TRAILS Town Hall

March 28, 2022

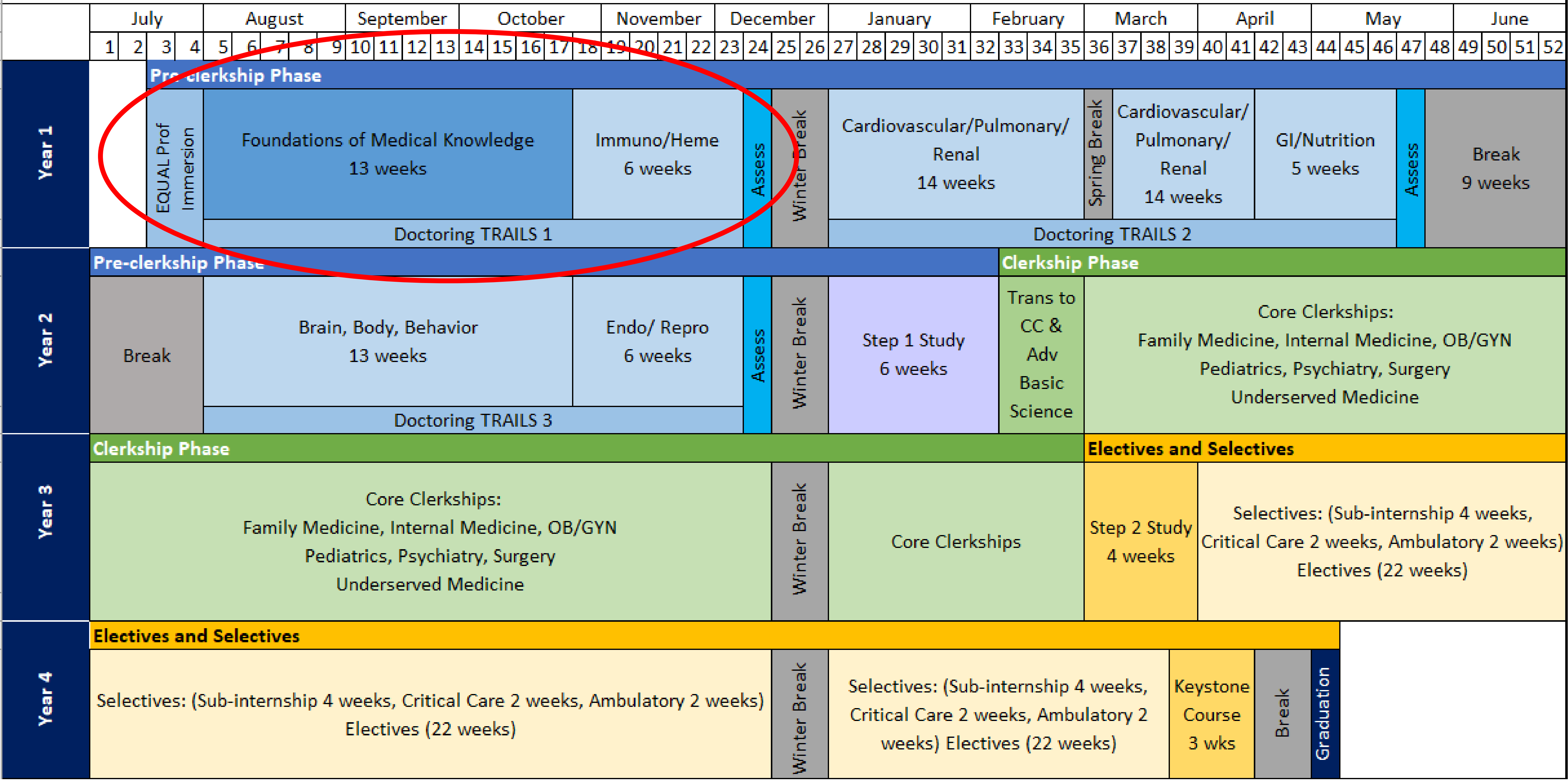
EAST TENNESSEE STATE UNIVERSITY

New Quillen Curriculum

TRAILS

Team-based **R**ural **A**pplied **I**ntegrated **L**earning **S**ystem

ETSU Quillen COM TRAILS Curriculum Schematic



TRAILS Course Directors and Co-Directors

Course Name	Director	Co-Director
EQUAL Professional Immersion	Caroline Abercrombie, MD	Deidre Pierce, MD
Foundations of Medical Knowledge	Antonio Rusinol, PhD	Michelle Chandley, PhD
Immunology & Hematology	Russ Hayman, PhD	Bob Means, MD
Cardiovascular, Pulmonary, & Renal	Jerry Mullersman, MD	Doug Thewke, PhD
Gastrointestinal Systems & Nutrition	Bob Acuff, PhD	Russ Hayman, PhD
Endocrinology & Reproduction	Tom Ecay, PhD	TBD
Brain, Body, & Behavior	Diego Rodriguez-Gil, PhD	Regenia Campbell, PhD
Doctoring TRAILS: Walk One	Jerry Mullersman, MD	N/A
Doctoring TRAILS: Tour Two	Patti Amadio, MD	N/A
Doctoring TRAILS: Trek Three	Patti Amadio, MD	N/A
BRIDGE to Clinical Clerkship	Caroline Abercrombie, MD	Rob Schoborg, PhD

Instruction: Active Learning

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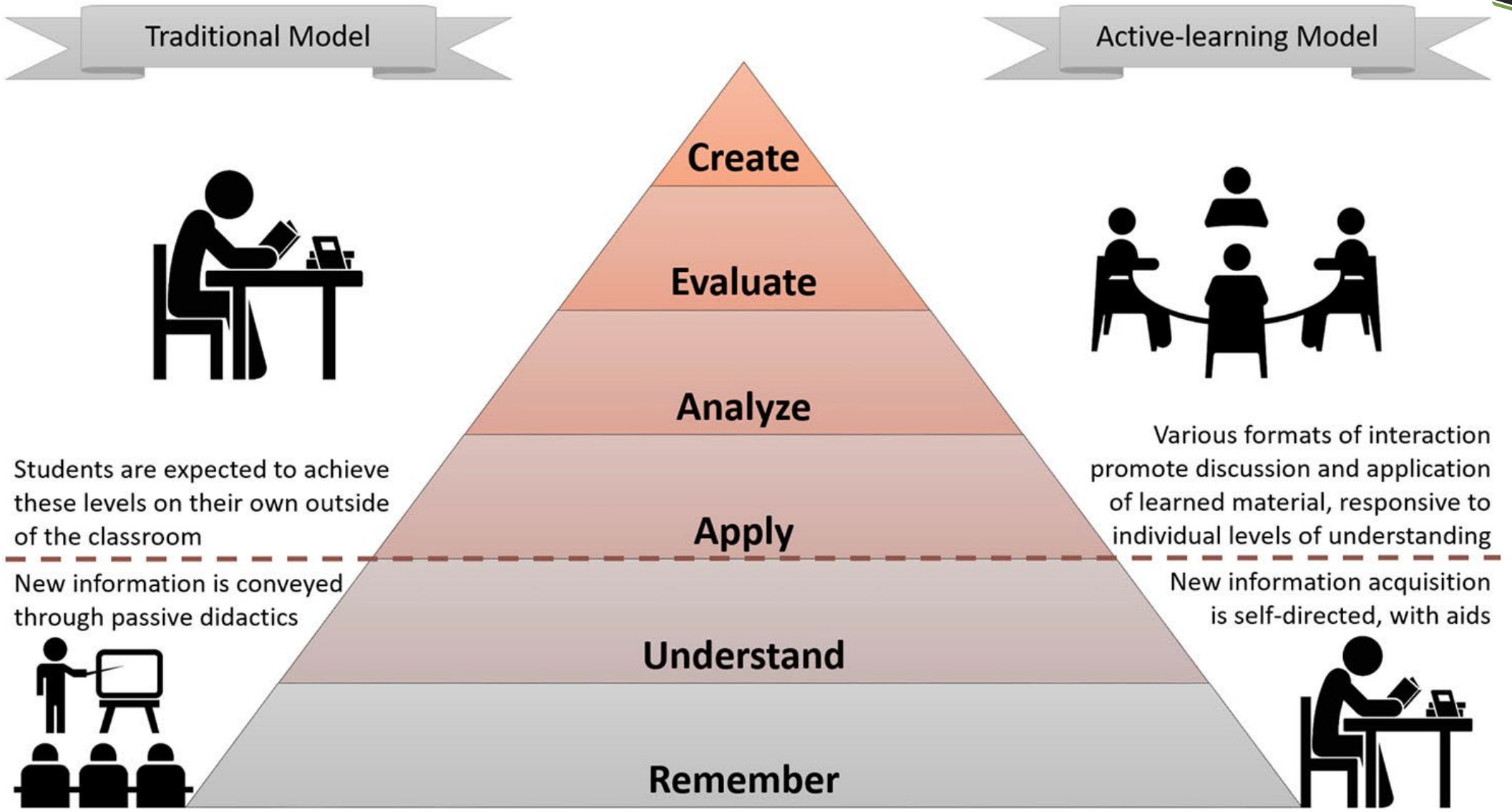

Example Schedule

<table>
<tr><th>Time</th><th>Monday</th><th>Tuesday</th><th>Wednesday</th><th>Thursday</th><th>Friday</th></tr>
<tr><td>8:00-8:50</td><td rowspan="2">TBL</td><td rowspan="4">SDST</td><td rowspan="2">TBL</td><td rowspan="4">Human Structure: (Anatomy, Embryology, Histology)[1]

or

Simulation or other course sessions</td><td rowspan="2">IQ Case
or
Doctoring: SPECTRM[2]</td></tr>
<tr><td>9:00-9:50</td></tr>
<tr><td>10:00-10:50</td><td>Interactive Large Group</td><td>Interactive Large Group</td><td rowspan="2">TBL</td></tr>
<tr><td>11:00-11:50</td><td>Interactive Large Group</td><td>Interactive Large Group</td></tr>
<tr><td>12:00-12:50</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>1:00-1:50</td><td rowspan="4">SDST</td><td rowspan="4">Doctoring:
Clinical Preceptor

Every few weeks

Day of week varies among students</td><td rowspan="4">Learning Community Activity (~every 4-6 weeks)
or
SDST</td><td rowspan="4">Doctoring:
Clinical Skills</td><td rowspan="4">SDST</td></tr>
<tr><td>2:00-2:50</td></tr>
<tr><td>3:00-3:50</td></tr>
<tr><td>4:00-4:50</td></tr>
</table>

[1] Human Structure every week during Foundations; every 2-3 weeks during systems courses

[2] SPECTRM: System, Professional, Ethical, and Community Topics Relevant to Medicine

Assessment

- Assessment *for* learning
- Continuous, progressive, cumulative
- Small stakes leading to larger stakes

    - Daily Activities
        - [TBL grade (Quizzes, Application etc.), JiTT Clicker responses, etc.]
    - Weekly Assessments
    - Mid-Term (for longer courses)
    - Final Exam

Remediation

- M1: Remediate during the summer break
- M2: Remediate prior to beginning clerkships

Possible Approaches:

- Course director submits plan to Student Promotions Committee
  - Tailored to student based on performance
- **Reviewing current policy around failure, remediation, and re-takes**
  - More info coming soon!

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Fall Semester Courses

EQUAL Professional Immersion

- **E**xperiencing
- **Q**uillen,
- **U**nderserved
- **A**ppalachia, &
- **L**earning Communities

GOALS

- Introduce **people and resources** available at Quillen and in the community.
- Engage with student's **Learning Community**.
- Introduce course themes as **lenses for perspective**.
- Model the **schedule and learning environments** for a typical week.
- Provide opportunity to reflect on the **identity and expectations** of a professional.
- Introduce what it means to be a **patient in Appalachia**.
- Introduce **"doctoring" skills** and the simulation learning environment.

EQUAL Professional Immersion "Lenses"

Course Themes	Example Sessions
Community Health	TN Vital Signs & SDoH through the Lens of Appalachia
Patient Inclusivity	Introduction to Intersectionality
Patient Advocacy	EQUAL Patient Centered Care
Patient Safety	Naloxone Certification Training
Experiential / Active Learning Environment	BLS Training; Passport to Learning: TBL
Learning Community Identity	Meet your Trail

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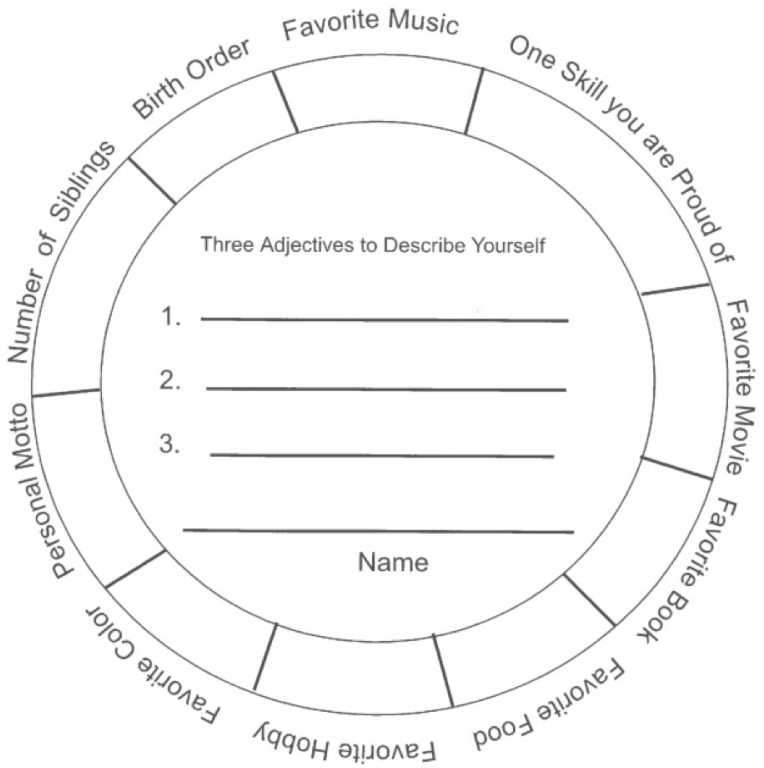
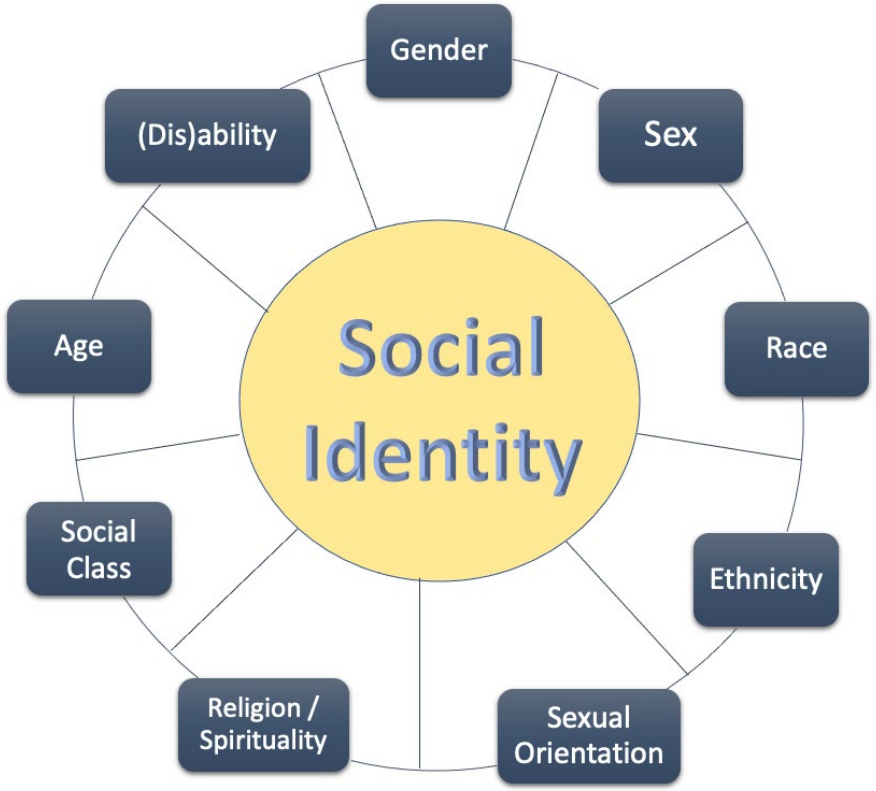
Growth & Professional Development:
Personal, Social, & Professional Identities





Foundations of Medical Knowledge (FMK)

- 13 Weeks
- Incorporates fundamental aspects of all basic science disciplines
- Active Learning Sessions
  - Team Based Learning: ~50%
  - Problem Based Learning: ~10%
  - Just in TimeTeaching(JiTT): ~30%
- Traditional Lectures: <10%

Small group

Large group

Weekly Themes in FMK

1. Human Development
2. Building Blocks of Life
3. Genetics, Cell Division and Signaling
4. Physiological Functions
5. Foundations of Human Metabolism + Mid Term
6. Fall Break
7. Energy Production and Utilization
8. Cause, Origin, and Nature of Disease
9. Control of Bodily Functions
10. Foundations of Microbiology/Antimicrobials
11. Foundations of Immunity
12. Microbial Pathogenesis and Treatment
13. Final Exam Week

Content Summary

Fundamentals	Nucleic Acids→Proteins→ Function	Signal Transduction	Energy production and utilization	Intermediary Metabolism
Cell Physiology	Genetics	Cell & Tissue Biology	Basic Microbiology	Introductory Pathology, and Pharmacology
Basic Anatomy & Embryology	Infection & Antimicrobials	Immune Response	Inflammation	Biostatistics and Epidemiology

Teaching Faculty

Course Director: Antonio Rusiñol

- Douglas Thewke
- David Johnson
- Paul Monaco
- Thomas Ecay
- Earl Brown
- Diego Rodriguez-Gil
- Robert Schoborg
- Jennifer Hall
- Michael Kruppa

Co-Director: Michelle Chandley

- Kelly Karpa
- Jerald Mullersman

<u>Anatomy & Embryology</u>

- Thomas Kwasigroch
- Caroline Abercrombie
- James Denham
- James Sheffey
- Tyrone Genade
- Thomas Saddler

Immunology and Hematology

- This course will focus on the **immunologic and hematologic processes** to build a comprehensive understanding of the responses and interventions necessary **to combat infectious diseases and blood-born disorders and malignancies**.
- The course will compare normal structure and function with dysfunction and disease.
- Students will develop the necessary skills to **critically evaluate laboratory data and patient history** to develop an **effective differential helpful in the performance of clinical course work** when immunology and hematology are relevant.

Weekly Themes in Immuno/Heme

- Week 1: Adaptive Immunity
- Week 2: Clinical Immunology and Blood Cancers
- Week 3: Red Blood Cells
- Week 4: Anemias
- Week 5: Clotting and Bleeding
- Week 6: Other Heme Disorders/Infectious Diseases
- Week 7: Assessment Week

Teaching Faculty

- J. Russell Hayman, PhD – Course Director, Microbiology, Immunology
- Robert T. Means, Jr., MD, MACP – Course Co-Director, Hematology
- Robert Schoborg, PhD – Immunology, Microbiology
- Earl Brown, MD – Pathology, Immunology, Hematology
- Paul Monaco, PhD – Histology, Immunology, Hematology
- Kelly Karpa, PhD - Pharmacology

Doctoring TRAILS: Walk One

Course Director: Jerald Mullersman, MD, PhD

- 19 weeks (Fall Semester)
- Incorporates Five Main Components:
  - Communication Skills for Health Professionals
  - Physical Exam Skills
  - Integrated Grand Rounds
  - IPE
  - SPECTRM: System, Professional, Ethical, and Community Topics Relevant to Medicine
- Intro to Clinical Preceptorship

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Things to Know

Three-Year Track (Accelerated Progress to Practice Pathway)

- Submitted to LCME
  - Review in June
- Targeted to begin 2023
- Family Medicine (3x2), Internal Medicine (2), Pediatrics (1)

Most Important Things for Students to Know

Carefully planned curriculum – not experimental

Designed based on student and faculty feedback

We want students engaged!

Active participation in class

Working with faculty to continue to improve the curriculum.

Most Important Things for Students to Know

Not Changing

- Dedicated faculty
- #QuillenFamily
- Collaborative environment
- Focus on communication
- Emphasis on primary care and rural medicine
- The mountains!

Changing

- Integrated, organ-system based courses
- Learning Communities
- More active learning
- Consistent, predictable weekly schedules
- Clerkships begin sooner!