

**Immersion Phase
Class of 2021
Careers in Medicine Fair**



"By failing to prepare, you
are preparing to fail."

-Benjamin Franklin

"Poor planning on your
part does not necessitate
an emergency on mine."

- Bob Carter



What we'll cover tonight:

- Immersion Phase requirement reminders
- Student representative tips on Immersion Phase planning
- Integrated Science Course (ISC) introductions
- Meeting with College Mentors (15 min: 2nd floor)
 - MSTP Students will meet with Dean Fleming
- Meeting meet with subspecialty advisors (30 min: 2nd floor)



Curriculum 2.0: Immersion Phase

A highly individualized post-clerkship phase that uses clinical context to build upon prior learning

Advanced Clinical Experiences ●
rigorous clinical rotations

Integrated Science Courses ●
mixed didactic and clinical experiences

Acting Internships ●
supervised intern-level responsibilities

Research ●
mentored research project



IMMERSION PHASE GOALS

- Deepen **FOUNDATIONAL SCIENCE KNOWLEDGE** during meaningful clinical engagement
- Solidify **CLINICAL SKILLS**
- Enhance **PRACTICE-BASED LEARNING SKILLS**
- Ensure readiness for **INTERN ROLE/RESIDENCY**
- Expand knowledge and skills regarding **SCHOLARSHIP**
- Further grow knowledge and skills regarding **LEADERSHIP**
- Encourage **PROFESSIONAL DEVELOPMENT**

C 2.0 Immersion Phase (IP) Requirements

| Minimum C2.0 Requirements (in Months) | | |
|--|---|--|
| On-Campus | 4 | Integrated Science Courses (ISCs) |
| | 1 | Acting Internship (AI) |
| | 4 | Advanced Clinical Electives (ACEs) |
| On-Campus or Away (away with approval) | 3 | Research Immersion |
| | 3 | Competency and Interest-Driven Rotations* (can be ISCs, ACEs, AIs or Electives) |
| 15 required months | | Must include: 1 Primary Care course (either ACE or ISC) 1 Acute Care course (EM or ICU-based course) |
| 4+2+1 (7 total) | | <i>Flex months (4 + 2 month for Step 1 + 1 month for interviews)</i> |

Students can register for up to 19 months

**At least one must be clinical rotation.*

Approach to IP Planning

- Ideally, plan for 3 ISCs in Year 3 with a minimum of 2
- Acting Internships (AI) will be taken between March of Y3 and September of Y4 by most students
 - Students will work with IP team to register
- QI must be completed by November of Year 4



Approach to IP Planning

- Have several schedules planned and recognize that you will make many changes to your schedule
- Be mindful of your peers as you plan
- Discuss your IP Plan with your advisors, mentors, coach:
 - Year 3 should be approached as exploratory and to attain required competencies
 - Balance general medical education vs specialization





Learning Communities

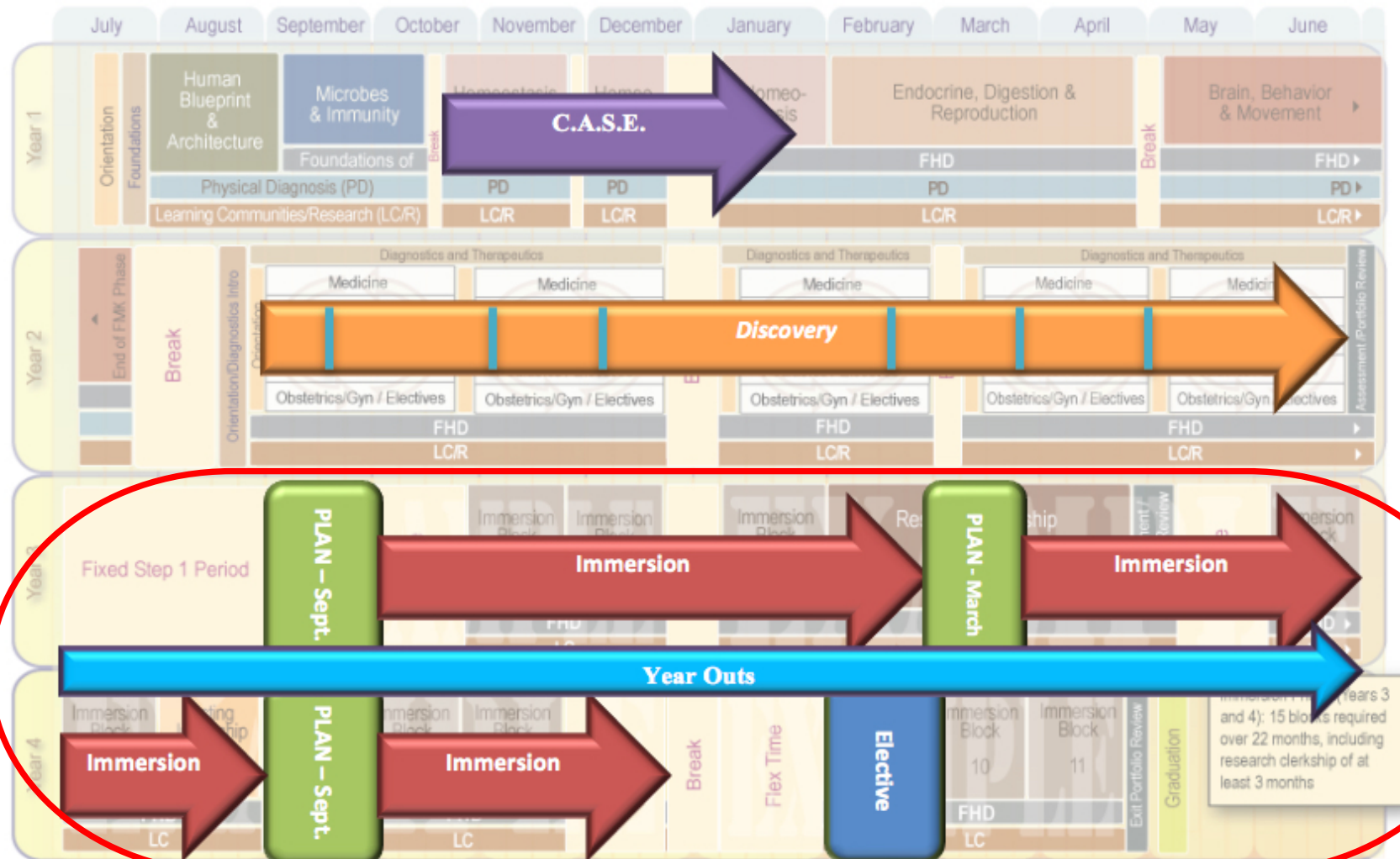
Registration needed in YES for all 8 LC units

- 8 units
 - Mondays from 1-3 (odd units) and 3-5 pm (even units)
 - **Face-to-face meeting: 3rd Monday**
- Months offered:
 - Sept & Jan: Units 1 & 2
 - Oct & Feb: Units 3 & 4
 - Nov & March: Units 5 & 6
 - Dec & April: Units 7 & 8
- Pass/fail



Inquiry Program in the IP

Inquiry Program Overview



FHD Immersion Course Information

- 5 units taken during Immersion Weeks
 - You don't register for these
 - **Attendance is mandatory**
- 5 units longitudinally, mostly during 3rd year
 - Paired with a primary rotation
 - Cannot take FHD when you take PLAN
 - Tuesdays from 1-5 pm
 - **One or two face-to-face meetings (varies by course)**

<https://medschool.vanderbilt.edu/fhd/foundations-of-health-care-delivery-immersion-phase/>



1

Advanced Communications 1 and Public Health and Prevention
(Intro to Immersion Phase week)

2

Advanced Communications 2 and Interprofessional Education 1
(3rd year spring FHD Immersion)



4

QI 1-3/PS longitudinally during 3rd year
IPE2 fulfilled either via one month longitudinal or other approved experience*

3

Healthcare Economics and Policy
(4th year winter FHD Immersion)

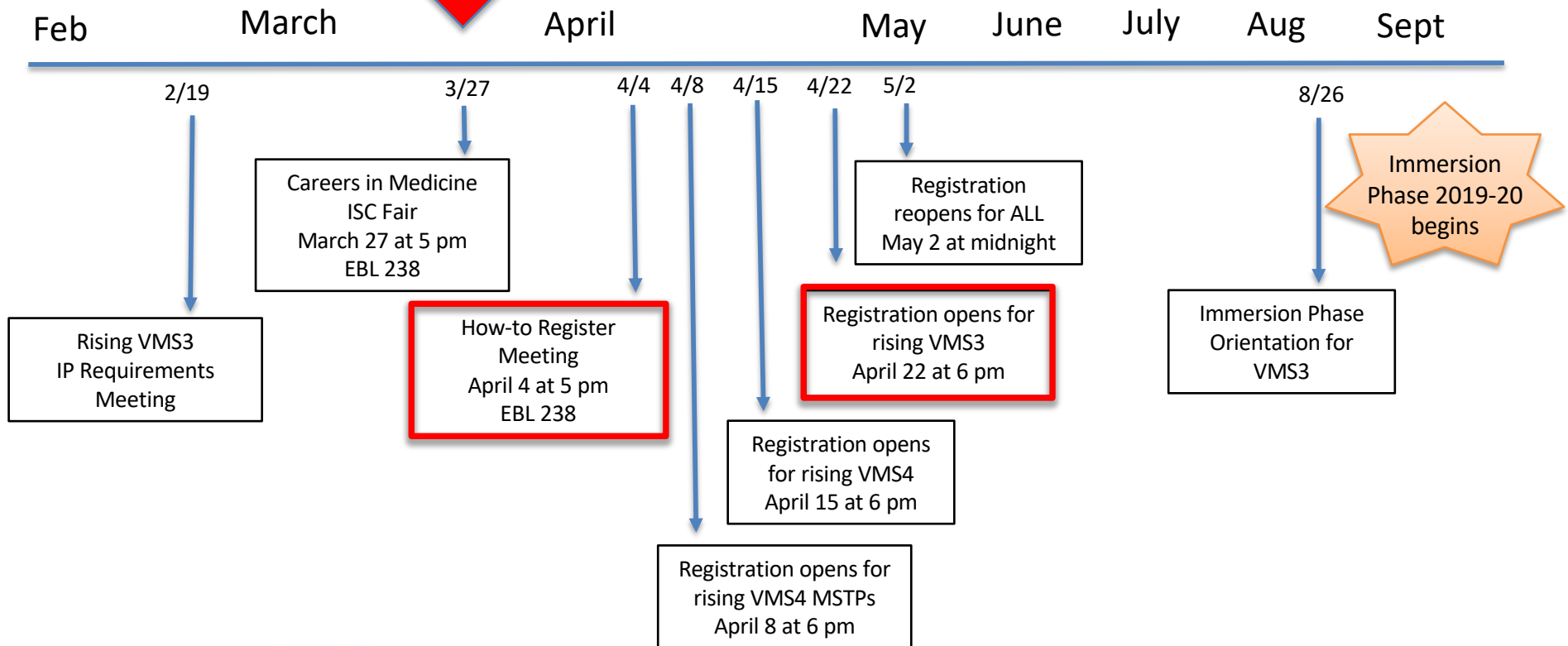


*Such as Nicaragua, Shade Tree, VPIL, or other approved interprofessional experience



VMS2 Registration Timeline

You are here



Resources

- Class of 2021
 - <https://medschool.vanderbilt.edu/ume/class-of-2021-requirements/>
- MD PhD Pre-C2.0
 - <https://medschool.vanderbilt.edu/ume/md-phd-requirements-pre-c-2-0/>
- Make sure to pick up the appropriate printed packet at the back of the room



Certificate Programs

The School of Medicine offers graduate certificate programs to its students who wish to gain focused expertise in a specific area.

- Each program has its own admission and completion requirements.
- Students **must submit an “Intent to Enroll” form** to document their intention to pursue a certificate, as well as other documentation as needed.
- Permission of the degree program director and the certificate program director are required to pursue a certificate.



Certificate Programs

- Biomedical Ethics
- Global Health
- Lesbian, Gay, Bisexual, and Transgender (LGBT) Health
- Neurodevelopmental Disabilities



Careers in Medicine

<https://medschool.vanderbilt.edu/cim/pathway-to-match/>

*Your guide to succeeding in the residency
application process with info such as*

Cost of Applying

Fourth-Year Scheduling

Away Rotations

Calendar to Match

Faculty Advisor Lists

Checklist for Match

Workshops

Application Process

Letters of Recommendation



Integrated Science Course Presentations

(please hold all questions until the end)



Cardiovascular Disease

David Meoli, MD, Steven Eskind, MD, Lisa Mendes, MD, Julie Damp, MD, Ash Shah, MD, Robert Deegan, MD

Science: Lecture, Anatomy Lab, CELA (code and echo simulators), ECG workshops, CBL

- CV gross anatomy and imaging
- Pathophysiology of atherosclerosis
- CV hemodynamics (normal, HF)
- Acute and chronic CHF treatment
- Vascular emergencies
- Pharmacology (anti-thrombotic, HF, anesthetic)
- Echo: US physics, fluid dynamics
- Vascular biology of stress testing
- ECG interpretation
- Pulmonary vascular disease
- Coronary/valvular surgery

Clinical Settings: Four one week experiences

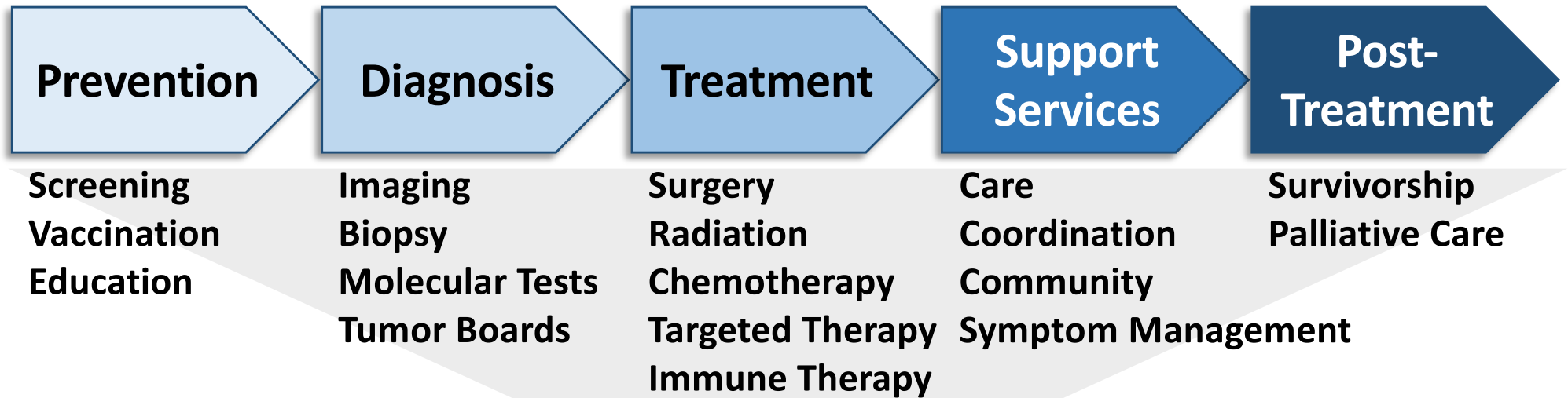
- CT Surgery
- Vascular Surgery
- CT Anesthesia
- CHF/transplant
- General Cardiology/Imaging
- Interventional Cardiology
- Electrophysiology

Specialty Interests: All are welcomed!

Internal Medicine, Cardiology, Critical Care, Surgery (CT, Vascular)
Anesthesiology, Emergency Medicine

Clinical Cancer Medicine

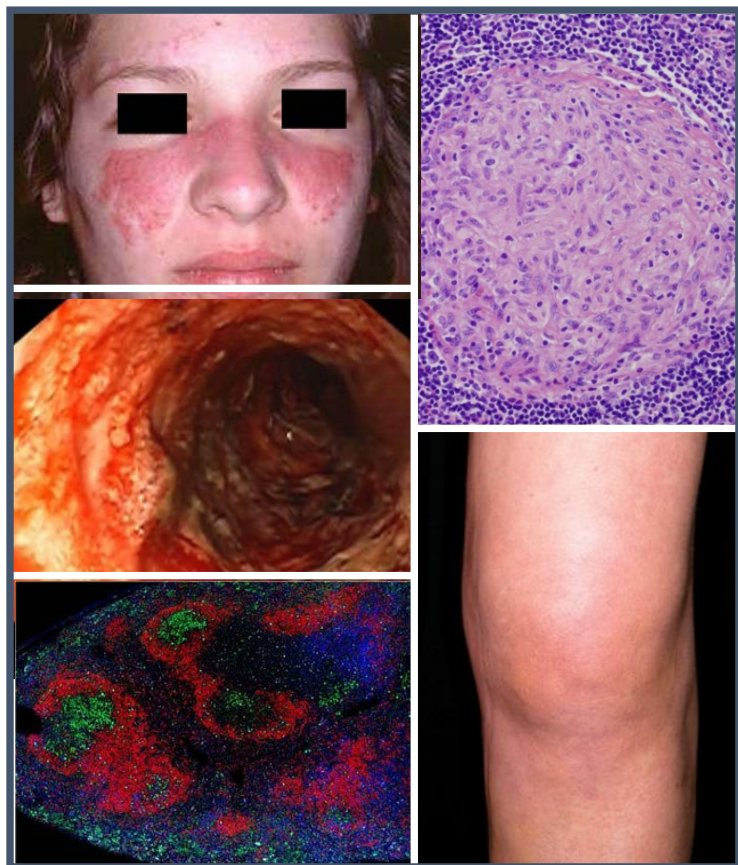
Kim Dahlman, PhD and Vicki Keedy, MD, MSCI



Clinically Applied Immunology

Daniel Dulek, MD

Course Goal: To reinforce and extend students' ability to apply immunologic concepts in a clinically-relevant manner using a range of medical subspecialties



Clinical Settings

*Inpatient and outpatient

*Clinical settings tailored to your interest

Rheumatology; GI/Inflammatory Bowel Disease; Allergy/Immunology; Infectious Diseases; Solid Organ Transplantation; Hematopoietic Cell Transplantation

Clinical Science

Clinical Problem Solving, Immunology, Clinical Flow Cytometry and Immunologic Diagnosis, Pathologic Inflammation, Microbiology, Sepsis, Opportunistic Infections, Monoclonal Antibody Therapy, CAR T cells; Cancer Immunotherapy; Immunosuppressive Medications

Community Healthcare

Jule West, MD and Tiffany Israel, MSSW

“This is an essential part of the curriculum.”



“Another lesson learned from this class is how physicians can advocate for patients at different levels.”



“I will always remind myself of this fact to be kind and non-judgmental when asking about [patient’s] stories.”

Critical Illness

Jennifer King, MD, Tracy McGrane, MD & Meredith Pugh, MD

Science

Physiology, pathophysiology, pharmacology, anatomy, microbiology, immunology, neuroscience, nutrition science, imaging, ethics and behavioral medicine

Clinical Settings

Critical Care Skills Week (CELA) – central lines, airway, chest tubes, resuscitation training

One week in an ICU (medical, surgical, burn, neurologic, cardiovascular, or pediatric)

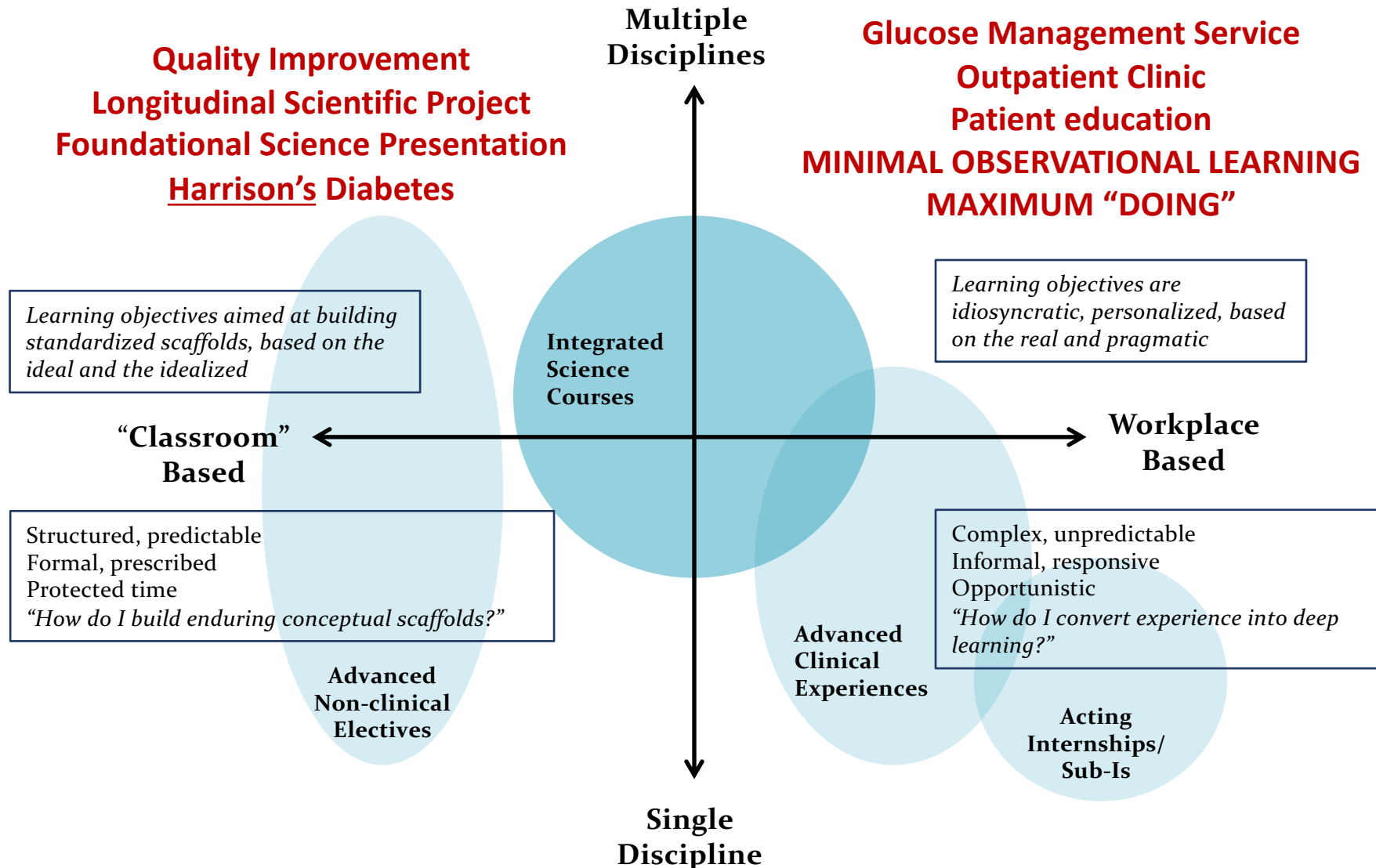
Specialty Interests

Anesthesiology, Critical Care Medicine, Internal Medicine and its Subspecialties, General Surgery and its Subspecialties, Emergency Medicine, Pediatrics

Diabetes

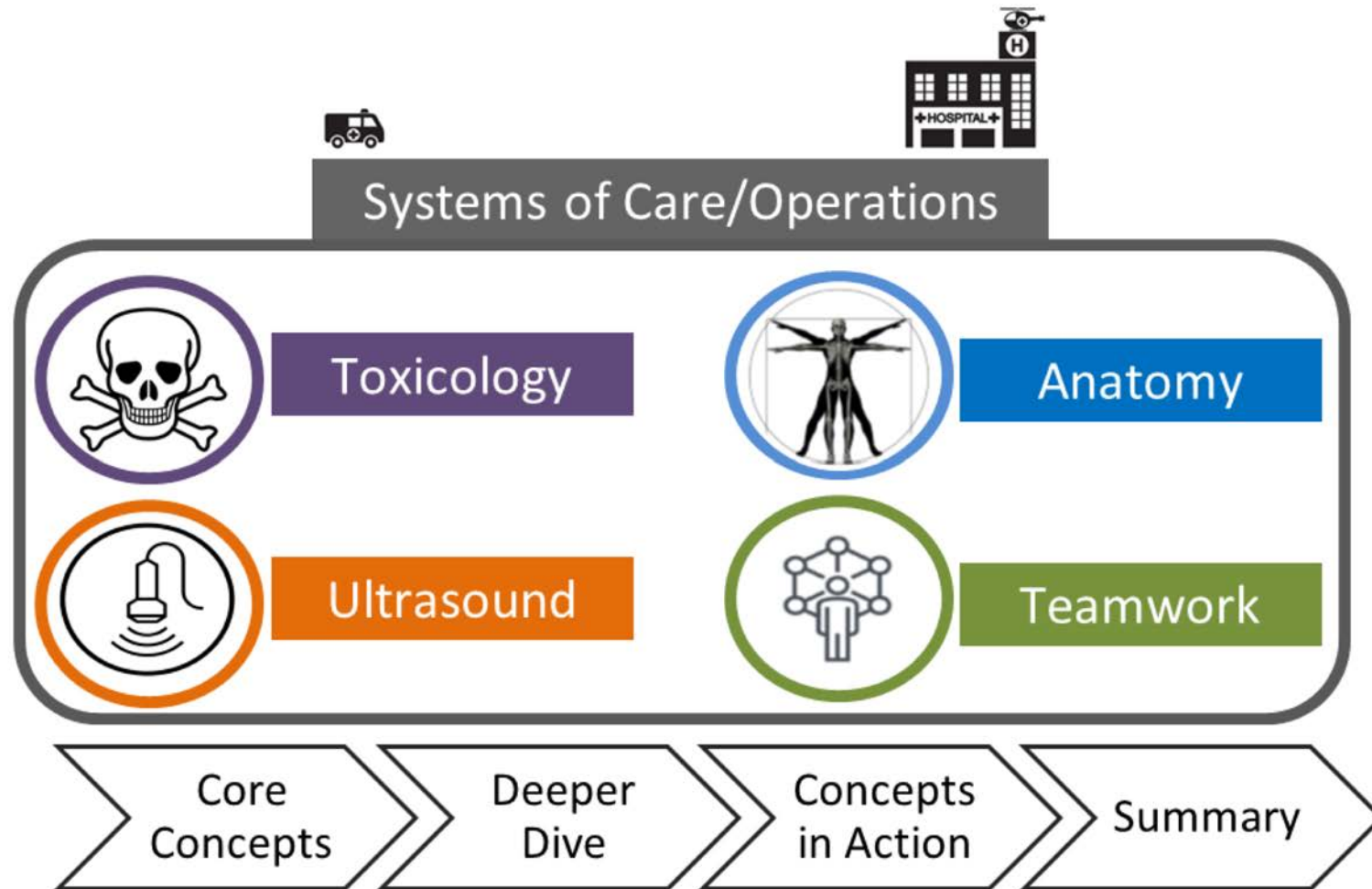
Michael Fowler, MD

Conceptual Framework



Emergency Care

Kendra Parekh, MD, and Saralyn Williams, MD



Designed for students with interests in: anesthesia, critical care, EM, family medicine, IM, neurology, orthopedics, pediatrics, psychiatry, radiology, surgery and surgical subspecialties

Global Health

Doug Heimburger, MD, MS

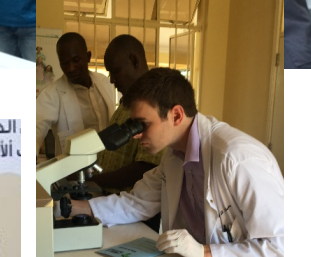
Marie Martin, PhD, MEd

Ed Trevathan, MD, MP



Sciences:

Health systems,
population health,
pathology and
pathophysiology
(IDs & NCDs),
epidemiology,
nutrition, public
health



Clinical settings:
Multiple
international sites in
low-resourced
settings, including
Jordan, Kenya, and
Latin America; *other
locations available
upon request*



Specialty interests:
Primary care, family
medicine, ICU, IDs,
internal medicine,
Ob/Gyn,
ophthalmology,
pediatrics,
psychiatry, surgery,
urology, *and others*



Healthy Aging & Quality Dying

Mariu Duggan, MD, MPH & Andy Wooldridge, MD



Science

Physiology, biochemistry, immunology, pharmacology, neuroscience, psychology, epidemiology, preventive health, public health, social sciences, philosophy, ethics, science of healthcare systems

Clinical Settings

Skills week

1 week inpatient (geriatrics wards/consults, geri-psych, nursing home)

1 week outpatient (primary care, specialty clinics)

Home, assisted living, nursing home, palliative care, hospice visits, V3

Specialty Interests

Internal Medicine and subspecialties,
Surgery, Family Medicine, Neurology,
Psychiatry, Emergency Medicine



Infectious Diseases

Holly Algood, PhD, Christina Fiske, MD MPH
Cody Chastain MD, Isaac Thomsen MD MPH



Science

Virology, microbiology, molecular biology, immunology, pathophysiology, pathology, antimicrobial stewardship, infection prevention

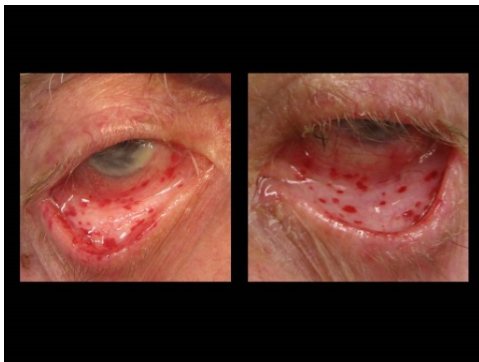
Clinical Settings

Inpatient consult service (Pediatric or Adult), outpatient clinics (Pediatric, General Adult, HIV), microbiology and virology lab



Specialty Interests

Internal Medicine and Pediatrics, (esp. Allergy/Immunology, Rheumatology, Hematology/Oncology, Infectious Diseases, and Transplant subspecialties), Dermatology, Pathology



Injury, Repair & Rehabilitation (IRR)

Shannon Eastham, MD

Science

Anatomy, Cell and Developmental Biology, Epidemiology, Ethics, Immunology, Implementation Science, Neuroscience, Nutrition sciences, Pathology, Pathophysiology, Pharmacology, Radiology, Social Sciences, Speech Sciences, and System Sciences

Clinical Settings

Trauma (ICU/Admits): 2 Nights and 2 Days

Wound Team: 0.5 Day

Medical Examiner's (Coroner's) Office: 2 Days

Stallworth Rehabilitation Hospital: 0.5 Day

Specialty Interests

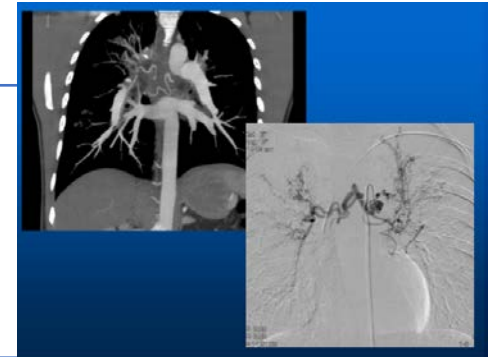
Surgery & Subspecialties, Emergency Medicine, Anesthesiology, and Aspiring MDs

Medical Imaging & Anatomy

Will Laxton, MD and Scott Pearson, MD

Science

Anatomy labs*, radiation basics, contrast use, appropriate ordering



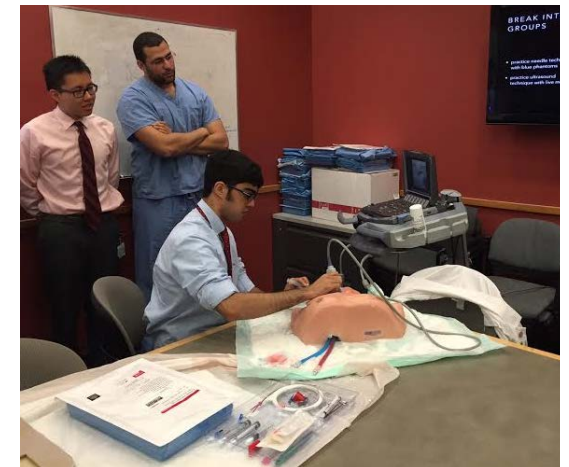
Clinical Settings

See MRI in action & procedures in fluoroscopy;
Hands-on Ultrasound in CELA: SP & image-guided CVC placement;
Practice being a Radiology resident; Radiology reading room experience*

Specialty Interests

*** Individualized based on your interest:**

Internal Medicine, General Surgery,
Emergency Medicine, Orthopedic
Surgery, Pediatrics, Neurology,
Neurosurgery, Ophthalmology,
Ob-Gyn, ENT, Radiology,
Radiation Oncology



Sexual Health and Medicine

Doug Milam, MD and Mary Romano, MD

Course Directors Could Not Attend

Science

Embryology and development, Anatomy, Neurophysiology, Sexual function and response, Sexual orientation, Intimacy and behavior, Treatment of sexual dysfunction, Sexually transmitted infections, Infertility

Special emphasis is placed on interviewing techniques and skills for both adolescents and adults with a simulated patient encounter at CELA at the conclusion of the course..

Clinical Settings

Students will have hands on experience in outpatient clinics including Adolescent medicine, Urologic surgery, Planned Parenthood, Comprehensive Care Clinic, Obstetrics/Gynecology

Specialty Interests

Adolescent Medicine, Family Medicine, Internal Medicine, Obstetrics/Gynecology, Pediatrics, Psychiatry, Urology

The Skinny on Obesity

Gisella Carranza Leon, MD and C. Robb Flynn, PhD

Highlights of the course

- Obesity boot camp
- Food analysis project
- Morning at the Dayani Center

Science:

- Adipose tissue physiology
- Gut regulation of metabolism
- Nutrition
- Pathophysiology, pharmacology, diagnosis and treatment of obesity and its complications.

Clinical Settings

- Medical Weight Loss Clinic
- Surgical Weight Loss
- Vanderbilt Lipid Clinic
- Diabetes Eskind Clinic
- Physicians
- Nurse practitioners
- Dietitians
- Exercise physiologists

Specialty Interests

All specialties must deal with patients with obesity, but critical for Internal Medicine and subspecialties, Pediatrics and subspecialties, Surgery (all types), Neurology, Ob/Gyn

Working-Learning Health System

Tyler Reimschisel, MD, MHPE & Interprofessional Clinical Faculty

Science

Health systems science, clinical & behavioral medicine, population & public health, health policy, socio-ecologic determinants of health, communication science, leadership & organizational management, implementation science

Clinical Settings

- Immersive experience in which interprofessional group of students and faculty provide ***comprehensive clinical care & care navigation*** to **panel of patients**
- Professions include Medicine, Nursing, Social Work, Pharmacy, Physician Assistant
- Can choose to do one-, two- or three-month experience:
 - Month 1: ISC in health systems science
 - Month 2: ACE in population health
 - Month 3: ACE in panel-based care
- Students who complete 3-month experience eligible for QI Advanced Track credit
- Meets primary care requirement

Specialty Interests

Primary Care, Internal Medicine, Family Medicine,
Population/Public Health Medicine

