

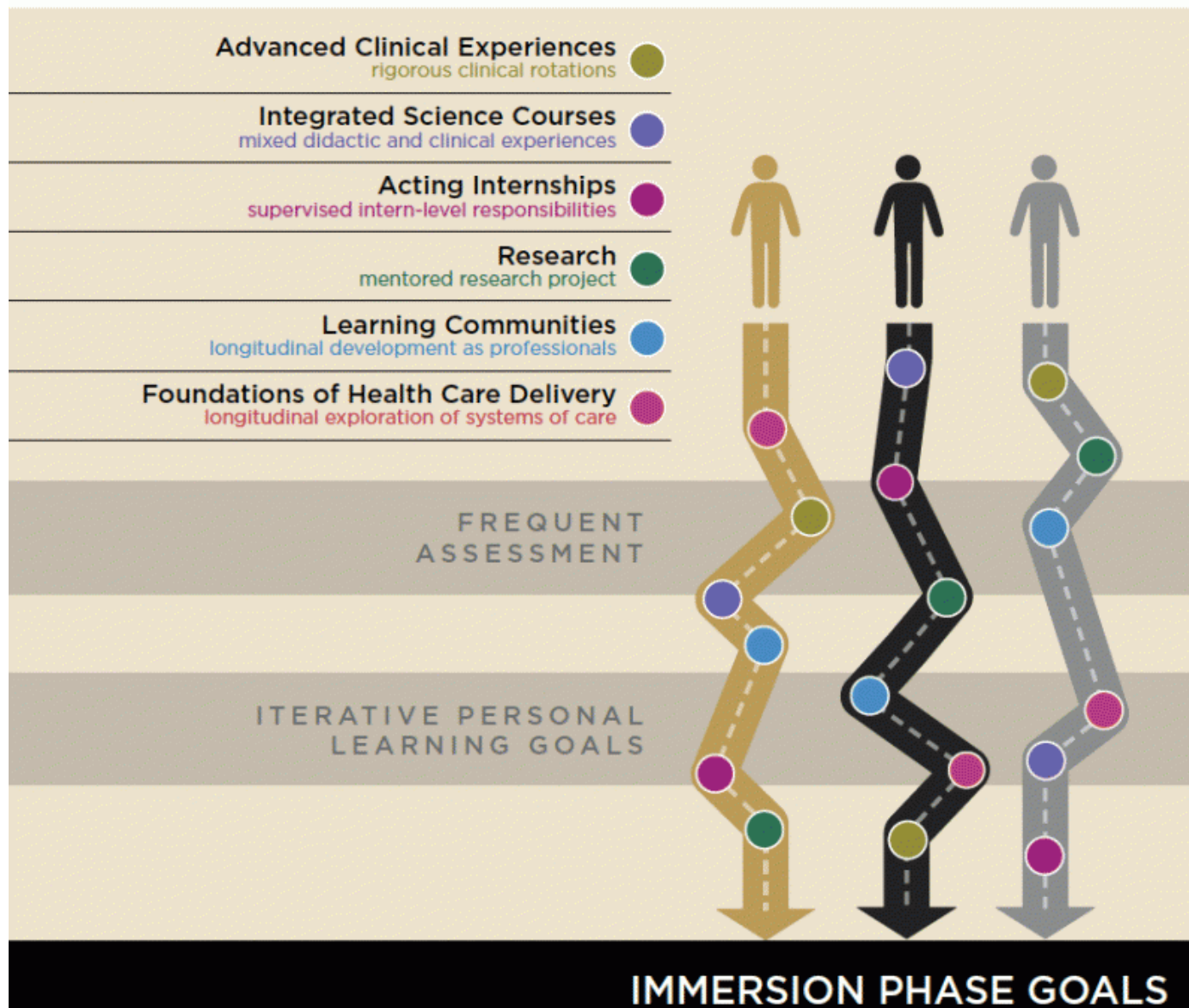
Immersion Phase
Class of 2019
Careers in Medicine Fair

What we'll cover tonight:

- Immersion Phase requirement reminders
- Student representative tips on Immersion Phase
- Integrated Science Course (ISC) introductions
- Students meet with College Mentors (20 min)
(4th floor rooms)
 - MSTP Students will meet with Dean Fleming
- Students meet with subspecialty advisors (20 min)
(4th floor rooms)

Curriculum 2.0: Immersion Phase

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



C 2.0 Immersion Phase 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)	Flex months (4 + 2 month for Step 1 + 1 month for interviews)	

ISC, ACE and AI grading = H/HP/P/F

Students can register for up to 19 months

[#]At least one must be clinical rotation.

Approach for your IP Planning

- Plan for a minimum of 2 (max of 3) ISCs in year 3
- 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
- Have several schedules planned and recognize that you will make many changes to your schedule
- Be mindful of your peers as you plan
- Discuss with your Mentors:
 - 3rd year should be approached as exploratory and to attain required competencies
 - Balance general medical education vs specialization

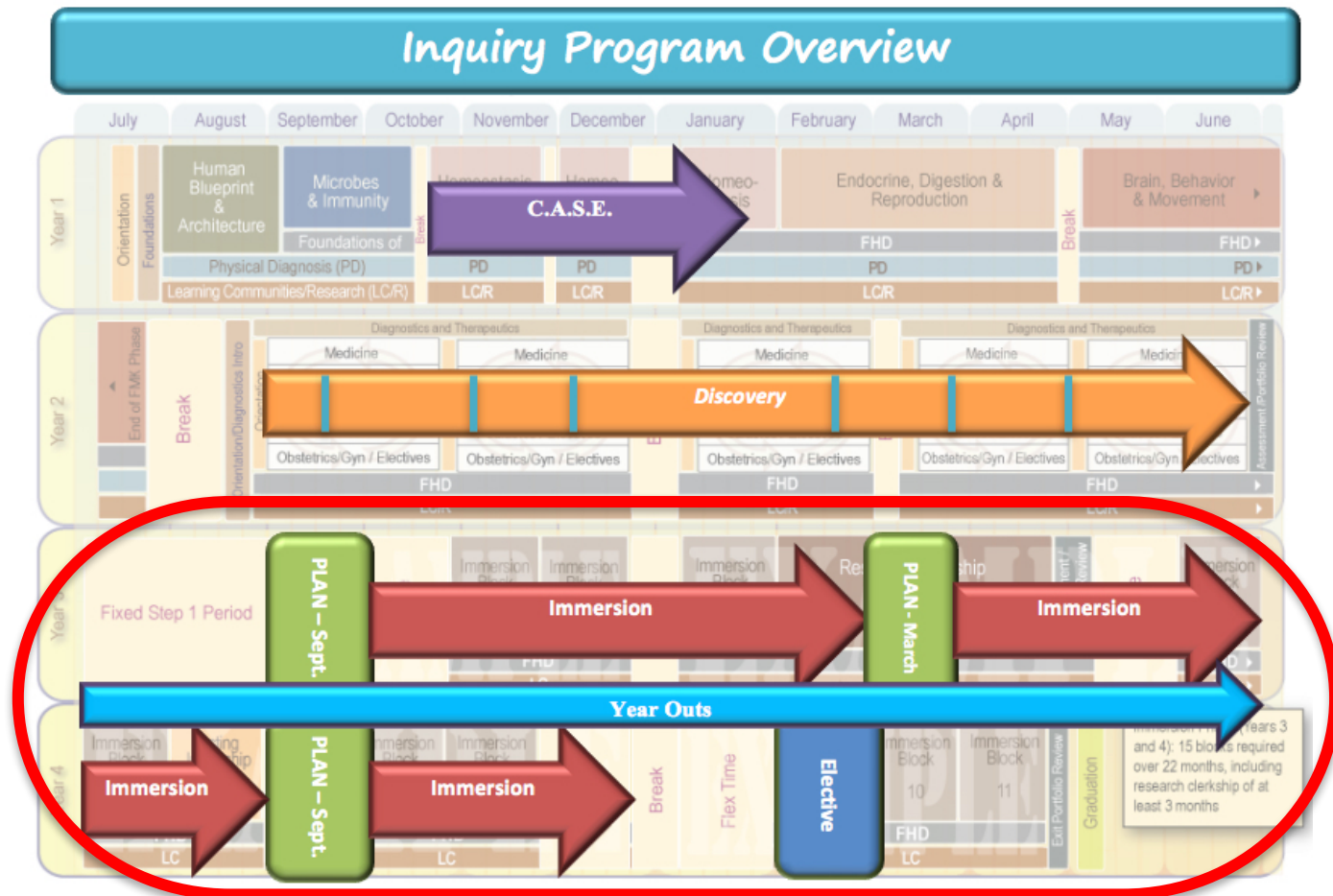


Learning Communities

- Registration needed in YES for all 8 LC units over your Immersion Phase
- 8 units
 - Mondays from 1-3 and 3-5 pm
 - 6 – 8 hours effort per unit
(2 of those hours in face to face session)
- Months offered:
 - Sept & Jan: Units 1 & 2
 - Oct & Feb: Units 3 & 4
 - Nov & March: Units 5 & 6
 - Dec & April: Units 7 & 8
- **Face-to-face meeting, typically on 3rd Monday of rotation**

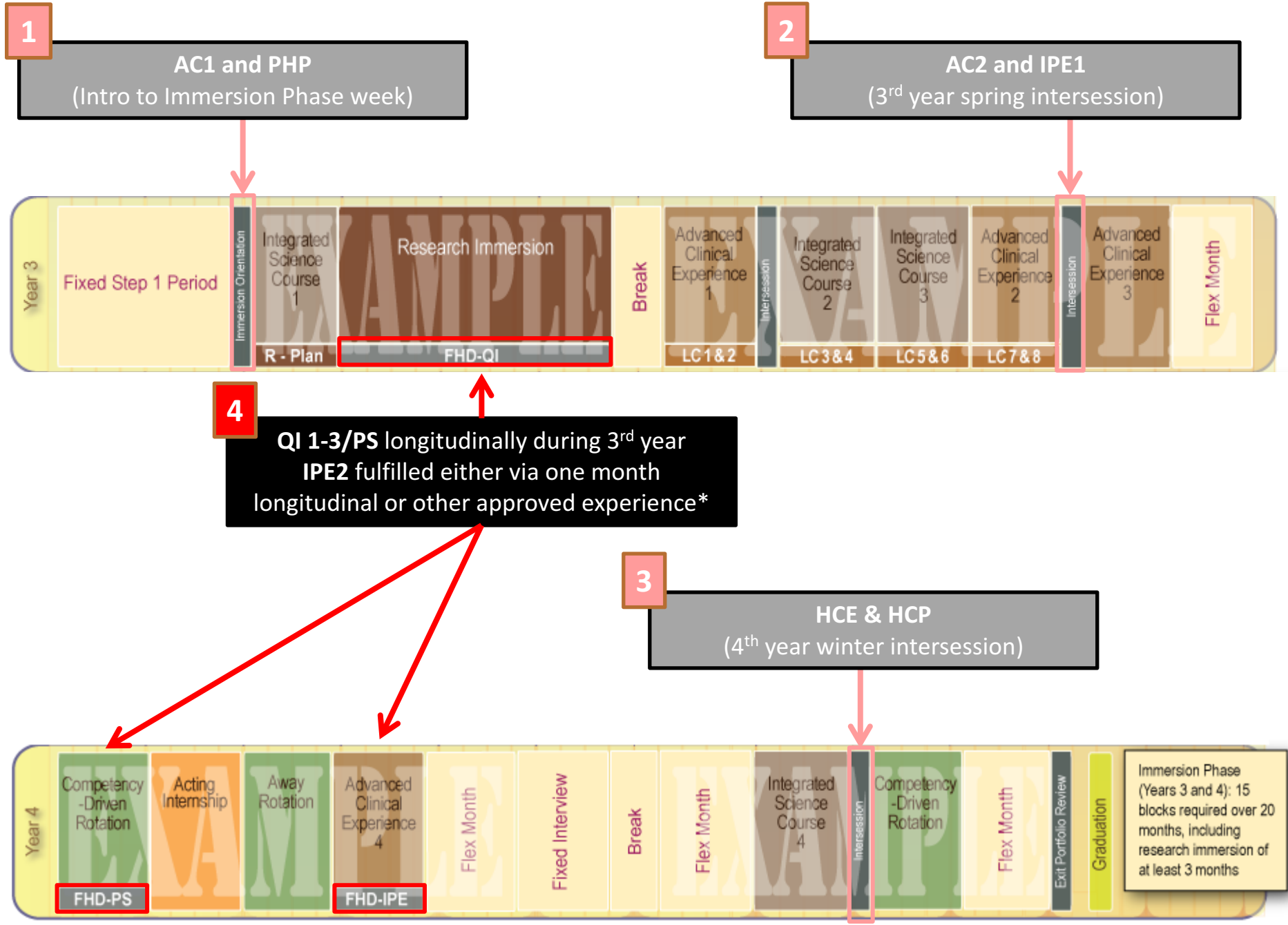
Inquiry Program: Courses During the Immersion Phase

- PLAN
- Research Immersion



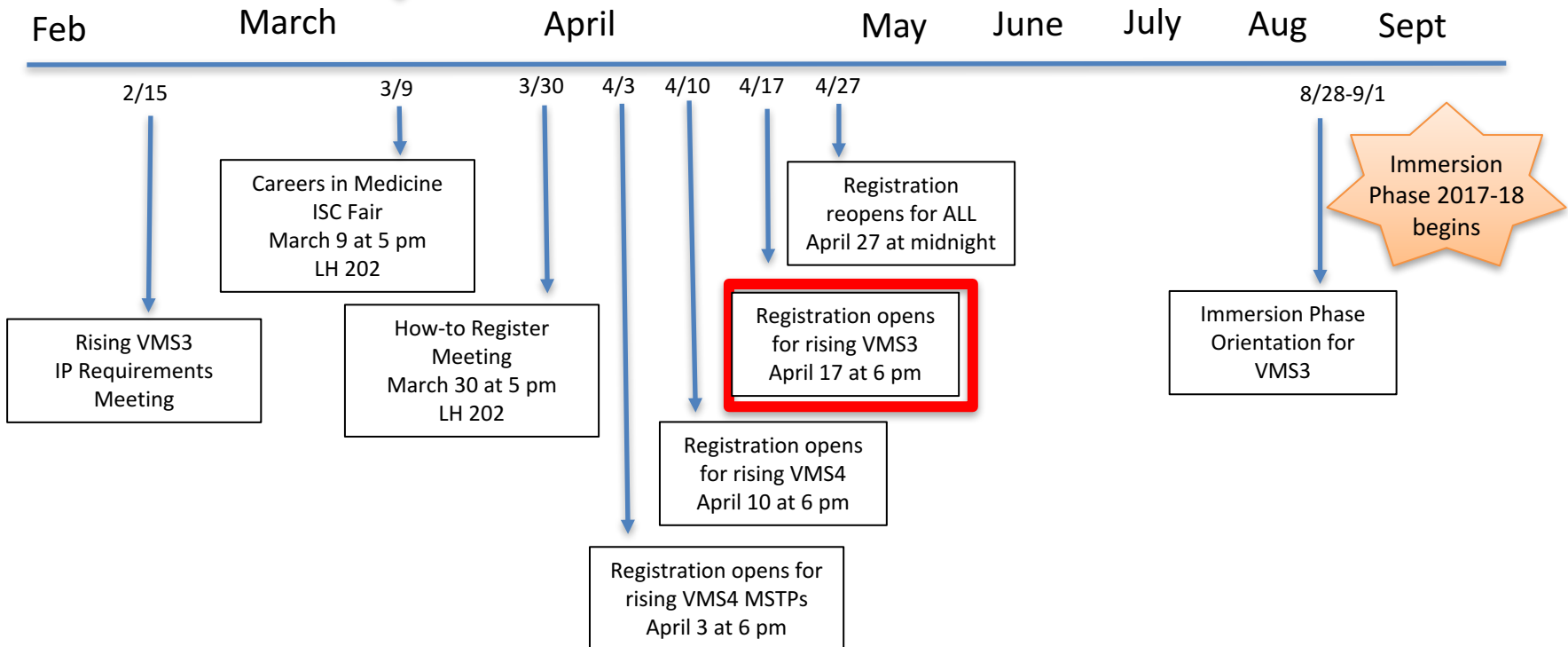
FHD Immersion Course Information

- 6 units as a class during three one-week intersessions
- 5 units longitudinally, mostly during 3rd year
 - Paired with a primary rotation
 - Tuesdays from 1-5 pm
 - **One or two face-to-face meetings (varies by course)**
 - 20 hours effort per unit
 - Primarily self-directed, asynchronous learning



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

VMS2 Registration Timeline



Resources

- Class of 2019
 - <https://medschool.vanderbilt.edu/ume/class-2019-requirements>
- MD PhD Class of 2018
 - <https://medschool.vanderbilt.edu/ume/md-phd-prec2o>
- Make sure to pick up the appropriate printed packet at the back of the room

Careers in Medicine

<https://medschool.vanderbilt.edu/cim/pathway-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

Lisa Mendes, MD, Julie Damp, MD, Steven Eskind, MD, Steven Ball, MD, Robert Deegan, MD

Science

Cardiovascular anatomy and physiology, Etiology and pathophysiology of atherosclerosis, Hemodynamics of cardiovascular system in health and disease, Pharmacology, Pathophysiology, diagnosis and treatment of acute coronary syndromes, acute myocardial infarction, congestive heart failure, aortic stenosis, atrial fibrillation and wide complex tachycardia, Pathophysiology, diagnosis and treatment of common forms of carotid and peripheral vascular disease, and aortic disease

Clinical Settings

Four, one week clinical experiences in the following areas: CT surgery, Vascular Surgery, CT Anesthesia, General Cardiology/Interventional, General Cardiology/Imaging, Electrophysiology, Heart Failure

Specialty Interests

Internal Medicine, Cardiology, Critical Care, Vascular Surgery, Cardiothoracic Surgery, Anesthesia, Emergency Medicine

Community Healthcare

Jule West, MD and Tiffany Israel, MSSW

Science

Population health, health policy, health determinants, community engagement, systems engineering, public health, organizational management, health ethics, resource utilization, implementation science, behavioral science, communication science, stress biology, vaccine immunology and policy implementation

Clinical Settings

Students participate in clinical care in a safety net primary care setting including the Neighborhood Health Clinics, Matthew Walker Comprehensive Health Center, Mercy Community Healthcare, or Siloam Family Health Center

Specialty Interests

Community and Population/Public Health Medicine, Combined Internal Medicine-Pediatrics, Emergency Medicine, Family Medicine, General Surgery, Internal Medicine and subspecialties, Neurology, Obstetrics & Gynecology, Orthopedic Surgery, Pediatrics, Plastic Surgery, Psychiatry

Critical Illness

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); one week 'on service' in either the medical, surgical, burn, neurologic, cardiovascular, or pediatric ICUs

Specialty Interests

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

Diabetes

Michael Fowler, MD

Science

lipid biology and pharmacology, cardiovascular physiology, molecular biology, genetic medicine, cell biology, and neuroendocrinology

Clinical Settings

Adult inpatient management service
and adult diabetes clinic

Specialty Interests

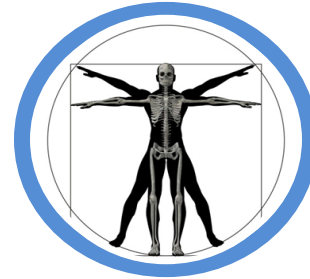
Internal Medicine and subspecialties, Family Medicine, Emergency Medicine, Surgical Subspecialties, Anesthesia, Radiology

Emergency Care: Cell to System Science

Kendra Parekh, MD & Saralyn Williams, MD



Toxicology



Anatomy



Ultrasound



Teamwork



Systems of Care/Operations

Core
Concepts

Deeper
Dive

Concepts
in Action

Summary

Getting Hooked: Immersion in Addiction

Meg Benningfield, MD and Christine Konradi, PhD

Science

Biological and clinical principles of brain function and behavior: What determines who gets hooked?
How do drugs affect the brain?
How can physicians help patients to quit?

Clinical Settings

Pain clinic, partial hospital program,
inpatient addiction treatment

Specialty Interests

Primary Care * Surgery * Pain Management
Adolescent Medicine * Psychiatry * Neurology

Global Health

Doug Heimburger, MD, MS

Info Session

Mar 15th 5pm

LH 407

Science

Population health science, Public health, Pathology and Pathophysiology (for both infectious diseases and non-communicable diseases), Nutrition science, Epidemiology, Social sciences, Behavioral sciences, Health systems sciences, and Microbiology

Clinical Settings & Specialty Interests



Central America

Community Health,
EM, GI, ID, IM,
Ob/Gyn, Oncology,
NCDs, Nutrition,
Pathology,
Pediatrics, Primary
Care

Teaching Hospital,
District Hospital,
Rural Clinic

Jordan

Genetic Diseases,
NCDs, Oncology,
Pathology,
Pediatrics, Quality
Improvement

Teaching Hospital,
Government
Hospital, Refugee
Camp, Cancer
Center

Kenya

Community Health,
ID, HIV/AIDS,
Ob/Gyn, Nutrition,
Pediatrics,
Prevention &
Treatment, Primary
Care, Water &
Sanitation

Rural Clinic,
Community Outreach

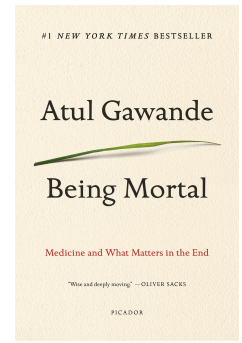
Alternative Site

Student chooses
among a variety of
GH topics and/or
develops their own
modules

Student arranges site
and supervisor

Healthy Aging & Quality Dying

Mariu Duggan, MD, MPH & Jim Jackson, PsyD



Science

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

Clinical Settings

Skills week

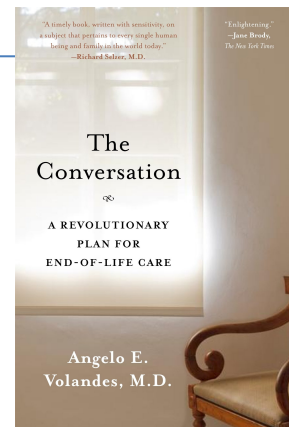
1 week inpatient (geriatrics ward, geriatrics consults, geri-psych unit)

1 week outpatient (primary care, specialty clinics)

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

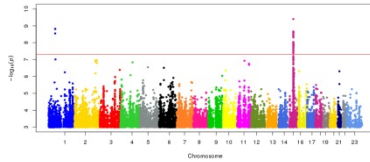
Specialty Interests

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

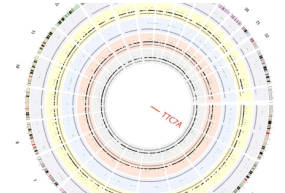


Immunity and Infections in the Immune-Compromised Host

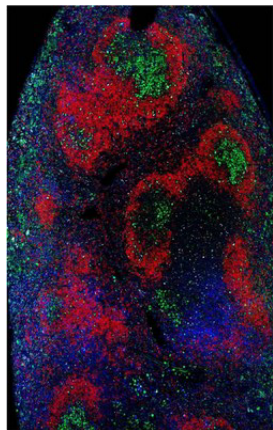
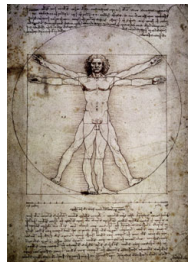
Daniel Dulek, MD



Course Goal



To expand students' understanding of the human immune system in a clinically relevant, broadly applicable, and accessible manner using clinical transplantation, genetic immune deficiency/dysregulation, and infectious diseases with an emphasis on discovery and critical thinking.



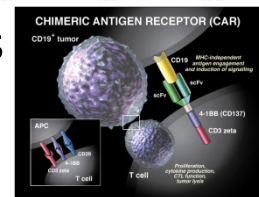
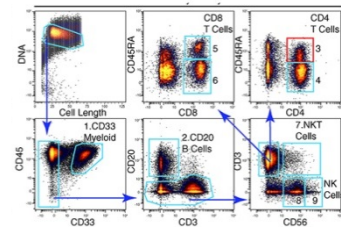
Foundational Science

- Immunology
- Genetics
- Molecular biology
- Pathology
- Microbiology
- Pharmacology

Clinical Settings

- Pediatric and Adult
- Solid Organ Transplant
- Stem Cell Transplant
- Transplant Infectious Diseases
- Interest driven 'electives'

Specialty Interests



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

Infectious Diseases

Holly Algood, PhD and Christina Fiske, MD

Science

Can you recognize common infections in different situations, employ principles of antibiotic stewardship, and utilize diagnostic testing to impact patient care?

Foundational Sciences: Virology, microbiology, molecular biology, immunology, pathophysiology, pathology.

Clinical Settings

1-week on 'inpatient service' (Pediatric or Adult), 1-week of 'outpatient clinics' (Pediatric, General Adult, HIV+), and 1-week in the Micro/Virology Lab

Specialty Interests

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

Injury, Repair, and Rehabilitation (IRR)

Mayur Patel, MD, MPH and Lillian Nanney, PhD

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

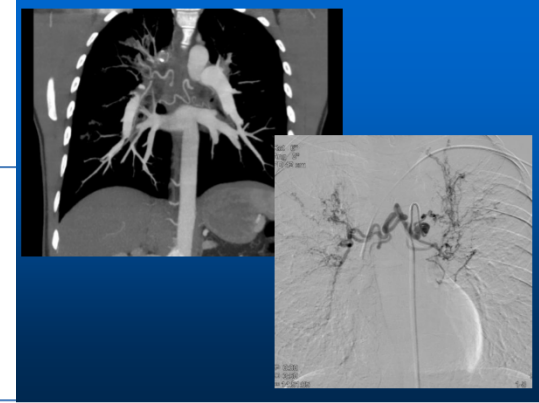
Surgery & Subspecialties, Emergency Medicine, Anesthesiology, and Aspiring MDs

Medical Imaging and Anatomy

Cari Motuzas, MD and Lillian Nanney, PhD

Science

Anatomy labs, radiation basics, contrast use, appropriate ordering

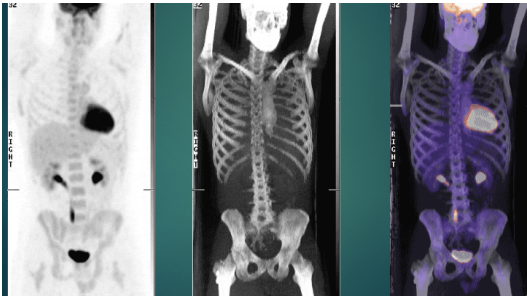
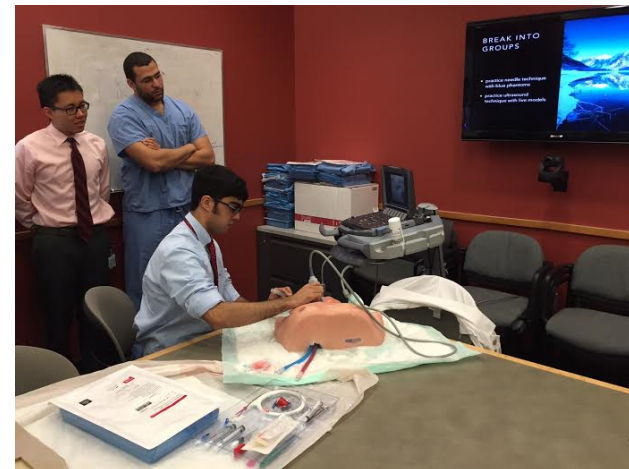


Clinical Settings

Observing scans & procedures in MRI and fluoroscopy;
Hands-on in CELA: Ultrasound & image-guided procedures;
Radiology reading room experience based on your interest

Specialty Interests

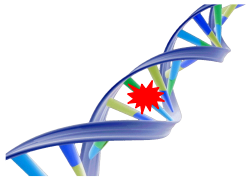
Individualized based on your interest! Internal Medicine, General Surgery, Emergency Medicine, Pediatrics, Neurology, Neurosurgery, Orthopedic Surgery, Ophthalmology, Ob-Gyn, ENT, General or Interventional Radiology, Radiation Oncology



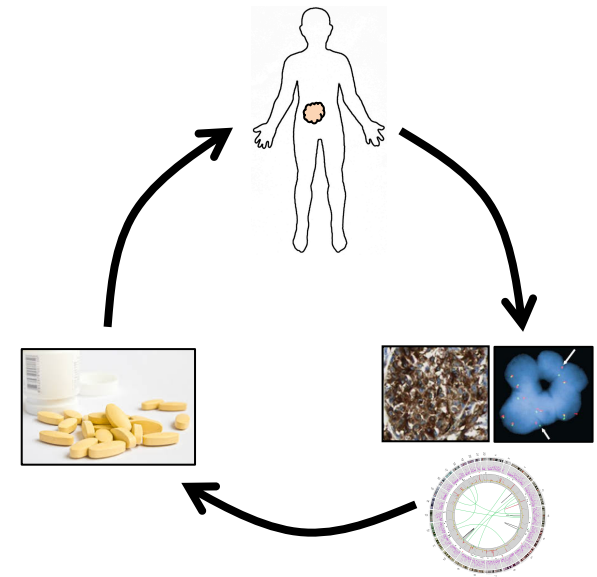
Precision Cancer Medicine

Kim Dahlman, PhD and Vicki Keedy, MD

Science



Histology, biochemistry, genetics, molecular biology, immunology, pathology, pharmacology, and toxicology



Clinical Settings

Personalized to your interests!

- 10 half-day sessions in oncology: medical, pediatric, radiation, or surgical
- 2 half-day sessions in: genetic counseling, pathology, and interventional oncology
- Additional clinical experiences are considered

Specialty Interests

Internal medicine (oncology & cardiology)
Pediatrics (oncology, genetics, & cardiology)
Pathology
Pharmacology

Radiation oncology
Reproductive medicine (gynecology)
Surgery (all types)
Translational research

Sexual Health and Medicine

Doug Milam, MD and Mary Romano, MD

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

John Cleek, MD and C. Robb Flynn, PhD

Science

Obesity and comorbidities including diabetes, prediabetes, obstructive sleep apnea, fatty liver disease, hypertension, dyslipidemia, intestinal malabsorption, and others

Clinical Settings

Pediatrics including pediatric weight management, pediatric hepatology, pediatric nephrology, pediatric ENT, pediatric sleep medicine, pediatric orthopedics. Adult including bariatric surgery clinic and OR, medical weight clinic with physicians, nurse practitioners, dietitians, and exercise physiologists, lipid clinic, and Eskind Diabetes Clinic

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, communication science, epidemiology, health policy, health determinants, implementation science, leadership & organizational management, pathophysiology, population & public health

Clinical Settings

- **3-month *longitudinal*** immersive experience in which students from multiple professions, residents & interprofessional faculty provide ***comprehensive clinical care & care navigation*** to **panel of patients** and families
- Three experiences done in parallel over 3 months (must do all three):
 - ISC in health systems science (includes QI project & leadership skills seminars)
 - ACE in population health
 - ACE in panel-based care

Information Session
March 13, 2017 from 5:00 PM – 6:00 PM in Light Hall 433
RSVP to Tyler b/c pizza and drinks will be served

(Select clinic: Mercury Courts, Familiar Faces, Pediatric Pulmonology, or Gen Peds)

- Students eligible for QI Advanced Track credit
- Meets primary care requirement (except Pediatric Pulmonology)
- 3-month blocks start **May '17, Sept '17, Feb '18, and May '18**

Specialty Interests

Population/Public Health Medicine, Internal Medicine, Pediatrics, Combined Internal Medicine-Pediatrics, Family Medicine, Primary Care

ISC Offerings in 2017-18

Course	Max enrollment per offering	Academic Year 2017-18 Sections												
		7	8	9	10	11	12	1	2	3	4	5	6	
Addiction	8			■		■				■	■			
Cancer	12			■					■			■		
Cardiovascular Diseases	8				■			■						
Community Healthcare	8			■					■				■	
Critical Illness	24			■	■				■					
Diabetes	4		■	■	■	■			■	■	■	■	■	
Emergency Care	6				■			■	■	■				
Global Health	8		■		■				■					
Healthy Aging and Quality Dying	8			■					■			■		
Immunity and Infections	8			■	■				■	■				
Infectious Diseases	12		■					■						
Injury, Repair, & Rehabilitation	8			■		■			■			■		
Medical Imaging and Anatomy	10				■	■	■	■		■				
Obesity	8			■	■				■	■	■			
Sexual Med	8	■			■				■					