

# PSYCHOPHARMACOLOGY (MSCP)

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## MSCP 2--. MSCP-UPPER DIVISION. (1-10 Credits)

Graduate Level Coursework in Psychopharmacology

**Level:** Undergraduate

**Prerequisite(s):** None

**Corequisite(s):** None

**Restrictions:** None

**Primary grade mode:** Transfer

**Schedule type(s):** Lecture

**Area(s) of Inquiry:** None

## MSCP 201. PHYSIOLOGY & PATHOPHYSIOLOGY I. (3 Credits)

This course is a study of human physiology and the physiological changes that are the cause or result of pathologic processes. The course builds upon and expands core knowledge of human anatomy, physiology, and biochemistry as it relates to the loss of homeostasis. The format for the course will primarily consist of asynchronous lectures with individual active learning activities and synchronous case-based discussions which focus on a more in-depth, interactive-learning format.

**Level:** Graduate

**Prerequisite(s):** None

**Corequisite(s):** None

**Restrictions:**

Enrollment is limited to students with an area(s) of study in Clinical Psychopharmacology.

**Primary grade mode:** Standard Letter

**Schedule type(s):** Independent Study, Lecture, Web Instructed

**Area(s) of Inquiry:** None

## MSCP 202. PHARMACOLOGY & CLIN PHARM I. (3 Credits)

This course is a study of the principles of the pharmaceutical sciences broadly comprising the disciplines of pharmacokinetics and pharmacodynamics. Key pharmacokinetic concepts covered include the absorption, distribution, metabolism, and excretion of drugs. Key pharmacodynamic concepts covered include drug receptor interactions, receptor signaling, and dose-response curves. The course uses these concepts to introduce the mechanism of action and clinical use of medications affecting the autonomic, cardiovascular, and respiratory systems. The format for the course will primarily consist of asynchronous lectures with individual active learning activities and synchronous case-based discussions which focus on a more in-depth, interactive-learning format.

**Level:** Graduate

**Prerequisite(s):** MSCP 201

**Corequisite(s):** None

**Restrictions:**

Enrollment is limited to students with an area(s) of study in Clinical Psychopharmacology.

**Primary grade mode:** Standard Letter

**Schedule type(s):** Independent Study, Lecture, Web Instructed

**Area(s) of Inquiry:** None

## MSCP 203. PHYSIOLOGY/PATHOPHYSIOLOGY II. (3 Credits)

This course is a continuation of MSCP 201. It is a study of human physiology and the physiological changes that are the cause or result of pathologic processes. The course builds upon and expands core knowledge of human anatomy, physiology, and biochemistry as it relates to the loss of homeostasis. The format for the course will primarily consist of asynchronous lectures with individual active learning activities and synchronous case-based discussions which focus on a more in-depth, interactive-learning format.

**Level:** Graduate

**Prerequisite(s):** MSCP 201

**Corequisite(s):** None

**Restrictions:**

Enrollment is limited to students with an major in Clinical Psychopharmacology.

**Primary grade mode:** Standard Letter

**Schedule type(s):** Independent Study, Lecture, Web Instructed

**Area(s) of Inquiry:** None

## MSCP 204. PHARMACOLOGY & CLIN PHARM II. (3 Credits)

The course uses concepts learned in MSCP 202 to introduce the mechanism of action and clinical use of medications affecting the gastrointestinal, renal, genitourinary, pancreatic, and endocrine systems. The mechanism of action of antimicrobials and anticancer medications are also covered. The format for the course will primarily consist of asynchronous lectures with individual active learning activities and synchronous case-based discussions which focus on a more in-depth, interactive-learning format.

**Level:** Graduate

**Prerequisite(s):** MSCP 202

**Corequisite(s):** None

**Restrictions:**

Enrollment is limited to students with an major in Clinical Psychopharmacology.

**Primary grade mode:** Standard Letter

**Schedule type(s):** Independent Study, Lecture, Web Instructed

**Area(s) of Inquiry:** None

## MSCP 205. FUNDAMENTALS OF NEUROSCIENCE. (3 Credits)

This course is a study of the principles of neuroscience that underly the neuropathology of mental illness as well as the processes by which psychotropic drugs act on the brain. Material from this course will provide psychologists a foundation in basic neuroscience required to understand the neuroanatomical, neurochemical, and neurophysiological foundations of normal and abnormal psychological functioning. This course will prepare psychologists with an understanding of the principles of neuroscience which is a component of being able to prescribe psychotropic medications competently, safely, and effectively. The format for the course will primarily consist of asynchronous lectures with individual active learning activities and synchronous case-based discussions which focus on a more in-depth, interactive-learning format.

**Level:** Graduate

**Prerequisite(s):** None

**Corequisite(s):** None

**Restrictions:**

Enrollment is limited to students with an area(s) of study in Psychopharmacotherapy or Clinical Psychopharmacology.

**Primary grade mode:** Standard Letter

**Schedule type(s):** Independent Study, Lecture, Web Instructed

**Area(s) of Inquiry:** None

**MSCP 206. PSYCOPHARMACOTHERAPY I. (3 Credits)**

This course is a study of the principles of psychopharmacotherapy broadly comprising the disciplines of psychopharmacology and pharmacotherapy. Integration and application of pharmacologic, pharmacokinetic, pathophysiologic and social administrative principles are required to practice higher, problem-based learning skills as applied to class-based and group-based discussions. The format for the course will primarily consist of asynchronous lectures with individual active learning activities and synchronous case-based discussions which focus on a more in-depth, interactive-learning format.

**Level:** Graduate

**Prerequisite(s):** None

**Corequisite(s):** None

**Restrictions:**

Enrollment is limited to students with an area(s) of study in Psychopharmacotherapy or Clinical Psychopharmacology.

**Primary grade mode:** Standard Letter

**Schedule type(s):** Independent Study, Lecture, Web Instructed

**Area(s) of Inquiry:** None

**MSCP 207. PSYCOPHARMACOTHERAPY II. (3 Credits)**

This course is a study of the principles of psychopharmacotherapy broadly comprising the disciplines of psychopharmacology and pharmacotherapy. Integration and application of pharmacologic, pharmacokinetic, pathophysiologic and social administrative principles are required to practice higher, problem-based learning skills as applied to class-based and group-based discussions. The format for the course will primarily consist of asynchronous lectures with individual active learning activities and synchronous case-based discussions which focus on a more in-depth, interactive-learning format.

**Level:** Graduate

**Prerequisite(s):** None

**Corequisite(s):** None

**Restrictions:**

Enrollment is limited to students with an area(s) of study in Psychopharmacotherapy or Clinical Psychopharmacology.

**Primary grade mode:** Standard Letter

**Schedule type(s):** Independent Study, Lecture, Web Instructed

**Area(s) of Inquiry:** None

**MSCP 208. PRACTICE SKILLS & ASSESSMENT I. (3 Credits)**

This course is the study of the surrounding principles of prescribing psychotropic medication. Material from this course will provide psychologists with an understanding of the wide skills and critical thinking required encompassing the art of prescribing psychotropic medication. This course will prepare psychologists to be ethical stewards of prescription writing and facilitate knowledge of a high standard of various topics including but not limited to, care coordination, practice standard guidelines, ethical principles, documentation, and clinical decision-making. The format for the course will primarily consist of asynchronous lectures with weekly quizzes and case discussions, synchronous based discussions, and a final exam.

**Level:** Graduate, Professional Health Care

**Prerequisite(s):** None

**Corequisite(s):** None

**Restrictions:**

Enrollment is limited to students with an major in Clinical Psychopharmacology.

**Primary grade mode:** Standard Letter

**Schedule type(s):** Independent Study, Lecture, Web Instructed

**Area(s) of Inquiry:** None

**MSCP 209. PSYCOPHARMACOTHERAPY III. (3 Credits)**

This course is a study of the principles of psychopharmacotherapy broadly comprising the disciplines of psychopharmacology and pharmacotherapy focused on special populations. Integration and application of pharmacologic, pharmacokinetic, pathophysiologic and social administrative principles are required to practice higher, problem-based learning skills as applied to class-based and group-based discussions. The format for the course will primarily consist of asynchronous lectures with individual active learning activities and synchronous case-based discussions which focus on a more in-depth, interactive-learning format.

**Level:** Graduate

**Prerequisite(s):** None

**Corequisite(s):** None

**Restrictions:**

Enrollment is limited to students with an area(s) of study in Psychopharmacotherapy or Clinical Psychopharmacology.

**Primary grade mode:** Standard Letter

**Schedule type(s):** Independent Study, Lecture, Web Instructed

**Area(s) of Inquiry:** None

**MSCP 210. PRACTICE SKILL & ASSESSMENT II. (3 Credits)**

This course will include instruction on how to conduct a systematic patient interview to produce an integrated report of a patient's medical, surgical, and psychiatric history; perform the basic skills of physical examination to evaluate a patient's health status sufficiently to ensure the patient's suitability for treatment with medication; the monitoring of health parameters that may be impacted by medications including the use of ancillary tests (laboratory, EKG, etc.); and the knowledge base necessary to refer to and collaborate with physicians in the management of medically complex patients. Through mastery of this material, this course will prepare psychologists with an understanding of the principles of physical assessment which is an essential component of prescribing psychotropic medications competently, safely, and effectively.

**Level:** Graduate

**Prerequisite(s):** None

**Corequisite(s):** None

**Restrictions:**

Enrollment is limited to students with an area(s) of study in Clinical Psychopharmacology.

**Primary grade mode:** Standard Letter

**Schedule type(s):** Independent Study, Lecture, Web Instructed

**Area(s) of Inquiry:** None