BIO 414/514. Clinical Anatomy for Occupational Therapists. 4 Credits
Summer 2007. 7 weeks
James Madison University

Instructor: Dr. Mark Gabriele
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Office Hours: TTh 10:45 -1:15; HHS 3101D

Sections:	Lecture:	TTh	9:00-10:45	HHS 2207
	Lab:	M	11:00-1:30	HHS 3008
		TTh	2:00-5:00	HHS 3008

Required Texts: *Essential Clinical Anatomy*; Moore and Agur (Third Edition)
Grant's Dissector; Tank (Thirteenth Edition)
Atlas of Human Anatomy; Netter (Fourth Edition)
-or- *Grant's Atlas of Anatomy*; Agur and Lee (Tenth Edition or more recent)

Course Description: 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.*

GRADING POLICY: 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 on a 10-point numerical basis (*i.e.* 100-90% = A; 89-80% = B; etc).

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/Presentations/Tutorials*			10%

*Graduate Course Components (514 students):

1. To perform additional detailed dissections (suboccipital triangle, select joints, inner ear, etc.) that are *optional* for students enrolled at the 400-level.

2. To head classroom discussions on weekly case studies. Each student will be expected to lead *at least* one of the 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.

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.

OFFICE OF DISABILITY SERVICES: Mission statement: James Madison University is committed to the full and total inclusion of all individuals and to the principle of individual rights and responsibilities. To this end, policies and procedures will ensure that persons with a disability will not, on the basis of that disability, be denied full and equal access to and enjoyment of academic and co-curricular programs or activities or otherwise be subjected to discrimination under programs or activities offered by the University. This policy was developed to ensure equal access at the University for individuals with disabilities and to ensure full compliance with all pertinent federal and state legislation.

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.

COURSE OBJECTIVES:

Objective 1: To obtain a basic understanding of the morphology of the human body and correlate it with general function.

Objective 2: To acquire and demonstrate gross dissection techniques, as well as the ability to make observations and decisions to identify pertinent structures.

Objective 3: To become aware of normal variations in the human body.

Objective 4: To relate gross anatomy to clinical situations.

Objective 5: To correlate sectional anatomy with current imaging techniques (CT, MRI, radiology).

Objective 6: To introduce basic medical terminology.

Objective 7: To apply problem-solving skills to clinical situations based on course content (case studies/presentations).

BIO 414/514: Tentative Lecture/Small Group Schedule

WEEK 1:	June 12th	Introduction, review of vert column, spinal nerves; back muscles (Chapters 1 & 4)
	June 14th	Finish back muscles; thoracic and abdominal body wall m. (Chapter 2 pp. 117-29)
WEEK 2:	June 19th	Start Lower Limb; Hip and Thigh (Chapter 5; pp. 313-356); Case Study 1
	June 21st	Thigh (cont.); Leg and Foot (Chapter 5; pp. 356-374)
WEEK 3:	June 26th	Finish Leg and Foot; Joints of Lower Limb (Chapter 5; pp. 375-399); Case Study 2
	June 28th	Start Upper Limb; Pectoral Region; Back and Shoulder (Chapter 6 pp. 401-423)
WEEK 4:	July 3rd	Axilla and Brachial Plexus (Chapter 6; pp. 423-435); Case Study 3
	July 5th	Arm and Cubital Fossa; Forearm Flexors (Chapter 6; pp. 442-447)
WEEK 5:	July 10th	Forearm Extensors, Hand, Joints of Upper Limb (Chapter 6; pp. 447-489); CS 4
	July 12th	Start Head and Neck; Intro skull and Cranial Nerves (Chapter 7 pp. 491-498; Chapter 9 pp. 633-660)
WEEK 6:	July 17th	Triangles of Neck, Face, and Temporal Region (Chapter 7 pp. 498-507, 539-547; Chapter 8 pp. 583-602); Case Study 5
	July 19th	Special Senses (Chapter 7 pp. 507-538; 547-582)
WEEK 7:	July 24th	Special Senses (cont.); Pharynx and Larynx (Chapter 8; pp. 603-632); CS 6
	July 26th	Review for Final all morning (in lecture and laboratory)

BIO 414/514: Tentative Laboratory Schedule

WEEK 1:	June 11th	Intro/Lab Safety (GD pp. 1-3)
	June 12th	Vertebral Column and Muscles of the Back (GD pp. 4-10)
	June 14th	Finish back muscles; vert canal and s.c.; prosected hypaxial mm. (GD pp. 11-14)
WEEK 2:	June 18th	Complete previous dissections, suboccipital triangle and superficial LL dissection
	June 19th	Superficial Lower Limb Dissection; Start Gluteal and Post. Thigh (GD pp. 122-124, 130-136)
	June 21st	Ant. & Medial Thigh; Ant. & Lateral Leg (GD pp. 125-130; 136-139)
WEEK 3:	June 25th	Complete previous dissections
	June 26th	Posterior Leg, Sole of Foot; LL joint; REVIEW (GD pp. 140-144)
	June 28th	**EXAM 1 – LECTURE AND LAB**
WEEK 4:	July 2nd	Shoulder and superficial upper limb dissection (GD pp. 15-17)
	July 3rd	Back and Shoulder; Axilla; Prosected Pectoral Region (GD pp. 17-22)
	July 5th	Arm and Cubital Fossa; Forearm Flexors (GD pp. 22-29)
WEEK 5:	July 9th	Complete previous dissections
	July 10th	Forearm Extensors and Hand (GD pp. 30-36)
	July 12th	**EXAM 2 – LECTURE AND LAB**
WEEK 6:	July 16th	Review skull; superficial neck dissection
	July 17th	Anterior & Posterior Triangles of Neck (GD pp. 174-189)
	July 19th	Face, Skull, and Cranial Fossa (GD pp. 150-168)
WEEK 7:	July 23rd	FINAL OT GROUP PRESENTATIONS (not in the laboratory)
	July 24th	Brain, Prevertebral Region, Pharynx, and Larynx (GD pp. 189-200)
	July 26th	**EXAM 3 – LECTURE AND LAB FINAL**