1. **Ultrasound Lecture Series**: Monthly didactic component of core topics (Vascular/Procedural guidance, FAST, TTE, Lung)

2. **Introductory Workshop**: Review of curriculum, introduction to machines used at Shands, and basic review of the core applications performed in ICU setting through multimedia lectures and interactive cases

3. **CCM Journal Club**: Quarterly journal club occurring during noon lecture presented by fellow

4. **Quality Review**: Bi-weekly Q&A process to review with faculty/fellows

5. **Precourse/Postcourse training exams**: At beginning and end of fellowship (for fellows); includes multiple choices and video recognition

6. **Self Directed Learning**: Published reading material distributed monthly, video, and web based learning instruction modules; MyTraining Modules for UF fellow/faculty/staff/students

7. **Bedside Proctored Practice & CCM Ultrasound Scanning Rounds**: Monthly patient proctored experience for fellows (Individual trainers vary by month). Ultrasound scanning rounds occur on Tuesdays from 3:30 to 4:30 pm in order to obtain abnormal scans for trainees to place into portfolio (other physicians may coordinate individual sessions – email rohitpatel@ufl.edu)

8. **Hands On Training Simulation Sessions (@UF Simulation Center)**: Simulated training sessions on specific core ultrasound procedures by faculty; as well as tricks of the trade in obtaining images from our ultrasound techs; available after every didactic lecture 2-3pm - email rohitpatel@ufl.edu

9. **Critical Care Ultrasound Conference**: Topics covered include lung, basic TTE, hTEE, vascular, procedural, abdominal; focused toward attending physicians to supplement didactic series as a review conference

10. **Individual competence based test**: Real time ultrasound competency evaluation at end of year for fellows for completion of ultrasound curriculum

11. **Advanced ICU ultrasound lectures**: critical care focus topics change from system based to problem based; ultrasound for the evaluation of: Hypotension, Respiratory Distress, Oligoanuric Patient, Cardiac arrest & ROSC

**A= Attendance Mandatory for CCM fellows; Self Directed Learning to be completed**

**Curriculum Breakdown**

25 Didactic hours

>125 Self Learning hours

24 “Hands On” Simulation hours (optional)

16 Ultrasound Conference hours (optional)

12 Research Interest group hours (optional)

40 Scanning round hours (optional)

>200 total hours available towards curriculum (other CME from various sources will be accepted into individual ultrasound portfolio, please submit to rohitpatel@ufl.edu)

**ALL dates subject to change, please review most current CCM schedule, or email rohitpatel@ufl.edu if interested in attendance**

See Core Lectures PDF for Lecture Information: All lectures in ST 4016, 12pm to 1pm

**July**
Didactic Module - Ultrasound Basics: Probes and Modes (21 credit hours); on MyTraining

1. **A Self Directed Learning (Didactic Module) including Self Learning Tests (21 credit hours)**
   a. Introduction Module: Available on MyTraining (3 credit hours)

2. **CCM Ultrasound Scanning Rounds** – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions, email rohitpatel@ufl.edu)

3. **Hands On Simulation with Faculty supervision**: Simulation Lab; Harrell Center; email rohitpatel@ufl.edu to reserve spot (max 3)

**August**

Didactic Module - Ultrasound Basics: Probes and Modes (21 credit hours) & Procedural Guidance (20 credit hours); on MyTraining

1. **A Introductory workshop 1 & 2 sessions**: Basic Vascular, Abdomen, Transthoracic, and Lung ultrasound exams; August 21 & 23

2. **A Self Directed Learning (Didactic Module) including Self Learning Tests (20 credit hours)**

3. **A hTEE Workshop**: ST 4016; August TBA (12-5pm): Review website powerpoint slideset:
   b. hTEE (hemodynamic TEE): How to save: [https://com-anest.sites.medinfo.ufl.edu/files/2015/07/hTEE-how-to.pdf](https://com-anest.sites.medinfo.ufl.edu/files/2015/07/hTEE-how-to.pdf)
   c. hTEE Troubleshooting tips: [https://com-anest.sites.medinfo.ufl.edu/files/2015/07/Trouble-shooting-tips-for-hTEE.pdf](https://com-anest.sites.medinfo.ufl.edu/files/2015/07/Trouble-shooting-tips-for-hTEE.pdf)

4. **CCM Ultrasound Scanning Rounds** – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions at other times, email rohitpatel@ufl.edu)

5. **Hands On Simulation with Faculty supervision**: Simulation Lab; Harrell Center; email rohitpatel@ufl.edu to reserve spot (max 3)

6. **Critical Care Ultrasound Research and Interest group meeting** AFTER every Didactic lecture (every other Tuesday, see above for dates)

**September**

Didactic Module: Lung (21 credit hours); on MyTraining

1. **A Ultrasound Lecture Series**: September 4, 2018 Basics 1

2. **A CCM Ultrasound Quality Review**: September 18, 2018 Basics 2

3. **A Self Directed Learning (Didactic Module) including Self Learning Tests (21 credit hours)**

4. **CCM Ultrasound Scanning Rounds** – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions at other times, email rohitpatel@ufl.edu)

5. **Hands On Simulation with Faculty supervision**: Simulation Lab; Harrell Center; email rohitpatel@ufl.edu to reserve spot (max 3)

6. **Critical Care Ultrasound Research and Interest group meeting** AFTER every Didactic lecture (every other Tuesday, see above for dates)
October
Didactic Module: Echocardiogram Basic (19 credit hours) ; on MyTraining

1. A Ultrasound Lecture Series – October 2, 2018 Vascular Procedural
2. A Self Directed Learning (Didactic Module) including Self Learning Tests (19 credit hours)
3. A Joint Critical Care Ultrasound Journal Club: October 16, 2018 FAST/EFAST
4. CCM Ultrasound Scanning Rounds – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions at other times, email rohitpatel@ufl.edu)
5. Hands On Simulation with Faculty supervision: Simulation Lab; Harrell Center; email rohitpatel@ufl.edu to reserve spot (max 3)
6. Critical Care Ultrasound Research and Interest group meeting AFTER every Didactic lecture (every other Tuesday, see above for dates)

November
Didactic Module: Abdomen Trauma (20 credit hours) ; on MyTraining

1. A Ultrasound Lecture Series: Advanced Ultrasound: November 6, 2018 Lung Basic
2. A Self Directed Learning (Didactic Module) including Self Learning Tests (20 credit hours)
3. A CCM Ultrasound Journal Club and Quality Review – Topic: November 20, 2018 Cardiac Basic
4. CCM Ultrasound Scanning Rounds – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions at other times, email rohitpatel@ufl.edu)
5. Hands On Simulation with Faculty supervision: Simulation Lab; Harrell Center; email rohitpatel@ufl.edu to reserve spot (max 3)
6. Critical Care Ultrasound Research and Interest group meeting AFTER every Didactic lecture (every other Tuesday, see above for dates)

December
Didactic Module: Shock (12 credit hours) ; on MyTraining

1. A Ultrasound Lecture Series: December 4, 2018 LV Function
2. A Self Directed Learning (Didactic Module) including Self Learning Tests (12 credit hours)
3. A Joint Critical Care Ultrasound Journal Club: Topic: December 18, 2018 Pulmonary Edema
4. CCM Ultrasound Scanning Rounds – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions at other times, email rohitpatel@ufl.edu)
5. Hands On Simulation with Faculty supervision: Simulation Lab; Harrell Center; email rohitpatel@ufl.edu to reserve spot (max 3)
6. Critical Care Ultrasound Research and Interest group meeting AFTER every Didactic lecture (every other Tuesday, see above for dates)

January
Module: Advanced Lung (21 credit hours) ; on MyTraining
1. A Ultrasound Lecture Series – January 1, 2019 RV Function
2. A CCM Ultrasound Quality Review: January 15, 2019 Inferior Vena Cava
3. A Self Directed Learning (Didactic Module) including Self Learning Tests (21 credit hours)
4. CCM Ultrasound Scanning Rounds – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions at other times, email rohitpatel@ufl.edu)
5. Hands On Simulation with Faculty supervision: Simulation Lab; Harrell Center; email rohitpatel@ufl.edu to reserve spot (max 3)
6. Critical Care Ultrasound Research and Interest group meeting, AFTER every Didactic lecture (every other Tuesday, see above for dates)

February
Didactic Module: Echocardiogram Advanced (20 credit hours); on MyTraining

1. A Ultrasound Lecture Series: Advanced Ultrasound: February 5, 2019 Aorta Critical Care
2. A Self Directed Learning (Didactic Module) including Self Learning Tests (20 credit hours)
4. CCM Ultrasound Scanning Rounds – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions at other times, email rohitpatel@ufl.edu)
5. Hands On Simulation with Faculty supervision: Simulation Lab; Harrell Center; email rohitpatel@ufl.edu to reserve spot (max 3)
6. Critical Care Ultrasound Research and Interest group meeting, AFTER every Didactic lecture (every other Tuesday, see above for dates)

March
Didactic Module: Vascular (20 credit hours); on MyTraining

1. A Ultrasound Lecture Series: March 5, 2019 Cardiac Emergency Evaluation
2. A Self Directed Learning (Didactic Module) including Self Learning Tests (20 credit hours)
3. A Joint Critical Care Ultrasound Journal Club: Topic: March 19, 2019 Pleural Effusion
4. CCM Ultrasound Scanning Rounds – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions at other times, email rohitpatel@ufl.edu)
5. Hands On Simulation with Faculty supervision: Simulation Lab; Harrell Center; email rohitpatel@ufl.edu to reserve spot (max 3)
6. Critical Care Ultrasound Research and Interest group meeting, AFTER every Didactic lecture (every other Tuesday, see above for dates)

April
Didactic Module: Miscellaneous Optional Uses (Gallbladder/Aorta/Renal) (12 credit hours); on MyTraining
1. A CCM Ultrasound Quality Review: April 2, 2019 DVT
3. A Self Directed Learning (Didactic Module) including Self Learning Tests (12 credit hours)
4. CCM Ultrasound Scanning Rounds – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions at other times, email rohitpatel@ufl.edu)
5. Hands On Simulation with Faculty supervision: Simulation Lab; Harrell Center; email rohitpatel@ufl.edu to reserve spot (max 3)
6. Critical Care Ultrasound Research and Interest group meeting AFTER every Didactic lecture (every other Tuesday, see above for dates)

May
Putting it all together: Ultrasound Algorithms to Approach common conditions in the ICU: Hypoxia/Hypotension/Fever/Oligoanuria

1. A Ultrasound Lecture Series : May 7, 2019 Pneumonia
3. CCM Ultrasound Scanning Rounds – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions at other times, email rohitpatel@ufl.edu)
4. Hands On Simulation with Faculty supervision: Simulation Lab; Harrell Center; email rohitpatel@ufl.edu to reserve spot (max 3)
5. Critical Care Ultrasound Research and Interest group meeting AFTER every Didactic lecture (every other Tuesday, see above for dates)

June
Final review of material and testing (5 credit hours)
1. Testing Month for Fellows/Extenders
2. A Self Directed Learning (Final Testing Module) (5 credit hours): on MyTraining
3. A Ultrasound Lecture Series : June 4, 2019 Shock
4. CCM Ultrasound Scanning Rounds – Every Tuesday from 3:30 to 4:30pm (scheduled sessions, if you want to schedule individual sessions at other times, email rohitpatel@ufl.edu)
5. Critical Care Ultrasound Research and Interest group meeting AFTER every Didactic lecture (every other Tuesday, see above for dates)
6. A End of year ultrasound review; report of number done and other relevant info: A Ultrasound Lecture Series: June 18, 2019 Final Testing and Exit Information
7. A Post-curriculum training test
8. A Individual competence based test on real patients (Scheduled individually)
9. ICU curriculum completion letters to be given to successful candidates