

BIO 514. Clinical Anatomy for Occupational Therapists. 4 Credits
Fall 2016. First Block
James Madison University

Instructor: Dr. Mark Gabriele
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Office Hours: W 10:00-12:00
F 11:15-12:15

Section 0101: Lecture: TTh 9:30-12:00 Engineering/Geosciences 2202
Recitation F 9:05-11:05 Engineering/Geosciences 2202
Section 0102: Lab: TTh 1:00-4:30 HHS 3008

Required Texts: *Essential Clinical Anatomy*; Moore and Agur (Fifth Edition)
Grant's Dissector; Tank (Fifteenth Edition)
Atlas of Human Anatomy; Netter (Sixth Edition)

NATURE OF COURSE CONTENT: This course offers an in depth study of the structure of the musculoskeletal and peripheral nervous systems of the human body. Specific structural and neural pathologies will be examined in regards to impact on occupational performance. Laboratory experiences involving cadaver dissection, skeletal material, models and audiovisual technology will be utilized. *Prerequisite: Admission to the Occupational Therapy Program.*

METHOD OF EVALUATION: Three exams are scheduled for both lecture and laboratory. All exams are considered to be comprehensive in nature in that we will apply principles throughout the semester. In addition, 10% of your final grade will be based on quality of laboratory dissection and participation in weekly small group case studies. Final letter grades will be assigned according to the defined OT grading scale (93-100% = A, 90-92% = A-, 86-89% = B+, 80-85% = B, 70-79% = C, <70% = F).

Lecture Exam 1	15%	Lab Exam 1	15%
Lecture Exam 2	15%	Lab Exam 2	15%
Lecture Exam 3	15%	Lab Exam 3	15%
Dissection/Case Studies/Group Presentations			10%

***Graduate Specific Course Components:**

1. Graduate lecture exams include additional graduate essays that focus on clinical anatomical conditions that directly relate to Occupational Therapy and Activities of Daily Living (ADLs).
2. Graduate students will perform additional detailed dissections (e.g. suboccipital triangle, select joints, inner ear, etc.).
3. Graduate students will head classroom discussions on weekly case studies. Each graduate student will be expected to lead problem-solving sessions by presenting an in depth introduction covering the relevant structure and function. Graduate students will be expected to research and present recent findings in the occupational therapy literature that is relevant to the current case study. Case study discussion should focus on specific applications to the field of occupational therapy.

HONOR SYSTEM: All students are expected to be familiar with and to abide by the University Honor Code at JMU. A complete description of the University Honor System can be found in the JMU Student Handbook or here: <http://www.jmu.edu/honor/code.shtml>

INTELLECTUAL PROPERTY: All exams, handouts, and materials for this course, including those posted on Blackboard and faculty and course websites, are intellectual property. Therefore, dissemination of any of these items, in whole or in part, through any extracurricular agency including other websites is a violation of the honor code and will be punished as such.

ATTENDANCE: Attendance is absolutely critical to the successful completion of this course. You are expected to attend ALL lecture, laboratory, and small group sessions. Officially excused absences from laboratory must be approved **prior** to the absence. Make-ups for **lecture and laboratory exams** will be given for **officially excused absences ONLY** (official school business, illness with M.D. excuse, death in the family). If you are unable to attend a lecture exam, you must contact me directly **prior** to the scheduled exam time.

ADDING/DROPPING CLASSES:

Policies for adding and dropping courses can be found here: <http://www.jmu.edu/syllabus>

Requests to withdrawal after the university stated deadlines are strictly at the discretion of the instructor. **In extraordinary circumstances only**, the instructor may choose to use the WP/WF option for students unable to complete the course. WP will be assigned for a course average $\geq 70\%$; WF will be assigned for averages $< 70\%$.

ACADEMIC HONESTY:

Policies for academic honesty and plagiarism can be found here: <http://www.jmu.edu/syllabus>

OFFICE OF DISABILITY SERVICES:

Policies for disability accommodations can be found here: <http://www.jmu.edu/syllabus>

It is the student's responsibility to provide documentation from the Office of Disability Services to the lecture instructor to ensure that appropriate arrangements are made.

INCLEMENT WEATHER POLICIES

Policies for inclement weather can be found here: <http://www.jmu.edu/syllabus>

RELIGIOUS OBSERVATION ACCOMMODATIONS

Policies for religious observation accommodations can be found here: <http://www.jmu.edu/syllabus>

GOALS OF THE COURSE:

- Goal 1: To obtain a basic understanding of the morphology of the human body and correlate it with general function.**
- Goal 2: To acquire and demonstrate gross dissection techniques, as well as the ability to make observations and decisions to identify pertinent structures.**
- Goal 3: To become aware of normal variations in the human body.**
- Goal 4: To relate gross anatomy to clinical situations.**
- Goal 5: To correlate sectional anatomy with current imaging techniques (CT, MRI, radiology).**
- Goal 6: To introduce basic medical terminology.**
- Goal 7: To apply problem-solving skills to clinical situations based on course content (case studies/presentations).**

Assignments and Due Dates

BIO 514: Tentative Lecture Schedule

WEEK 1:	Aug 30 th Sept 1 st	Introduction, review of vert column, spinal nerves; back muscles (Introduction pp. 1-42; Chapter 4 pp. 265-307) Finish back muscles; thoracic and abdominal body wall m. (Chapter 2 pp. 111-24)
WEEK 2:	Sept 6 th Sept 8 th	Start Lower Limb; Hip and Thigh (Chapter 5; pp. 309-348) Thigh (cont.); Leg and Foot (Chapter 5; pp. 348-369)
WEEK 3:	Sept 13 th Sept 15 th	Finish Leg and Foot; Joints of Lower Limb (Chapter 5; pp. 369-395) Start Upper Limb; Pectoral Region; Back and Shoulder (Chapter 6 pp. 397-419)
WEEK 4:	Sept 20 th Sept 22 nd	Axilla and Brachial Plexus (Chapter 6; pp. 419-431) Arm and Cubital Fossa; Forearm Flexors (Chapter 6; pp. 432-442)
WEEK 5:	Sept 27 th Sept 29 th	Forearm Extensors, Hand, Joints of Upper Limb (Chapter 6; pp. 442-484) Start Head and Neck; Intro skull and Cranial Nerves (Chapter 7 pp. 485-492; Chapter 9 pp. 627-656)
WEEK 6:	Oct 4 th Oct 6 th	Triangles of Neck, Face, and Temporal Region (Chapter 7 pp. 492-500, 537-544; Chapter 8 pp. 581-598) Special Senses (Chapter 7 pp. 501-536; 545-579)
WEEK 7:	Oct 11 th Oct 13 th	Special Senses (cont.); Pharynx and Larynx (Chapter 8; pp. 599-626) Review for Final

Assignments and Due Dates

BIO 514: Tentative Laboratory/Recitation Schedule

WEEK 1:	Aug 30 th Sept 1 st Sept 2 nd	Intro/Lab Safety (GD pp. 1-4), Begin Vertebral Column and Muscles of the Back (GD pp. 5-11) Continue Vertebral Column and Muscles of the Back (GD pp. 5-11) Finish Back Muscles; Vert Canal and S.C.; Prosected Hypaxial mm. (GD pp. 12-19); Suboccipital Triangle; Case Study 1
WEEK 2:	Sept 6 th Sept 8 th Sept 9 th	Superficial Lower Limb Dissection; Start Gluteal and Post. Thigh (GD pp. 165-168, 176-184) Ant. & Medial Thigh; Ant. & Lateral Leg (GD pp. 169-176, 184-185, 190-193) Complete previous dissections; Case Study 2
WEEK 3:	Sept 13 th Sept 15 th Sept 16 th	Posterior Leg, Sole of Foot; LL joint; REVIEW (GD pp. 185-189, 194-198) EXAM 1 – LECTURE AND LAB Shoulder and superficial upper limb dissection (GD pp. 21-24); Case Study 3
WEEK 4:	Sept 20 th Sept 22 nd Sept 23 rd	Back and Shoulder; Axilla; Prosected Pectoral Region (GD pp. 24-34) Arm and Cubital Fossa; Forearm Flexors (GD pp. 34-46) Complete previous dissections; Case Study 4
WEEK 5:	Sept 27 th Sept 29 th Sept 30 th	Forearm Extensors and Hand (GD pp. 46-57) EXAM 2 – LECTURE AND LAB Skull (GD pp. 219-221); Case Study 5
WEEK 6:	Oct 4 th Oct 6 th Oct 7 th	Superficial neck dissection, Anterior & Posterior Triangles of Neck, Parotid Region, Temporal Region (GD pp. 205-218, 226-228, 230-235) Skull, Face, Scalp, Interior Skull, Brain, and Cranial Fossa (GD pp. 219-225, 228-229, 235-245) Complete previous dissections; Case Study 6
WEEK 7:	Oct 11 th Oct 13 th Oct 14 th	Continue Gross Anatomy of the Brain, Orbit, Prevertebral Region, Pharynx, Nose and Nasal Cavities, and Larynx (GD pp. 245-268) EXAM 3 – LECTURE AND LAB FINAL FINAL OT GROUP PRESENTATIONS