

**Introduction to Psychopharmacology II  
(CECP 5830 and HSV 6350)  
Western Michigan University  
Grand Rapids East Beltline Campus  
Spring, 2012**

**Course Syllabus**

**Instructor:** Craig Vander Maas, Psy.D., M.S. (Clinical Psychopharmacology)  
Licensed Psychologist  
Licensed Professional Counselor  
**Phone:** (616) 459-2110  
**Fax:** (616) 459-2110  
**E-Mail:** [cvandermaas@ameritech.net](mailto:cvandermaas@ameritech.net)

**Time Schedule:** Friday, January 27 (3:00-10:00 pm)  
Saturday, January 28 (8:00-5:00 pm)

**Credit Hours:** 1

**Required Text:** none

**Recommended Texts:**

General Pharmacology

Dipiro, J., Talbert, R., Yee, G., Matzke, G., Wells, B., & Posey, L. (2002). *Pharmacotherapy: A Pathophysiologic Approach*, 5th Ed. McGraw-Hill (ISBN 0-07-136361-0)

Brunton, L, Lazo, J., & Parker, K. (2005). *Goodman & Gilman's The Pharmacological Basis of Therapeutics*, 7th Ed. McGraw-Hill (ISBN 0071422803)

Psychopharmacology

Meyer, J. and Quenzer, L. (2005). *Psychopharmacology: Drugs, the Brain, and Behavior*. Sunderland, MA: Sinauer Associates, Inc. (ISBN 0-87893-534-7)

Stahl, S. (2000). *Essential Psychopharmacology: Neuroscientific Basis and Practical Applications*, 2nd Ed. Cambridge University Press (0-521-64154-3)

Julien, R. (2001). *A Primer of Drug Action*. Henry Holt & Co. (ISBN 0-8050-7158-X)

**Preston, J., O'Neal, J. & Talaga, M. (2005). *Handbook of Clinical Psychopharmacology for Therapists*, 4th Ed. New Harbinger (ISBN 1-57224-399-6)**

## Prescribing

Physician's Desk Reference

Saunders Nursing Drug Handbook

Stahl, S. (2005). *Essential Psychopharmacology: the Prescriber's Guide*. Cambridge. (ISBN 0-521-01169-8)

Pavuluri, M. & Janicak, P. (2004). *Handbook of Psychopharmacotherapy: A Life Span Approach*. Lippincott Williams & Wilkins (ISBN 0-7817-5356-2)

### **Course Description:**

This is an introductory course for counselors and therapists on the subject of pharmacotherapy, which has become a progressively dominant modality in treating psychiatric and psychological disorders. Psychotherapists and counselors typically spend significantly more time with clients than do prescribing physicians, so they have an important adjunctive role to play for the patient who is being prescribed psychotropic medications.

“Many non-medical psychotherapists are or will become strongly and rather directly involved in medication treatment. In some settings psychologists and social workers assume a major role in monitoring client responses to psychotropic medications. As primary therapists, these practitioners are in most frequent contact with clients and are in the best position to observe symptomatic improvement, side effect problems, and issues involving medication compliance” (Preston, O’Neal & Talaga, 2005).

This course will explore:

- Various known neurotransmitters
- Hormones and the endocrine system
- Various neurological disorders and pharmacologic treatments
- Various pain disorders and pain medications
- Somatoform disorders
- Various medical disorders that have significant psychological association
- Eating disorders
- Various sexual disorders and pharmacological treatments
- Sleep disorders and pharmacological treatments
- ADHD and other childhood disorders
- Mechanisms of action for various psychotropic medications

### **Course Objectives:**

1. Gain understanding about behavioral effects of neurotransmitters and hormones.
2. Gain increased understanding about various disorders for which pharmacological treatments are given.
3. Gain basic understanding about various pharmacological interventions.

**Class Format:**

The class will be a combination of PowerPoint presentations, videos, and class discussions.

**Evaluation Criteria:**

Attendance is required for the entire scheduled class time.

The course grade will be based on:

- class participation
- open book/notes final examination

*You are responsible for making yourself aware of and understanding the policies and procedures in the Undergraduate and Graduate Catalogs that pertain to Academic Honesty. These policies include cheating, fabrication, falsification and forgery, multiple submission, plagiarism, complicity and computer misuse. [The policies can be found at [www.wmich.edu/catalog](http://www.wmich.edu/catalog) under Academic Policies, Student Rights and Responsibilities.] If there is reason to believe you have been involved in academic dishonesty, you will be referred to the Office of Student Conduct. You will be given the opportunity to review the charge(s). If you believe you are not responsible, you will have the opportunity for a hearing. You should consult with me if you are uncertain about an issue of academic honesty prior to the submission of an assignment or test.*

**“Accommodations:** All students requesting accommodations are encouraged to contact the professor to schedule an appointment within the first two weeks of the semester. Students with disabilities are required to present documentation of disability with a letter indicating required accommodations from Disabled Student Resources & Services to the professor at the time of the scheduled appointment. Disabled Student Resources and Services can be contacted through Ms. Beth DenHartigh at 387-2116 or [beth.denhartigh@wmich.edu](mailto:beth.denhartigh@wmich.edu). I look forward to working with all students with disabilities to make this class an enjoyable learning experience.”

## Tentative Schedule

### **Friday:**

3:00-4:30 pm

#### **I. Neurotransmitters and Hormones**

- \* Introductions
- \* Review of Syllabus
- \* Neurotransmitters
- \* The Endocrine System

4:30-4:45 Break

4:45-6:00 pm

#### **II Disorders of Childhood**

- ADHD
  - Diagnosing ADHD
  - Treatment of ADHD
- Other disorders of childhood
- Impulse Control disorders
- Autism

6:00-7:00 pm

Dinner Break

7:00-8:30 pm

#### **III. Disorders of Old Age**

- Neuropsychology
- Dementia (Alzheimer's Disease)

8:30-8:45 Break

- Parkinson's Disease
- Huntington's Disease
- Non-Degenerative Dementias

**Saturday:**

8:00-9:30 am

**IV. Other Neurological Disorders**

- Seizure Disorders
- ALS, Multiple Sclerosis
- Traumatic Brain Injury

9:30-9:45 am Break

9:45-11:45 am

**V. Psychophysiological Disorders**

- Somatoform Disorders
- Headache
- Fibromyalgia
- Irritable Bowel Syndrome
- Back Pain
- Neuropathic Pain

11:45-12:45 Lunch

12:45-2:30 pm

**VI. Pain**

- Chronic Pain
- Role of Stress
- Behavioral Medicine
- Personality Styles
- Pain Medications

2:30-2:45pm Break

2:45-5:00 pm **Wrap up and Final Exam**