning
  - Social health
What’s next?
Next Steps

• Recommendations for Clerkships

• Planning Accelerated Track
  • Henson, Fox, Pierce, Stoltz
July-Nov 2021
- Plan pre-clerkship courses
- Learning Communities
- Information for applicants

March 2022
- M1 Fall semester details ready

July 2022
- Launch Year 1 of new curriculum

March 2023
- M2 details ready

July 2023
- Launch Year 2
- Launch Accel Track

December 2021
- Submit major curricular change to LCME

April 2022
- Submit Accelerated Track to LCME

October 2022
- M1 Spring semester details ready

May 2023
- Clerkship transition year
Quillen TRAILS Curriculum

Where will the TRAIL lead you?
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
• Ms. Sarah Allen Ray (MS4)