Immersion Phase  
Class of 2018  
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

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 Requirements

<table>
<thead>
<tr>
<th>Minimum C2.0 Requirements (in Months)</th>
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<tbody>
<tr>
<td><strong>On-Campus</strong></td>
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<tr>
<td>Integrated Science Courses (ISCs)</td>
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<tr>
<td>4</td>
</tr>
<tr>
<td>Acting Internship (AI)</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>Advanced Clinical Electives (ACEs)</td>
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<tr>
<td>4</td>
</tr>
<tr>
<td><strong>On-Campus or Away</strong> (away with approval)</td>
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<tr>
<td>Research Immersion</td>
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<tr>
<td>3</td>
</tr>
<tr>
<td>Competency and Interest-Driven Rotations# (can be ISCs, ACEs, AIs or Electives)</td>
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<tr>
<td>3</td>
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<tr>
<td>15 required months</td>
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<tr>
<td>Must include:</td>
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<tr>
<td>1 Primary Care course (either ACE or ISC)</td>
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<tr>
<td>1 Acute Care course (EM or ICU-based course)</td>
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<tr>
<td>4+2+1 (7 total)</td>
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<tr>
<td>Flex months (4 + 2 month for Step 1 + 1 month for interviews)</td>
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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
- Acting Internships (AI) will happen between March of Y3 and September of Y4; students will not register themselves for these
- 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

• The entire class will be registered into the LC course

• A separate survey will go out after registration to sign up for specific units in specific months
  – 8 LC units over 19-month phase
Inquiry Program:
Courses During the Immersion Phase

- PLAN
- Research Immersion
FHD Immersion Courses: Curriculum 2.0

11 units over 4 blocks

- Advanced Communication: 2 units
- Interprofessional Education: 2 units
- Quality Improvement & Patient Safety: 4 units
- Advanced Population Health: 3 units
1. AC1 and IPE1 (Intro to Immersion Phase week)

2. AC2 and APH3 (3rd year spring intersession)

3. APH1 and APH2 (4th year winter intersession)

4. QI/PS1-4 longitudinally during 3rd year
   IPE2 fulfilled either via one month longitudinal or other approved experience*

*Such as Nicaragua, Shade Tree, VPIL, or other approved interprofessional experience
VMS2 Registration Timeline

- **IP Requirements Meeting Rising VSM3**
- **Tentative Date 3/7**
- **Careers in Medicine ISC Fair @ 5:00PM**
- **3/30**
- **How to Register Meeting @ 5:00PM**
- **4/4**
- **Register Rising VSM3 Opens at 6:00pm (until 4/24 @ 11:59pm)**
- **11**
- **Register Rising VSM4 Opens at 6:00pm (until 4/17 @ 11:59pm)**
- **18**
- **Register MD/PhD Opens at 6:00pm (until 4/10 @ 11:59pm)**
- **28**
- **Registration reopens for ALL 4/28 @ 12:00am**

**Immersion Phase 2016-17 Begins**

Feb: 2/4
Mar: Tentative Date 3/7, Careers in Medicine ISC Fair @ 5:00PM
Apr: 3/30, How to Register Meeting @ 5:00PM, 4/4, Register Rising VSM3 (until 4/24), 11, Register Rising VSM4 (until 4/17), 18, Register MD/PhD (until 4/10), 28
May: Registration reopens for ALL 4/28
June: July
Documents from Tonight

• Class of 2018
  – https://medschool.vanderbilt.edu/ume/class-2018-requirements

• MD PhD Class of 2017
  – https://medschool.vanderbilt.edu/ume/md-phd-2017
Careers in Medicine

https://medschool.vanderbilt.edu/cim/content/pathway-match

Pathway to Match

Your guide to succeeding in the residency application process

- CALENDAR
- CHECKLIST
- GETTING STARTED
- WORKSHOP SERIES
- EARLY MATCH
- APPLICATION PROCESSING
- ERAS
- NRMP
- USMLE
- LETTERS OF RECOMMENDATION
- MSPE
- CV
- PERSONAL STATEMENT
- INTERVIEWING
- ASSESSING PROGRAMS
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 (Downtown Clinic, Madison Clinic, or Casa Clinic), 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
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

Varied clinical opportunities in outpatient clinics, consult psychiatry, homeless shelter, residential treatment for women with young children

Specialty Interests

Primary Care * Surgery * Pain Management * Adolescent Medicine * Psychiatry * Neurology
Global Health
Doug Heimburger, MD, MS

**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 (Note: additional foundational science areas could be covered depending on the site)

**Clinical Settings & Specialty Interests**

<table>
<thead>
<tr>
<th>Central America</th>
<th>Jordan</th>
<th>Kenya</th>
<th>Alternative Site</th>
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</thead>
<tbody>
<tr>
<td>Cancer, Cardiology, EM, IDs, NCDs, Nutrition, Pathology, Primary Care, Public Health, QI</td>
<td>Cancer, Genetic Diseases, NCDs, Pathology, Pediatrics, Quality Improvement</td>
<td>IDs, HIV/AIDS, MCH, Nutrition, Prevention &amp; Treatment, Primary Care, Public Health, Water &amp; Sanitation</td>
<td>Student chooses among a variety of GH topics or develops their own modules</td>
</tr>
<tr>
<td>Teaching Hospital, District Hospital, Rural Clinic, University Laboratory</td>
<td>Teaching Hospital, Gov’t Hospital, Refugee Camp, Cancer Center</td>
<td>Rural Clinic, Community Outreach</td>
<td>Student arranges site and supervisor</td>
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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)
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

*Advanced Trauma Life Support (ATLS) Training and Certification
*Advanced Surgical Skills for Exposure in Trauma (ASSET) Audit

**Clinical Settings**

Trauma (ICU/Admits): 3 Nights and 3 Days (1 Trauma Junior Resus)
Medical Examiner’s (Coroner’s) Office: 2 Days
Stallworth Rehabilitation Hospital: 1 Day

**Specialty Interests**

Surgery & Subspecialties, Emergency Medicine, Anesthesiology, Medicine & Subspecialties, Radiology, Pathology, Physical Medicine & Rehabilitation, Obstetrics, Pediatrics, Geriatrics, Primary Care
Medical Imaging and Anatomy
Cari Buckingham, MD and Lillian Nanney, PhD

Science

- Anatomy, radiation basics, contrast use, appropriate ordering

Clinical Settings

- Observing scans in CT, MRI, and fluoroscopy;
- Hands-on in CELA; work with residents doing image-guided procedures;
- Radiology reading room experience based on your interest

Specialty Interests

- 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, Mary Hooks, MD and Vicki Keedy, MD

**Science**
Anatomy, physiology, histology, biochemistry, cell biology, genetics, molecular biology, immunology, pathology, pharmacology, radiobiology, and toxicology

**Clinical Settings**
Students will participate in 10 half-day sessions in 1 of the following clinical settings (of their choice): medical oncology, pediatric oncology, radiation oncology, or surgical oncology. Students will also select 2 half-day sessions in 2 of the following clinical settings: genetic counseling, pathology, and interventional oncology. Additional clinical experiences will be considered

**Specialty Interests**
Internal medicine (especially Oncology & Cardiology), Pediatrics (especially oncology, genetics, & cardiology), Pathology, Pharmacology, Radiation oncology, Reproductive medicine (gynecology), Surgery (all types), & Translational research
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
**Sexual Medicine and Fertility**

Doug Milam, MD and Mary Romano, MD

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**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.

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**Clinical Settings**

Students will have hands on experience in outpatient clinics such as Adolescent medicine, Urologic surgery, Obstetrics/Gynecology

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**Specialty Interests**

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