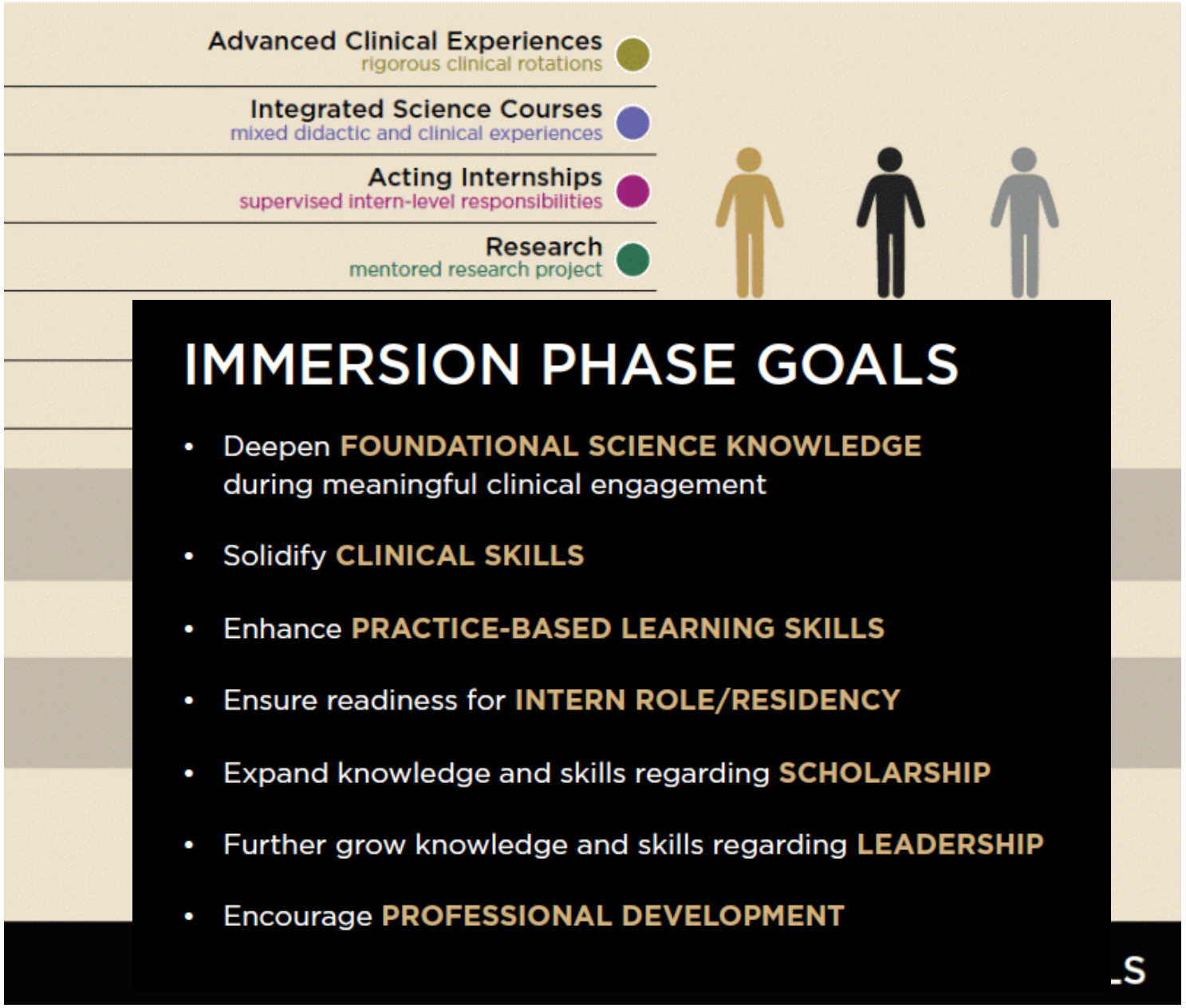
Immersion Phase
Class of 2022
Careers in Medicine Fair

What we'll cover tonight:

- Immersion Phase requirement reminders
- Student representative tips on Immersion Phase planning
- Integrated Science Course (ISC) introductions
- Video with Dean Fleming (video on your own)
- Meet with subspecialty advisors (30 min: via Zoom)

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 (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)		*Flex months (4 + 2 month for Step 1 + 1 month for interviews)*

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

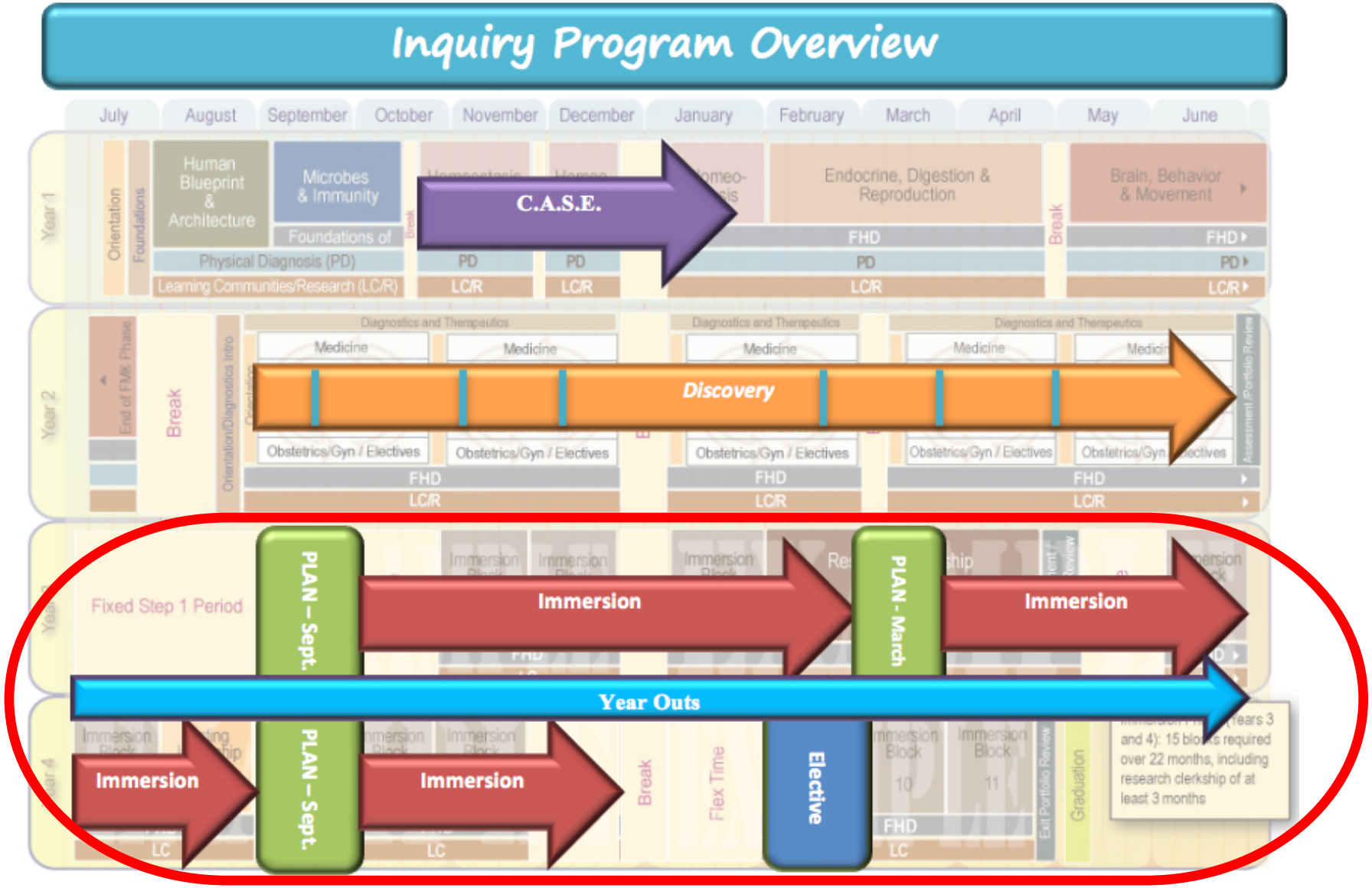
- Have several schedules planned and recognize that you will make many changes to your schedule
- Be mindful of your peers as you plan
- Discuss your IP Plan with your advisors, mentors, coach:
  - Year 3 should be approached as exploratory and to attain required competencies
  - Balance general medical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



FHD Immersion Course Information

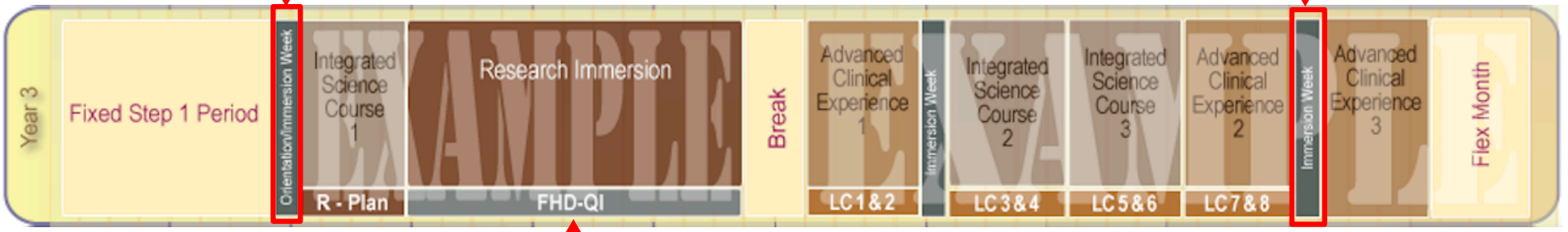
- 5 units taken during Immersion Weeks
  - You don't register for these
  - **Attendance is mandatory**

- 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/md-gateway/academic-resources/

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)



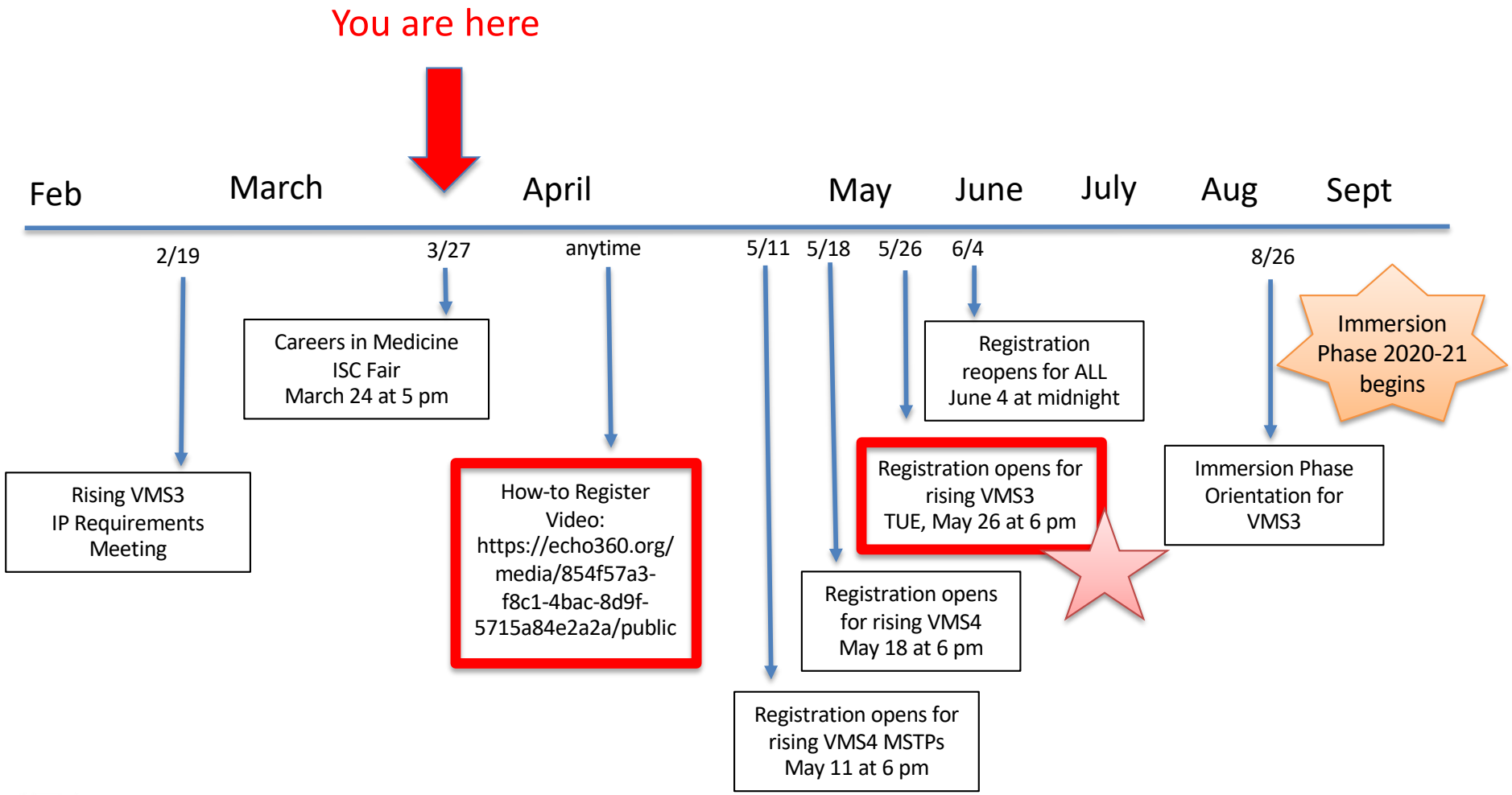
4 **QI 1-3/PS** longitudinally during 3rd year
IPE2 fulfilled either via one month longitudinal or other approved experience*

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

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

- Do not submit abstracts to meetings that occur during mandatory Immersion Weeks
  - Aug 24-28, 2020
  - Feb. 1-5, 2021
  - May 3-7, 2021
  - TBD Feb 2022

VMS2 Registration Timeline



Resources

- Class of 2022
  - https://medschool.vanderbilt.edu/md-gateway/class-of-2021-22-requirements/
- MD/PhD Pre-C2.0
  - https://medschool.vanderbilt.edu/ume/md-phd-requirements-pre-c-2-0/
- MD/PhD C2.0
  - https://medschool.vanderbilt.edu/md-gateway/mstp-c20-requirements/

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
- Health Equity
- 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, Lisa Mendes, MD, Ash Shah, MD, Robert Deegan, MD

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

- CV gross anatomy and imaging
- Cardio-oncology
- CV hemodynamics (normal, HF)
- Acute and chronic CHF treatment
- Vascular emergencies
- Pharmacology (anti-thrombotic, HF, anesthetic)
- Echo: U/S 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

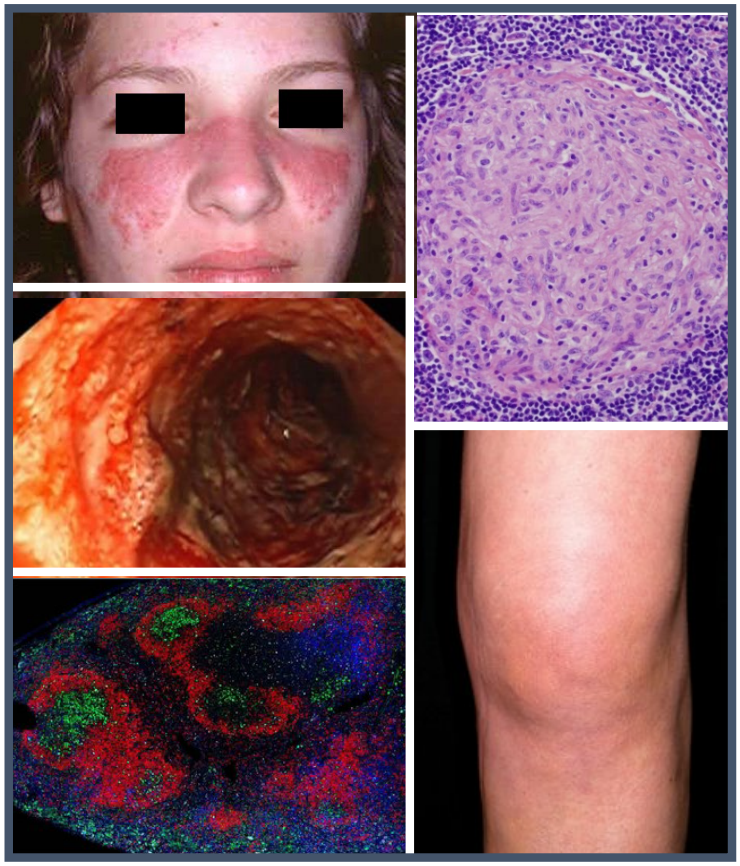
Prevention	Diagnosis	Treatment	Support Services	Post-Treatment
Screening	Imaging	Surgery	Care Coordination	Survivorship
Vaccination	Biopsy	Radiation	Community	Palliative Care
Education	Molecular Tests	Chemotherapy	Symptom Management	
	Tumor Boards	Targeted Therapy		
		Immune Therapy		

Clinically Applied Immunology

(aka Making Immunology Accessible for the Clinician)

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**

- Solid Organ Transplantation
- Rheumatology
- Hematopoietic Cell Transplantation
- Inflammatory Bowel Disease
- Immunocompromised Infectious Diseases
- Allergy/Immunology

Clinical Science

- Immunosuppressive drugs and their complications
- Opportunistic infections and specific risk factors
- Clinical problem solving
- Novel clinical immunotherapies

Community Healthcare

Course directors TBD

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 safety net primary care clinics working with vulnerable populations alongside experienced physicians.

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

Jennifer King, PharmD, Meredith Pugh, MD, Jeremy Walco, 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)

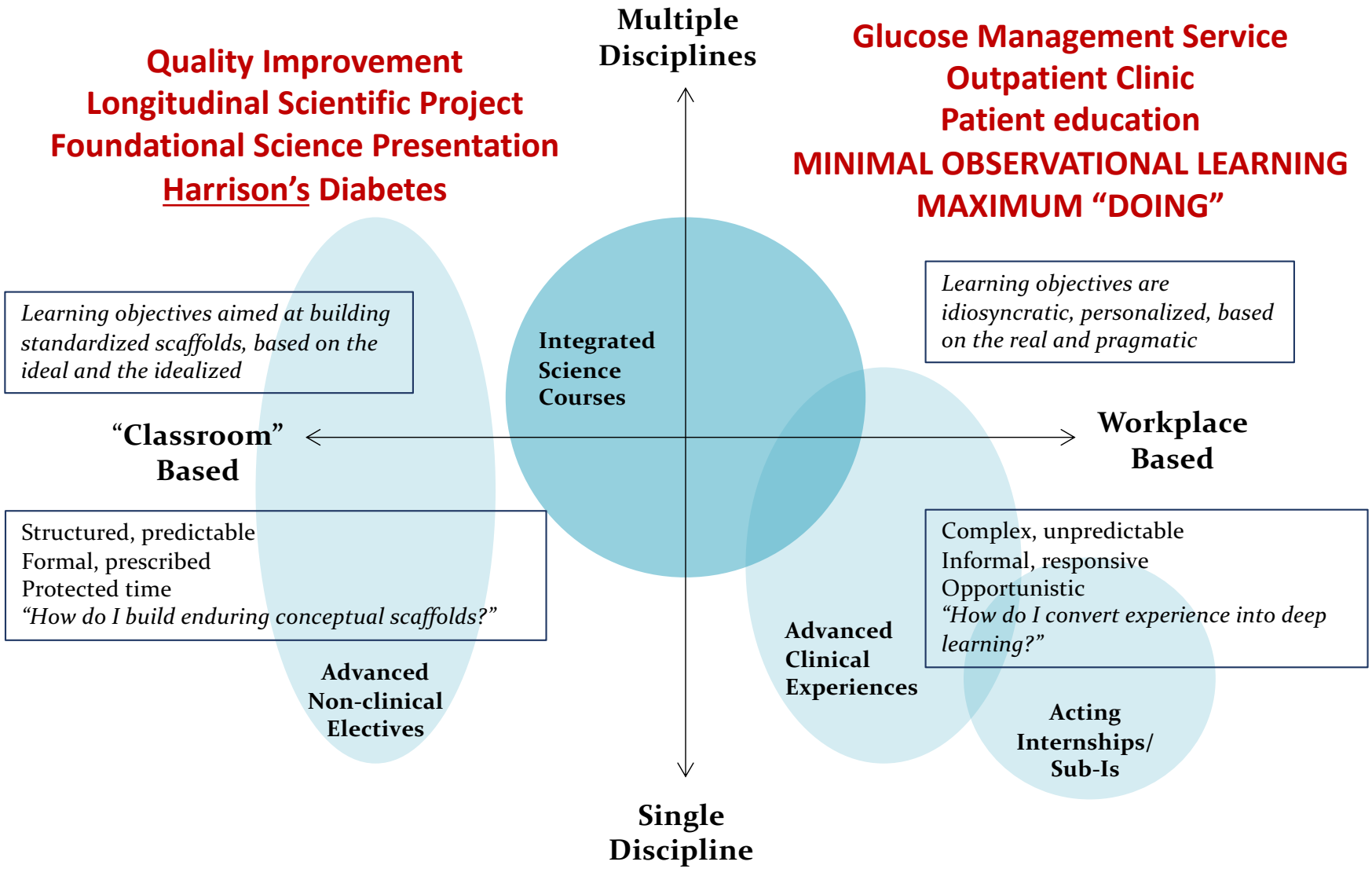
Specialty Interests

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

Diabetes

Michael Fowler, MD

Conceptual Framework



Diabetes

Michael Fowler, MD

Science

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

Clinical Settings

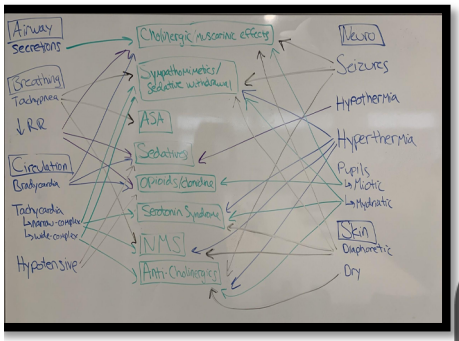
Diabetes Bootcamp followed by “sub-fellowship” in the glucose management service and endocrine consult service

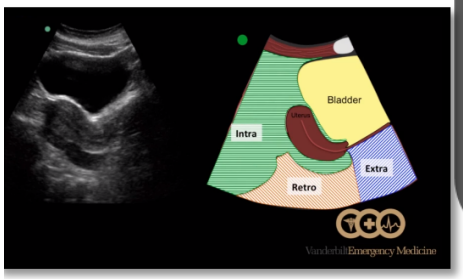
Specialty Interests

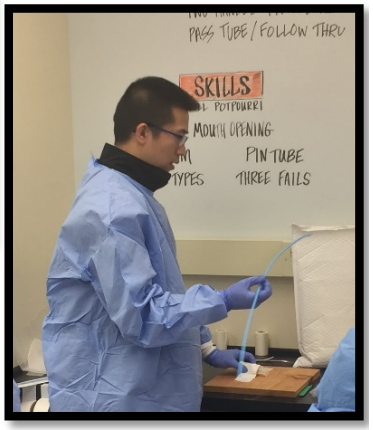
Internal Medicine and subspecialties, Family Medicine, Emergency Medicine, Surgical Subspecialties, Anesthesia, Radiology

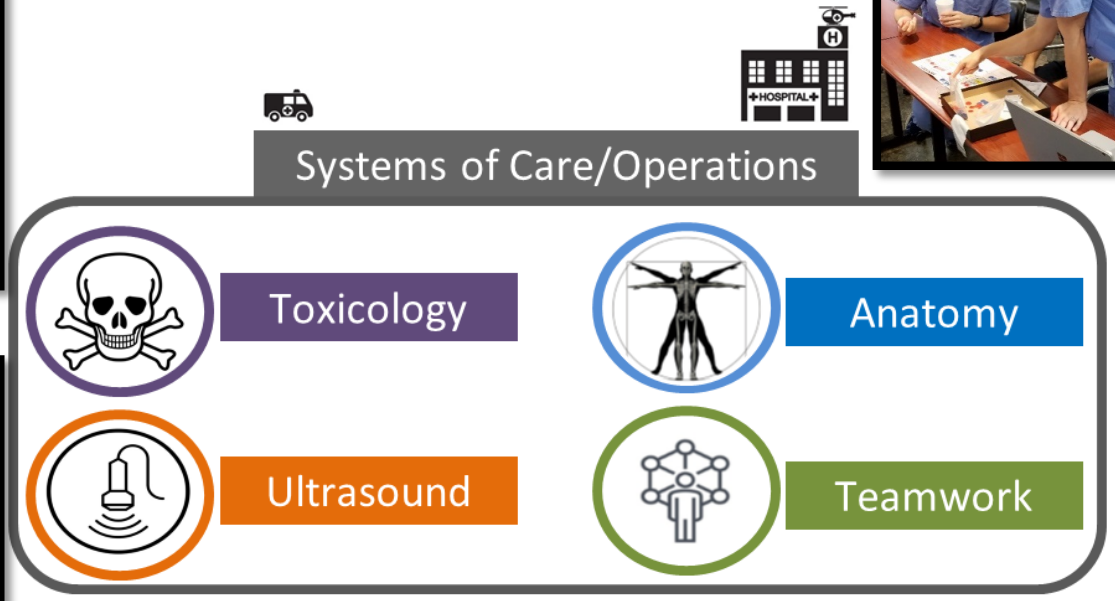
Emergency Care

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

Marie Martin, PhD, MEd & Dan Guiles, MD, MPH

Focus on health systems and health disparities with opportunities for rotations in various specialties

Clinical practice in resource-limited settings

Multiple international sites

Online modules

https://tinyurl.com/ISCGlobalHealth

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

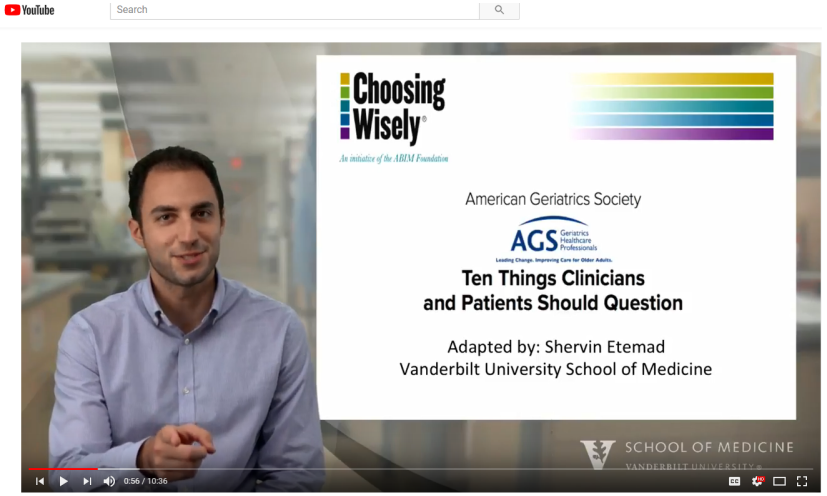
1-week inpatient (geriatrics wards/consults, geri-psych, nursing home, PCU)

1-week outpatient (primary care, specialty clinics)

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

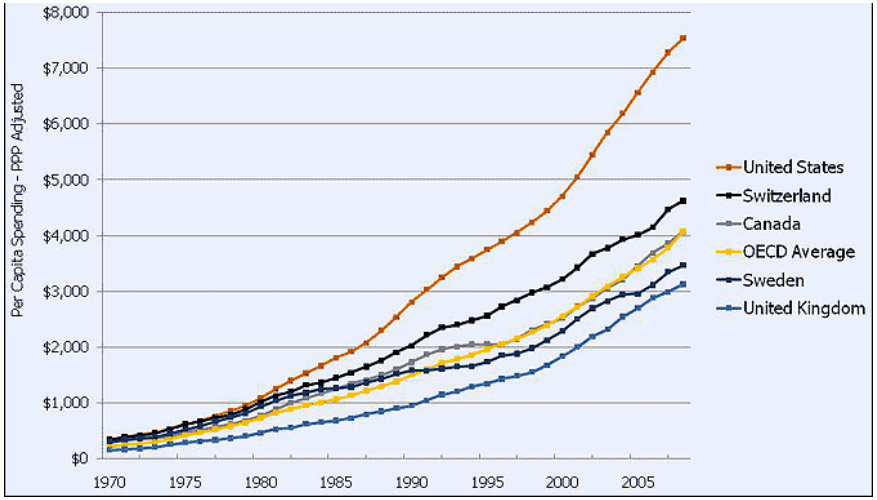
Specialty Interests

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



$ High Value Care $

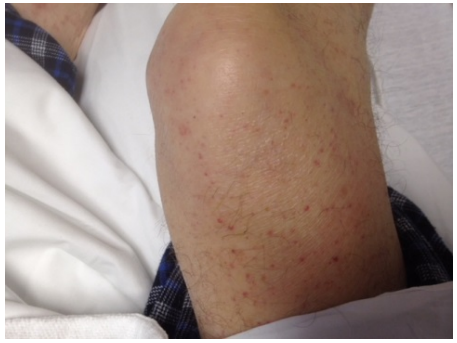
Krista Suojanen, MD

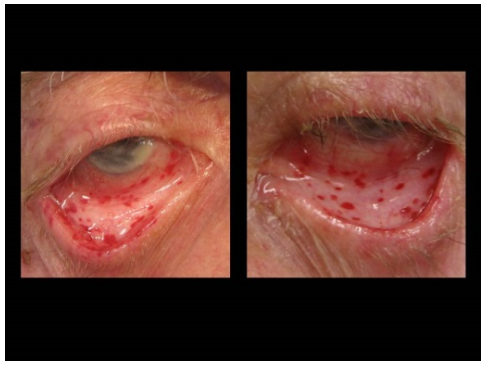


- Foundational Science: health systems science and engineering, ethics, implementation science, population health
- Didactics: lectures and discussion from variety of specialties and health policy faculty
- Case Based Learning: team based work on real-world examples of implementing high value care
- Clinical setting: individualized clinic experience based on students' desires, VFF, utilization management
- Specialty Interests: ANYONE!!

Infectious Diseases

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





Science

Microbiology, molecular biology, immunology, pathophysiology, pathology, antimicrobial stewardship, infection prevention, pharmacology

Clinical Settings

Inpatient consult service(Pediatric or Adult), outpatient clinics (Pediatric, General Adult, HIV), microbiology lab, Tennessee Department of Health

Specialty Interests

Internal Medicine and Pediatrics, Dermatology, Pathology, Surgical Specialties

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

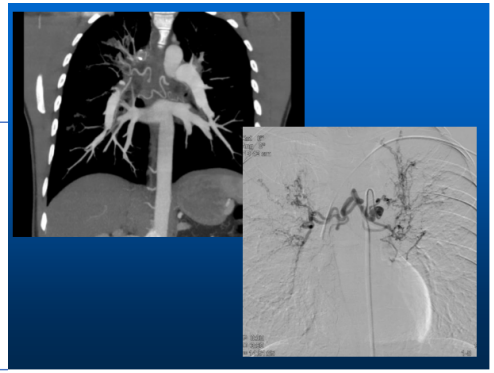
Trauma (ICU/Admits): 2 Nights and 2 Days
Wound Team: 0.5 Day
Medical Examiner's (Coroner's) Office: 2 Days
Stallworth Rehabilitation Hospital: 0.5 Day

Specialty Interests

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

Medical Imaging & Anatomy

Will Laxton, MD and Scott Pearson, MD



Science

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

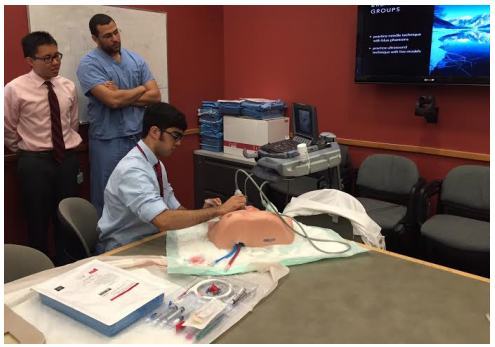
Clinical Settings

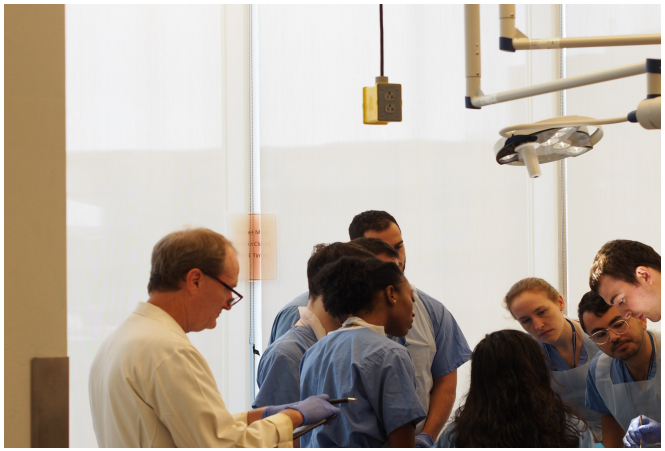
See MRI in action & procedures in fluoroscopy; Hands-on Ultrasound in CELA: SP & image-guided CVC placement; Practice being a Radiology resident; Radiology reading room experience*

Specialty Interests

***Individualized based on your interest**:

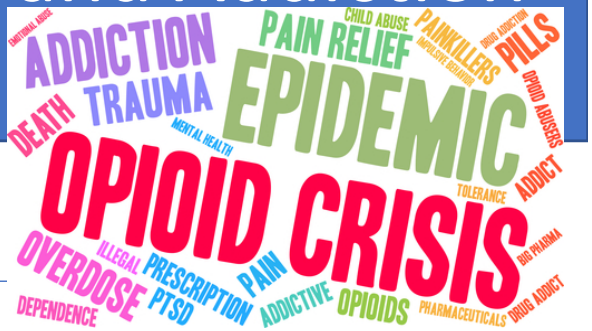
Internal Medicine, General Surgery, Emergency Medicine, Orthopedic Surgery, Pediatrics, Neurology, Neurosurgery, Ophthalmology, Ob-Gyn, ENT, Radiology, Radiation Oncology,





The National Opioid Crisis: Pain, Policy, and Addiction

Christine Konradi, PhD & Jenna Walters, MD



Science

Neurobiology, Physiology, Pharmacology, Psychology, Epidemiology, Public Health, Preventive Health, Science of Health Care Systems, Complementary and Alternative Medicine

Clinical Settings

Half Day Exposure twice a week

Inpatient Adult Chronic Pain, Outpatient Adult Chronic Pain, Inpatient Addiction Psychiatry, Osher Center for Integrative Medicine, Spine Surgical Clinic, Pediatric Inpatient Pain, Pediatric Outpatient Pain

Specialty Interests

Psychiatry, Anesthesiology, Pediatrics, Internal Medicine and subspecialties, Surgery and subspecialties, Ob/Gyn Orthopaedics, Family Medicine, Neurology, Emergency Medicine,

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
- Journal clubs on obesity interventions

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

ISC Offerings in 2020-21

Course	Max Enrollment per offering	Academic Year 2020-21											
		7	8	9	10	11	12	1	2	3	4	5	6
Cardiovascular Diseases	10				■				■				
Clinical Cancer Medicine	12			■					■				
Community Healthcare		to be determined											
Critical Illness	24			■					■		■		
Diabetes	4		■	■	■	■			■	■	■	■	
Emergency Care	6				■			■	■	■			
Global Health	unlimited	■	■	■	■	■	■	■	■	■	■	■	■
Healthy Aging and Quality Dying	8				■			■		■			
High Value Care	6			■					■			■	
Immunology, Clinically Applied	8					■		■		■			
Infectious Diseases	8			■				■	■				
Injury, Repair, & Rehabilitation	8			■					■		■		
Medical Imaging and Anatomy	9			■		■		■		■			
Obesity	5			■	■	■		■	■	■			
Opioid	6			■		■					■		
Sexual Health and Medicine	8				■			■			■		