

**2009
Clinical Microanatomy
BMS 6110
Course Schedule**

Color codes for course activities:

Microanatomy Lectures

Team-based learning: Laboratory Sessions

Large and Small group cases

Molecular Medicine lectures

Lecture review/Student presentations and quizzes

Examination Tutorials

Examinations

Week 1: Histological Methods and Cell Biology

| Hour | Monday 8-24 | Tuesday 8-25 | Wednesday 8-26 | Thursday 8-27 | Friday 8-28 |
|-----------|---|---|--------------------------------|---|---|
| 2:45-4 PM | Course Overview <u>Expectations of Professionalism</u> Cell Structure and Function: Cell cytoplasm | Cell Structure and Function: Cell nucleus | Cell Signalling and Cell Death | Discussion of TBL process, electronic resources, histological techniques and microscopy | <u>Nancy Clark</u> <u>PowerPoint Tutorial</u> Week in Review: <u>Quiz # 1</u> |
| 4-5 PM | | | Small Group: Case # 1 | | |

Week 2: Epithelial and Connective Tissue

| Hour | Monday 8-31 | Tuesday 9-1 | Wednesday 9-2 | Thursday 9-3 | Friday 9-4 |
|-----------|---|---|--|---|---|
| 2:45-4 PM | Cell Structure and Function: Epithelial Tissue | Cell Structure and Function: Connective Tissue | Cell Structure and Function: Bone and Cartilage I | TBL #1: Histology of Epithelial and Connective Tissue | Molecular Medicine: Blotting Techniques for clinical diagnosis |
| 4-5 PM | | | | | |

Week 3: Bone

| Hour | Monday 9-7 | Tuesday 9-8 | Wednesday 9-9 | Thursday 9-10 | Friday 9-11 |
|-----------|---------------|--|-------------------------------------|---|--|
| 2:45-4 PM | Labor Day | Cell Structure and Function: Bone and Cartilage II | Cell structure and Function: Joints | TBL #2: Histology of Bone and Cartilage | Lecture review/Student presentations and Quiz # 2 |
| 4-5 PM | | | Small Group: Case # 2 | | |

Week 4: Blood

| Hour | Monday 9-14 | Tuesday 9-15 | Wednesday 9-16 | Thursday 9-17 | Friday 9-18 |
|-----------|---|--|--|--|------------------------|
| 2:45-4 PM | Cell Structure and Function: Blood Cell Types | Cell Structure and Function: Blood Cell mechanisms of action | Cell Structure and Function: Hematopoiesis and Clinical correlates | Examination #1: Tutorial with Test-style questions (Optional) | Examination # 1 |
| 4-5 PM | | | TBL #3: Histology of Blood cells | | |

Week 5: Muscle

| Hour | Monday 9-21 | Tuesday 9-22 | Wednesday 9-23 | Thursday 9-24 | Friday 9-25 |
|-----------|--|---|--|-----------------------------|---|
| 2:45-4 PM | Cell Structure and Function: Skeletal Muscle I | Cellular Structure and Function: Skeletal Muscle II | Cell Structure and Function: Cardiac and Smooth Muscle | TBL #4: Histology of Muscle | Lecture review/Student presentations and Quiz #3 |
| 4-5 PM | | | Small group: Case #3 | | |

Week 6: Cardiovascular System

| Hour | Monday 9-28 | Tuesday 9-2 | Wednesday 9-30 | Thursday 10-1 | Friday 10-2 |
|-----------|------------------------------------|--|---|--|--|
| 2:45-4 PM | Cell Structure and Function: Heart | Cell Structure and Function: Vasculature | Cellular Mechanisms of Disease: Cardiovascular System | TBL #5: Histology of Cardiovascular System | Molecular Medicine: Translational Research |
| 4-5 PM | | | | | |

Week 7: Special Senses

| Hour | Monday 10-5 | Tuesday 10-6 | Wednesday 10-7 | Thursday 10-8 | Friday 10-9 |
|----------|---|---|--|---|--|
| 2:45-4PM | Cell Structure and Function: Visual System | Cell Structure and Function: Auditory System | Cell Structure and Function: Olfactory System | TBL #6: Histology of the Special Senses | Lecture review/Student presentations and Quiz # 4 |
| 4-5 PM | | | Small Group: Case # 4 | | |

Week 8: Nervous System

| Hour | Monday 10-12 | Tuesday 10-13 | Wednesday 10-14 | Thursday 10-15 | Friday 10-16 |
|-----------|---|---|--|--|------------------------|
| 2:45-4 PM | Cell Structure and Function: Nervous System I <i>Alston</i> | Cell Structure and Function: Nervous System II <i>Alston</i> | Cell structure and Function: Nervous System III <i>Alston</i> | Examination #2: Tutorial with Test-style questions (Optional) | Examination # 2 |
| 4-5 PM | | | TBL #7: Histology of the Nervous System | | |

Week 9: Digestive System

| Hour | Monday 10-19 | Tuesday 10-20 | Wednesday 10-21 | Thursday 10-22 | Friday 10-23 |
|-----------|---|---|---|---------------------------------------|---|
| 2:45-4 PM | Cell Structure and Function: Upper GI Tract | Cell Structure and Function: Lower GI Tract | Cell Structure and Function: Liver and Pancreas | TBL #8: Histology of Digestive System | Lecture review/Student presentations and <u>Quiz #5</u> |
| 4-5 PM | | | Large Group: Case # 5 | | |

Week 10: Respiratory System

| Hour | Monday 10-26 | Tuesday 10-27 | Wednesday 10-28 | Thursday 10-29 | Friday 10-30 |
|-----------|---|---|--|--|---|
| 2:45-4 PM | Cell Structure and Function: Upper Respiratory System | Cell Structure and Function: Lower Respiratory System | Cellular Mechanisms of Disease: Respiratory System | Molecular Medicine: High throughput Methods Part I | Molecular Medicine: High throughput Methods Part II |
| 4-5 PM | | | TBL #9: Histology of the Respiratory System | | |

Week 11: Urinary System

| Hour | Monday 11-2 | Tuesday 11-3 | Wednesday 11-4 | Thursday 11-5 | Friday 11-6 |
|--------------|---------------------------------------|--|--|--------------------------------------|--|
| 2:45-3:30 PM | Cell Structure and Function: Kidney I | Cell Structure and Function: Kidney II | Cell Structure and Function: Lower Urinary Tract | TBL #10: Histology of Urinary System | Lecture review/Student presentations and Quiz # 6 |
| 3:45-5 PM | | | Large Group: Case #6 | | |

Week 12: Endocrine System

| Hour | Monday 11-9 | Tuesday 11-10 | Wednesday 11-11 | Thursday 11-12 | Friday 11-13 |
|-----------|---|--|---------------------------|--|-----------------|
| 2:45-4 PM | Cell Structure and Function: Endocrine System I | Cell Structure and Function: Endocrine System II | Veteran's Day No Class | Examination #3 Tutorial with questions (Optional) | Examination # 3 |
| 4-5 PM | Large Group: Case #7 | TBL #11: Histology of Endocrine System | | | |

Week 13: Reproductive System

| Hour | Monday 11-16 | Tuesday 11-17 | Wednesday 11-18 | Thursday 11-19 | Friday 11-20 |
|------------------|---|---|---|---|---|
| 2:45-4 PM | Cell Structure and Function: Male Reproductive System | Cell Structure and Function: Female Reproductive System I | Cell Structure and Function: Lymphatic System I | Cell Structure and Function: Lymphatic System II | Lecture review/Student presentations and <u>Quiz # 7</u> |
| 4-5 PM | | | Presentations | TBL #12: Histology of Reproductive and Lymphatic System | |

Week 14: Lymphatic and Integumentary System

| Hour | Monday 11-23 | Tuesday 11-24 | Wednesday 11-25 | Thursday 11-26 | Friday 11-27 |
|------------------|----------------------|---|--|----------------------|----------------------|
| 2:45-4 PM | Integumentary System | Infectious disease | NBME Review and Final Tutorial <u>Lecture in a.m.</u> | Thanksgiving Holiday | Thanksgiving Holiday |
| 4-5 PM | Presentations | TBL #13: Histology Integumentary System | | | |

Week 15: Final Examinations

| Hour | Monday 11-30 | Tuesday 12-1 | Wednesday 12-2 | Thursday 12-3 | Friday 12-4 |
|------------|-----------------|-----------------|-------------------|-----------------------|----------------|
| 8:15-11:00 | <i>No Class</i> | <i>No Class</i> | <i>No Class</i> | Examination #4 | NBME |