

SOUTH COLLEGE  
Masters of Health Science Physician  
Assistant program  
Fundamentals of Surgery  
PAS 5530

**The University of Tennessee Medical  
Center**

**Graduate School of Medicine**

**Department of Surgery**



# Schedule

- Quarter Dates: October 9-December 14 2009
- Holidays: November 26-29, 2009
- Course Director: Brian J. Daley, MD, MBA
- Instructors: Jose Aycinena, MD; James Chalk, MD; Brian Daley, MD, MBA; Allan Dunlap, MD; Blaine L. Enderson, MD; Mitchell Goldman, MD; Melinda Klar, RN; Stanley J. Kurek, DO; Christy Lawson, MD; John Milligan, MD; Todd A. Nickloes, DO; Judy Roark, CST; Sabina Siddiqui, MD; Lou Smith, MD; Dana Taylor, MD; Brian K. Tucker, DO
- Lecture: Friday 1 - 5pm (per syllabus)
- Lab: per schedule

# Instructors

- Office Hours: By Appointment 305-6058
- Contact Method: [bdaley@mc.utmck.edu](mailto:bdaley@mc.utmck.edu)
- Credit Hours: 4 lectures & 2 lab
- Lab Hours: 2 per week
- Prerequisites: Successful completion of the 4<sup>th</sup> quarter of the Physician Assistant Program



# Brian J. Daley, MD, MBA, FACS, FCCP, CNSC

- Tulane University: BS and MD, Internship
- Columbia/Bassett: Surgical Residency
- Iowa: Research Fellowship
- Harvard: Nutrition Fellowship
- UMDNJ/Cooper: Trauma/CC Fellowships
- Tennessee: MBA

# Brian J. Daley, MD, MBA, FACS, FCCCP, CNSC

- Professor of Surgery
  - 1996 to present
- Associate Program Director
- Researcher
  - Trauma and Nutrition Lab
- Private Practice
  - Seven MDs, Three MLPs, Four AP RNs, Five LPNs

# TEST/STUDENT MATERIALS

Students will be responsible for all assigned materials identified, as well as supplemental material distributed during class sessions.

## Required texts

- Lawrence, P.F., (2006). Essentials of General Surgery (4<sup>th</sup> ed.). Baltimore, MD: Lippincott Williams & Wilkins.

## Reference texts

- Silen, W., (2000). Copes Early Diagnosis of the Acute Abdomen (20<sup>th</sup>ed). New York, NY: Oxford University Press.
- Aluisio, F.V., (1998). Orthopedics for the House Officer (2<sup>nd</sup>ed). Baltimore, MD: Lippincott Williams & Wilkins.

# COURSE DESCRIPTION

This course is designed to provide the students with an introduction and an overview to the discipline of surgery. The management of acute surgical problems, critical illness, solid organ malignancies, and elective surgical procedures will be discussed, as well as the pre- and post- operative care of surgical patients. Laboratory sessions will teach technical skills such as sterile technique, basic suturing, universal precautions, and minor surgical procedures.



# COURSE OBJECTIVES

1. Develop an approach to evaluating evidence based surgical literature and incorporating it into daily practice.
2. Evaluate, diagnose and manage patients with surgical related illness.
3. Understand the pathophysiology of critical illness, recognizing the subtleties of early critical illness and apply applicable early goal directed therapies.
4. Have a general understanding regarding the use of and technical aspects associated with common surgical procedures.



# COURSE OBJECTIVES

5. Develop a complete peri-operative plan of care and recognize common surgical complications and their treatment.
6. Demonstrate proper operative suite technique including scrubbing, gowning, gloving and working in the operative environment.
7. Demonstrate a baseline knowledge of surgical procedures and first assistant technique.

# Competencies - Goals

- Patient Care
- Medical Knowledge
- Practice Based Learning and Improvement
- Interpersonal and Communication Skills
- Professionalism
- Systems Based Practice

# EVALUATION

To satisfactorily complete this course, the student must earn a grade of “C” (70%) or better.

# of Evaluations	Evaluation Mechanisms	% of Grade for each	Total
1	Current surgical literature projects	20%	20%
5	Quizzes	4%	20%
2	Cumulative examinations	20%	40%
1	Comprehensive final examination	20%	20%
10		<b>Total Grade</b>	<b>100%</b>

# GRADING SCALE

90 – 100% = A

80 – 89 % = B

70 -79 % = C

<70 % = F



# TESTING DATES

- QUIZES – 30 mins.
- 10/9
- 10/23
- 11/6
- 11/13
- 11/20
- CUMULATIVE EXAMS – 60 mins.
- 10/30
- 11/25

**COMPREHENSIVE EXAM 12/14**

**9 am**



# Learning changes as we age....

- Pedagogy
  - Dependent, passive learner
  - Subject oriented
  - Indoctrination
- Andragogy
  - Active learner
  - Life/Experience oriented
  - Self-directed



# Thinking skills

- Basic to advanced
  - Knowledge/Recall - memory
  - Comprehension - understanding
  - Application – problem solving
  - Analysis – break down of solution
  - Synthesis - create
  - Evaluate - judgment



# Keys to adult learning

- Problem Centered
- Supportive environment
- Experience Oriented
- Active
- Feedback



# Means to achieve

- Needs Assessment
- Teachable moment
- Facilitate
- Evaluate



# Teaching Technique

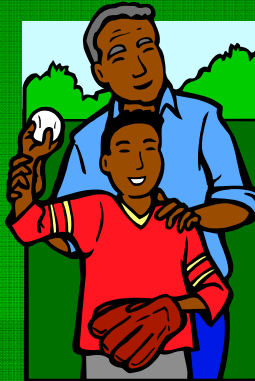
- Coordination and organization of tasks
- Sequence – show and tell, watch and ask, tell them again, let them alone – recheck.
- Mastery – series of steps =  
unconsciously incompetent, consciously incompetent, **consciously competent**,  
unconsciously competent

# Ways to measure

- Formative v. Summative
- Feedback v. outcome
- Feedback = info on current performance used to improve, i.e. coaching
- Summative = final outcome of entire process, i.e. evaluation

# Feedback

- Timing
- Environment
- Non-judgmental
- Direct observation
- Specific information/direction
- Both pluses and minuses



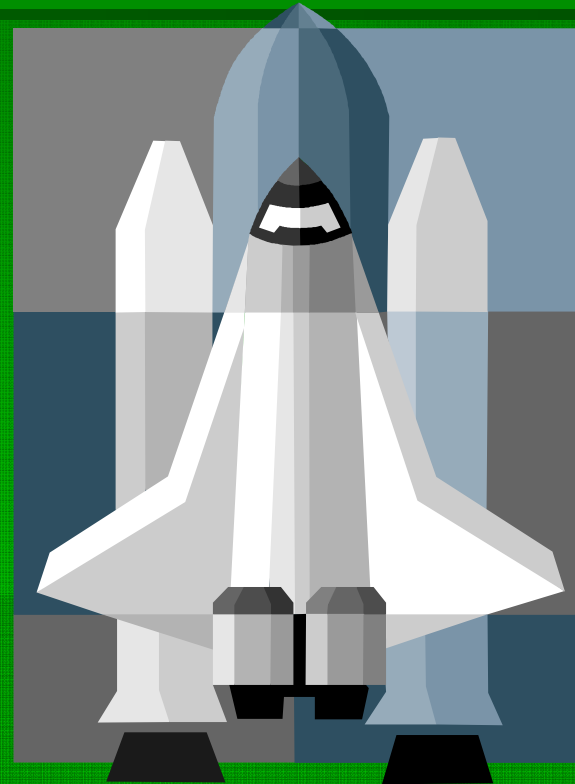
# Microskills of Clinical Teachers

- Commitment
- Probe for evidence
- General rules
- Reinforce right
- Correct wrongs



# Surgery is Different

- Physical Performance
- Risky
- Variable
- Observable over sustained periods
- Technological revolution





# Affective Domain



- Receiving
- Responding
- Valuing
- Organization
- Ranking or ordering of information

# Psychomotor Domain

- Perception
- Set
- Guided Response
- Mechanism
- Complex Overt Response
- Adaptation
- Origination



# Teaching Style

- Golf Pro
  - Fundamentals
  - Techniques
  - Strategy
- Student
  - Practice
  - Practice
  - Practice



# Course Approach

- Lectures
- Case Studies
- Quizzes and Exams
- Study Project
- Laboratory



# Surgical Literature Project

- Goals:
  - Develop Life Long Learning habits
  - Appreciate Practice Based Learning
  - Demonstrate Teamwork
  - Interactive Evidence Based Medicine

# Surgical Literature Project

- Objective: Developed an Evidence Based Practice Guideline
- Topic: Choice of Surgical Topic
  - e. g.: Use of CT in Diagnosing Appendicitis
- Teams: 7 groups of 4 - 8
- DUE 10/30!

# Surgical Literature Project

- Use Primer found in east.org Practice Guidelines website
- Limit Literature search to 10 Years and in English
- Limit to 10 papers
- May use up to 3 reviews



# Surgical Literature Project

- Format
  - Statement of problem
  - Question(s) addressed
  - Graded Recommendations
  - Brief literature review
  - References and grades
  - Maximum of Five Pages
  - One Page Self Assessment

# Surgical Literature Project

- Assessment

- Self: Team Player, value to the team
- Fellow Teammates: Team Players, value to the team
  - Exceeds Expectations
  - Meets Expectations
  - Below Expectations

- Grading based on clinical applicability, team assessment and end product

# Summary

- Adults learn differently
- Multifaceted Approach
- Coaching v. Educating
- Hallmark of both is effective two-way communication

