

Syllabus

Trimester: Spring 2012
Course Number & Name: CP 4543 Physical Examination & Diagnosis – Lecture & Lab
Contact Hours

Lecture: 4 hours

Monday 10:00 I-104
Tuesday 11:00 I-104
Thursday 2:00 I-104
Friday 10:00 I-104

Lab: 3 hours

Wednesday 2:00 L-201
Thursday 10:00 LB-3
Friday 11:00 L-201

Credit Hours: 5.5

Course Description:

This course incorporates didactic presentation and practical application of the cognitive and psychomotor skills necessary for the competent and thorough history and physical examination of a patient using standard instrumentation and procedures. This course focuses on utilization of anatomy, physiology and pathology to arrive at proper diagnosis based on appropriate evident and sound clinical judgment. This course covers HEENT and visceral organs of the chest and abdomen.

Course Pre-requisites: GE, GU, Endocrine & Neurophysiology; Systems Pathology I

Co-requisite: Systems Pathology II, Orthopedics I

Contact Information:

Course Professor: Lecture Jeffrey H. Weiss, D.C.
Labs Jeffrey H. Weiss, D.C.
Brad Koby, D.C.

Office: Iwama Building Suite 212

Office Hours: Open door policy – If I am available I will meet with you

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CCE Competencies:

The Council on Chiropractic Education has set competencies that are required for a graduate of any Doctor of Chiropractic Program, which includes the following but not limited to:

History Taking

1. Record Keeping
2. Physical Examination
3. Neuromusculoskeletal Examination
4. Diagnosis
5. Case Management

Goal/Rationale of the Course:

1. To establish a solid foundation for clinical competency of physical examination.
2. To establish a strong understanding of anatomic, physiologic, and pathologic knowledge related to physical examination and diagnosis.
3. To establish a good basis for future clinicians.
4. To be an effective diagnostician for both allopathic and non-allopathic conditions.

Learning Outcomes:

1. Demonstrate a cognitive knowledge and understanding of the process of history taking based on appropriate clinical judgment. The student should be able to understand the elements of history taking, and continue to work on communication skills through exercises.
2. The student should be able to understand and appreciate the components of the mental status examination and recognize and abnormal findings
3. The student should be able to understand and recognize the clinical significance of vital signs and the common disease processes.
4. The student should be able to understand, perform and interpret normal and abnormal findings of the neuromusculoskeletal examination
5. The student should be able to understand basic skin lesions and the conditions associated with each
6. The student should be able to understand eye conditions in both external eyes and retinal structures using ophthalmoscope, and differentiate from normal to pathological findings.
7. The student should be able to understand the normal anatomy and abnormal conditions of the external and middle ear through a variety of examination techniques and procedures.
8. The student should be able to understand the normal anatomy and abnormal conditions of the oral and nasal regions through a variety of examination techniques and procedures.
9. The student should be able to examine the thorax for signs of cardiopulmonary illness through the use of a variety of examination procedures and interpret both normal and abnormal findings.
10. The student should be able to examine the abdominal region for signs of abdominal illness through the use of a variety of examination procedures and interpret both normal and abnormal findings.
11. The student should be able to perform and appreciate the complexities examination procedures specific to the male patient.

Learning Objectives:

At conclusion of this course, a successful student should be able to:

1. Apply previously acquired anatomic, physiologic and pathological knowledge to the process of differential diagnosis.
2. Perform a focused history which incorporates chief complaint, history of present illness, past medical history, family history, personal and social history, and review of systems
3. Perform a mental status examination and interpret any abnormal findings
4. Obtain vital signs
5. Interpret normal and abnormal findings - vital signs
6. Perform a basic neurological examination that includes deep tendon reflexes, sensory examination, muscle strength and cerebellar examination
7. Interpret normal and abnormal findings of skin lesions
8. Interpret the normal and abnormal findings – neurological examination
9. Perform a complete eye examination that includes inspection, palpation, and instrumentation (cardinal fields of gaze, accommodation, central and peripheral fields, corneal light reflex, direct light reflex, consensual light reflex and fundoscopic examination)
10. Interpret normal and abnormal findings – eye examination

11. Perform a complete ear examination that includes inspection, palpation and instrumentation (auditory acuity, Weber's test, Rinne's test and otoscopic examination)
12. Interpret normal and abnormal findings – ear examination
13. Perform a complete nasal / sinus examination that includes inspection, palpation and instrumentation (nasoscopic examination and transillumination of sinus)
14. Interpret normal and abnormal findings – nasal examination
15. Perform a complete oral examination that includes inspection, palpation and instrumentation
16. Interpret normal and abnormal findings – oral examination
17. Perform a lymph node examination to include the cervical spine, axillary and inguinal regions
18. Interpret normal and abnormal findings – lymph node examination
19. Perform a complete cranial nerve examination
20. Interpret normal and abnormal findings – cranial nerve examination
21. Perform a complete lung examination to include inspection, palpation (tactile fremitus and respiratory excursion), percussion and auscultation of the lungs
22. Interpret normal and abnormal findings – lung examination
23. Perform a complete cardiac examination to include inspection, palpation (thrill), percussion and auscultation
24. Interpret normal and abnormal findings – cardiac examination
25. Perform a complete abdominal examination to include inspection, auscultation, percussion and palpation
26. Interpret normal and abnormal findings – abdominal examination
27. Interpret normal and abnormal findings – male genitalia examination

Course Materials:

Required Readings/Texts:

1. Mosby's Guide to Physical Examination, 7th Edition, Seidel, Ball, Dains, Flynn, Soloman and Stewart; Elsevier 2011
2. Printed Notes

Suggested Readings:

1. Ferri's Clinical Advisor 2010, Fred F. Ferri, M.D., F.A.C.P.;
- Note: This text will be used in subsequent courses – Internal Diagnosis I and II

Scholar 360 Address:

<https://edvance360.com/txchiro/>

Other Materials:

Required Physical Exam Equipment

1. Sphygmomanometer
2. Thermometer
3. Stethoscope
4. Watch with second-hand or digital watch
5. Tuning fork (128 & 512 Hz)
6. Tape measure
7. Tongue depressors
8. Welch Allyn Diagnostic Kit to include pan-optic ophthalmoscope, otoscope, nasoscope, transilluminator, disposable specula

Course Content and Outline:

Physical Exam and Diagnosis I—Schedule by Week

- Week 1 Jan 9 – 13 History, Vitals and Mental Status
Chapter 1, 3 and 4
- Week 2 Jan 16 – 20 **Lab Practical #1** (Vital Signs) & Neurological Exam
Chapter 22
- Week 3 Jan 23 – 27 Neurological Exam, Skin, Head and Neck
Chapter 8, 9 and 10
- Week 4 Jan 30 – Feb 3 Skin, Head and Neck, Eye
Chapter 11
Written Midterm #1 (Vitals & Neurological Exam)
- Week 5 Feb 6 – 10 Ear
Chapter 12
Lab Practical #2 (Neurological Exam)
- Week 6 Feb 13 – 17 Nose and Throat
Chapter 12
- Week 7 Feb 20 – 24 Respiratory System
Written Midterm #2 - HEENT
- Week 8 Feb 27 – Mar 2 Respiratory System
Chapter 13
Lab Practical #3 - HEENT
- Week 9 Mar 5 – 9 Respiratory / Cardiovascular System
Chapter 13 and 14
- **SPRING BREAK Mar 12 – 16** **No School**
- Week 10 Mar 19 – 23 Cardiovascular System
Chapter 14
- Week 11 Mar 26 – 30 **Written Midterm #3** & Abdominal Visceral System
Chapter 17
- Week 12 April 2 – 6 Abdominal Visceral System
Chapter 17
- Week 13 April 9 – 13 Male Genitalia
Chapter 19
Lab Finals
Written Final (Comprehensive)
Lab Practical #4 – Cardiopulmonary / Abdominal Exam
- Week 14 & 15 April 17 – 25 **Lab Practical – Whole Body**
Finals

It is imperative that students **read and preview the materials to be covered in advance** so that the lectures and labs can progress on time. Any missed lectures and labs are students' responsibility and not repeated by the instructor, but "reasonable" questions regarding the materials will be answered during lectures, labs, and/or office hours.

Statement on the Assessment Process and Measurements:

1. Three midterm written exam and one comprehensive written final exam will be given. These written exams can be multiple-choice, short answer, matching, true/false, fill in the blank and short answer questions.
2. Five practical examinations will be given for the lab portion of the course. These exams are designed to assess the student-doctor's application of examination procedures relative to his/her diagnostic expertise.
3. No exam will be given early to individuals who are unable to take it as scheduled. Failure to take any exam will result in an incomplete grade (I). Makeup exams will be administered according to the college's makeup protocol. All makeup exams are essays. All excuses must be provided with sufficient evidence.
4. Post-exam review appointments must be scheduled within 2 weeks after the grades are posted. No exam will be reviewed for a grade change after the 2-week grace period.

Grade Method and Scale:

Explanation of Evaluation:

GRADING SYSTEM:

Lecture: 3 Midterm written exams (100 points each – total 300)
1 Final written exam (100 points)
Total points – 400 (50% of your grade)

Labs: **Practicum #1** (50 points) – vital signs
Practicum #2 (50 points) – neurological examination
Practicum #3 (50 points) – head, eyes, ears, nose and throat examination
Practicum #4 (50 points) – cardiopulmonary and abdominal examination
Practicum #5 (100 points) – whole body examination
Total points – 300 (37.5% of your grade)
Note: Practical's are comprehensive

Quizzes: There will be unannounced quizzes throughout the course in both lecture and lab.
Total points (100 points) – (12.5% of your grade)

There will be no make-up for missed quizzes.

GRADING SCALE:

| | | |
|-------------|---|---|
| 89.5 – 100 | = | A |
| 79.5 – 89.4 | = | B |
| 69.5 – 79.4 | = | C |
| Below 69.4 | = | F |

Teaching Philosophy:

In selecting instructional techniques I favor those that build upon students' own experience. Thus, inquiry-based techniques, in which students are encouraged to test their preconceived ideas as well as their newly formed hypotheses, are among my favorites. Students are expected to take an active part in class; they discuss and share their points of views; they debate and are ready with their opinions. I try to create an atmosphere of trust where students feel comfortable taking part in the discussion. I facilitate by asking questions, and I try to get everyone involved in the answers. At the same time, I usually have information

that I want to get across to the students; therefore, I expect them to listen and to utilize my expertise. Nevertheless, every class discussion calls for their involvement, and knowing this fact spurs them to think through their ideas before coming to class. In addition, I want my students to learn from one another, gaining confidence as they share. I praise my students for having something to say, and I am aware that their willingness depends upon my keeping a comfortable classroom environment.

Student Responsibilities:

Participation:

Although there is no participation grade for the lecture portion of this course, student's active role in discussion and questions are strongly recommended. You will be expected to use the entire hour to practice physical examination procedures. Any student deemed not to be participating in lab will be considered and counted absent.

Daily Responsibilities:

It is strongly recommended that you study on a regular and consistent basis. A large amount of information will be covered in this course. Cramming for examinations and practical's will I do not recommend that you procrastinate to study for an exam.

LAB PROTOCOL:

1. Professionalism and good mannerism is expected from everyone. Any unprofessional behavior will not be tolerated and may lead to expulsion from the individual class or the course.
2. Always come to lab on time, and be prepared with diagnostic kits.
3. Students who do not wear appropriate attire to allow access to body sites utilized for lab exams will be counted as absent
4. Students who are viewed as not participating during lab will be counted as absent
5. During the course of the semester there will be timed drills for you to improve on the speed of your examination. During this time I will also quiz few students on their performance. The student will be responsible for patient instructions, physical examination procedure and clinical presentation of a positive examination finding.

CLASSROOM POLICIES

1. No food and/or beverages with the exception of clear fluids.
2. No chewing tobacco will be allowed.
3. Cellular phones & pagers should be turned off or put on silent mode.
4. No talking during class.
5. If you arrive after attendance has been taken you will be counted as absent
6. During the lecture hour, try not to interrupt the class and/or my lecture by walking out. If you have to leave and use the restroom do so quietly.
7. No surfing the web during class. Any student found to be surfing the web will be asked to leave the class, counted as absent. In addition, you will lose the privilege of using your laptop computer during class

Essential Policy Information:

Attendance (See Student Handbook)

Regular and punctual attendance at all scheduled classes and laboratories is expected. A student is subject to academic penalty if absences exceed ten percent. Absences exceeding twenty percent subject a student to dismissal from a course. Three (3) incidences of tardiness may constitute an absence. If justifiable cause can be shown for the absenteeism, the student may be permitted to make up missed assignments and maintain enrollment in the class. The hours from these periods will be added to the student's clinic requirements.

Examinations (See Student Handbook)

Students must notify faculty before missing any examination. Students are expected to take all examinations at their scheduled times. If an examination is missed for good and sufficient reason and the student has notified the faculty in advance, a make-up examination may be given subject to a fee of \$40.00 for each written examination and a minimum of \$75.00 for each practical examination. All missed examinations must be made up prior to final examinations. Final exams are to be taken at the scheduled time. If an examination is missed for good and sufficient reason and the student notified the faculty in advance, a make-up examination may be given subject to a fee of \$40.00 for the written and a minimum of \$75.00 for the practical. Make-up examinations must be completed with the first week of the next trimester.

Incompletes (See Student Handbook)

Course assignments and examinations must be completed prior to the final examination in that course. Assignments and examinations not completed receive a grade of zero.

Cellular Phones and Pagers (See Student Handbook)

Electronic communication devices are to be turned off or placed in silent mode when entering the classroom. This will benefit the learning environment for you, your fellow classmates, and instructors.

Guidance and Counseling (Student Handbook)

The Guidance and Counseling Department is prepared to confidentially assist students, faculty, and staff with personal, relationship, and academic mental health-related issues. With appropriate documentation, the Director of Guidance and Counseling coordinates academic-related special needs with instructors.

Note: Other important policies can be obtained from the current edition of the Student Handbook.