



INSTRUCTIONAL PACKAGE

MTH 141

Pharmacology for Massage Therapy

Effective Term

Fall 2024/Spring 2025/Summer 2025

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Part I: Course Information

Effective Term: Fall 2024/Spring 2025/Summer 2025

COURSE PREFIX: MTH 141

COURSE TITLE: Pharmacology for Massage Therapy

CONTACT HOURS: 1.0.1

CREDIT HOURS: 1

RATIONALE FOR THE COURSE:

This course introduces the student to the basic pharmacological interventions for common pathologies and conditions exhibited by massage therapy clients. It addresses how particular injuries, syndromes, diseases, and conditions respond to pharmacological interventions.

COURSE DESCRIPTION:

This course studies the effects of medications commonly reported on health intake forms by massage clients. Topics include common over-the-counter pain relievers, NSAIDS, and medications for cardiovascular disease and diabetes. Emphasis is placed on possible contradictions for massage therapy.

PREREQUISITES/CO-REQUISITES:

Pre-requisites: C or better MTH 113, MTH 120 AND MTH 121

Co-requisites: MTH 126, MTH 128, MTH 132, MTH 135, & MTH 136

***Online/Hybrid** courses require students to complete the [Distance Learning Orientation Video](#) prior to enrolling in an online course.

REQUIRED MATERIALS:

Please visit the [BOOKSTORE](#) online site for most current textbook information.

Enter the semester, course prefix, number and section when prompted and you will be linked to the correct textbook.

ADDITIONAL REQUIREMENTS:

- Washable Bottle Holster Single - Black W/ Bottle and Pump
- Scrubs will be worn throughout the program from day 1 of week 2 until the end of the Massage Therapy Program. Jewelry will not be worn while working on the massage

tables during any lab time. Nails must be kept short and clean.

- Massage table for home practice – recommended for first semester

TECHNICAL REQUIREMENTS:

Access to Desire2Learn (D2L), HGTC's learning management system (LMS) used for course materials.

Access to myHGTC portal for student self-services.

College email access – this is the college's primary official form of communication.

STUDENT IDENTIFICATION VERIFICATION:

Students enrolled in online courses will be required to participate in a minimum of one (1) proctored assignment and/or one (1) virtual event to support student identification verification. Please refer to your Instructor Information Sheet for information regarding this requirement.

CLASSROOM ETIQUETTE:

As a matter of courtesy to other students and your professor, please turn off cell phones and other communication/entertainment devices before class begins. If you are monitoring for an emergency, please notify your professor prior to class and switch cell phone ringers to vibrate.

NETIQUETTE: is the term commonly used to refer to conventions adopted by Internet users on the web, mailing lists, public forums, and in live chat focused on online communications etiquette. For more information regarding Netiquette expectations for distance learning courses, please visit [Online Netiquette](#).

Part II: Student Learning Outcomes

COURSE LEARNING OUTCOMES and ASSESSMENTS*:

Module Subject	Learning Obejctives	Assignments/Assessments
Module 1 : Basic Principles of Pharmacology Chapter 1.	<ul style="list-style-type: none"> • Learning major ways in which drugs work. • Understanding chemical communication • Understand and explain pharmacodynamics. • Understand and explain Pharmacokinetics. 	As assigned in D2L/Massage Prep
Module 2 Nervous System Chapter 2	<ul style="list-style-type: none"> • Understand the organization of the Nervous System. 	As assigned in D2L/Massage Prep

	<ul style="list-style-type: none"> Learn the difference between Somatic Nervous System and Autonomic Nervous System. 	
Module 3 Nervous System Drugs used in Disorders of the Central Nervous System and Treatment of Pain Chapter 3	<ul style="list-style-type: none"> Introduction to the CNS and Drug Action. Drugs affecting movements disorders and other neurodegenerative disorders. The difference between Analgesics and Anesthetics 	As assigned in D2L/Massage Prep
Module 4 Cardiovascular System Drugs used in Disorders of the Cardiovascular System Chapter 4	<ul style="list-style-type: none"> Understand Cardiovascular system: anatomy, function, and regulation of the Heart. Know the difference in Hypercholesterolemia and Atherosclerosis. Understand Angina, heart failure, arrhythmias, hypertension and peripheral vascular disease. 	As assigned in D2L/Massage Prep
Module 5 Endocrine System Drugs used in Disorders of the Endocrine System Chapter 5	<ul style="list-style-type: none"> Understand Hypothalamic and Pituitary Disorders Understand Thyroid Disorders Understand Corticosteroids and Adrenocortical Dysfunction Understand the different types of Diabetes Mellitus 	As assigned in D2L/Massage Prep
Module 6 Gastrointestinal System Drugs used in Disorders of the Gastrointestinal System Chapter 6	<ul style="list-style-type: none"> Understand the function and regulation of the GI System Understand the drugs used in GI Disorders Understand the functional disorder of the large intestine. 	As assigned in D2L/Massage Prep
Module 7 Respiratory System Drugs used in Disorders of the Respiratory System Chapter 7	<ul style="list-style-type: none"> Understand the drugs used in disorders of the respiratory system. Understand allergy, asthma, cough, chronic obstructive pulmonary disease, restrictive pulmonary disease, pneumonia. Understand anti-inflammatory agents: corticosteroids and leukotriene antagonists. 	As assigned in D2L/Massage Prep

<p>Module 8 Reproductive System Kinesiology and Trail Guide Chapter Drugs used in Disorders of the Reproductive System Chapter 8</p>	<ul style="list-style-type: none"> • Understand drugs used in disorders of the reproductive system. • Understand the organization and function of the reproductive system. • Discuss what contraception is. • Understand endometriosis and how it is treated. • Discuss postmenopausal hormone changes and therapy, estrogen receptor modulators and antiestrogens and hypogonadism. 	<p>As assigned in D2L/Massage Prep</p>
<p>Module 9 Renal Function Drugs used to Affect Renal Function Chapter 9</p>	<ul style="list-style-type: none"> • Understand drugs used to affect renal function. • Understand the organization and function of the renal system • Understand the difference between diuretic, urinary incontinence, and urinary tract calculi. • Discuss renal insufficiency and dialysis. 	
<p>Module 10 Infectious Disease and Neoplastic Disorders Drugs used in Infectious Disease and Neoplastic Disorders</p>	<ul style="list-style-type: none"> • Understand drugs used in infectious diseases. • Understand drugs used in neoplastic disorders. • Discuss the differences in bacterial infections (antibiotics) , fungal infections (antifungal drugs), viral infections (antiviral agents), and HIV infection (antiretroviral agents). • Understand the introduction to chemotherapy. • Discuss the different types of antimetabolites. • Understand what an alkylating agent does. • Understand hormonal therapies. 	
<p>Module 11 Skin Disorders Drugs used for Skin Disorders Chapter 11</p>	<ul style="list-style-type: none"> • Understand drugs used for skin disorders. • Discuss the organization of the skin. • Be able to give definition of hair loss, blister disease, eczema, psoriasis, mite and louse infestations and hives. 	

<p>Module 12 Vitamins, Deficiencies and Drug Interactions Chapter 13 and 14 Drug Allergy, Abuse, and Poisoning or Overdose Chapter</p>	<ul style="list-style-type: none"> • Understand Fat-Soluble Vitamins, Water-Soluble Vitamins and Vitamin-Drug Interactions • Understand Drug Allergy, Drug Abuse, Poisoning or Overdose 	
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****Students – please refer to the Instructor’s Course Information sheet for specific information on assessments and due dates.***

Part III: Grading and Assessment

EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS*:

Students’ performance will be assessed, and the weight associated with the various measures/artifacts are listed below.

EVALUATION*

Quizzes/Tests	10%
Assignment Massage Prep	40%
Discussions	35%
Final Exam	15%
	<hr/> 100%

****Students, for the specific number and type of evaluations, please refer to the Instructor’s Course Information Sheet.***

GRADING SYSTEM:

State the College’s or departmental grading system as delineated in the Catalog. Please note the College adheres to a 10-point grading scale A = 100 – 90, B = 89- 80, C = 79 – 70, F = 69 and below.

Grades earned in courses impact academic progression and financial aid status. Before withdrawing from a course, be sure to talk with your instructor and financial aid counselor about the implications of that course of action. Ds, Fs, Ws, WFs and Is also negatively impact academic progression and financial aid status.

The Add/Drop Period is the first 5 days of the semester for **full term** classes. Add/Drop periods are shorter for accelerated format courses. Please refer to the for deadlines for add/drop. You must attend at least one meeting of all of your classes during that period. If you do not, you will be dropped from the course(s) and your Financial Aid will be reduced accordingly.

Part IV: Attendance

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of 80 percent (80%) of their classes in order to receive credit for any course. Due to the varied nature of courses taught at the college, some faculty may require up to 90 percent (90%) attendance. Pursuant to 34 Code of Federal Regulations 228.22 - Return to Title IV Funds, once a student has missed over 20% of the course or has missed two (2) consecutive weeks, the faculty is obligated to withdraw the student and a student may not be permitted to reenroll. **Instructors define absentee limits for their class at the beginning of each term; please refer to the Instructor Course Information Sheet.**

For online and hybrid courses, check your Instructor's Course Information Sheet for any required on-site meeting times. Please note, instructors may require tests to be taken at approved testing sites, and if you use a testing center other than those provided by HGTC, the center may charge a fee for its services.

Part V: Student Resources



THE STUDENT SUCCESS AND TUTORING CENTER (SSTC):

The SSTC offers to all students the following **free** resources:

1. **Academic tutors** for most subject areas, **Writing Center support**, and **college success skills**.
2. Online **tutoring** and academic support resources.
3. Professional and interpersonal communication **coaching** in the EPIC Labs.

Visit the [Student Success & Tutoring Center](#) website for more information. To schedule tutoring, contact the SSTC at ssc@hgtc.edu or self-schedule in the Penji iOS/Android app or at www.penjiapp.com. Email ssc@hgtc.edu or call SSTC Conway, 349-7872; SSTC Grand Strand, 477-2113; and SSTC Georgetown, 520-1455, or go to the [Online Resource Center](#) to access on-demand resources.



STUDENT INFORMATION CENTER: TECH Central

TECH Central offers to all students the following **free** resources:

1. **Getting around HGTC**: General information and guidance for enrollment, financial aid, registration, and payment plan support!

2. Use the [Online Resource Center \(ORC\)](#) including Office 365 support, password resets, and username information.
3. **In-person workshops, online tutorials and more services** are available in Desire2Learn, Student Portal, Degree Works, and Office 365.
4. **Chat with our staff on TECH Talk**, our live chat service. TECH Talk can be accessed on the student portal and on TECH Central's website, or by texting questions to (843) 375-8552.



HGTC LIBRARY:

Each campus location has a library where HGTC students, faculty, and staff may check out materials with their HGTC ID. All three HGTC campus libraries are equipped with computers to support academic research and related school work; printing is available as well. Visit the [Library](#) website for more information or call (843) 349-5268.

STUDENT TESTING:

Testing in an **online/hybrid** course and in **make-up exam** situations may be accomplished in a variety of ways:

- Test administered within D2L.
- Test administered in writing on paper.
- Test administered through Publisher Platforms (which may have a fee associated with the usage)

Furthermore, tests may have time limits and/or require a proctor.

Proctoring can be accomplished either face-to-face at an approved site or online through our online proctoring service. To find out more about proctoring services, please visit the [Online Testing](#) section of the HGTC's Testing Center webpage.

The **Instructor Information Sheet** will have more details on test requirements for your course.

DISABILITY SERVICES:

HGTC is committed to providing an accessible environment for students with disabilities. Inquiries may be directed to HGTC's [Accessibility and Disability Service webpage](#). The Accessibility and Disability Services staff will review documentation of the student's disability and, in a confidential setting with the student, engage in an interactive process to develop an educational accommodation plan.

Note: It is the student's responsibility to self-identify as needing accommodations and to provide acceptable documentation. After a student has self-identified and submitted documentation of a disability, accommodations may be determined, accepted, and provided. Students will need to reach out to the Accessibility and Disability Services staff each semester to renew their accommodations.

COUNSELING SERVICES:

HGTC Counseling Services strives to optimize student success through managing personal and academic concerns that may interfere with achieving educational goals. Staff are available to every student for assistance and guidance on personal matters, academic concerns and other areas of concern. HGTC offers free in-person and telehealth counseling services to students. For more information about counseling services, please reach out to counseling@hgtc.edu or visit the website the [Counseling Services webpage](#).

STATEMENT OF EQUAL OPPORTUNITY/NON-DISCRIMINATION STATEMENT:

Horry-Georgetown Technical College shall not discriminate in employment or personnel decisions or in student admissions or in student decisions, or in all other segments of the College community on the basis of race, color, sex, national or ethnic origin, age, religion, disability, marital or family status, veteran status, political ideas, sexual orientation, gender identity, or pregnancy, childbirth, or related medical conditions, including, but not limited to, lactation, in the educational programs and activities which it operates, and the college is prohibited from discrimination in such manner by applicable laws. Practices and requirements for nondiscrimination extend to the enrollment of students in programs and activities of the College and employment by the College.

All inquiries regarding the federal laws as they relate to discrimination on the basis of sex may be directed to Tamatha Sells, Title IX Coordinator, Horry-Georgetown Technical College, Building 1100C, Room 107B, 2050 Hwy 501 E, PO Box 261966, Conway, SC 29528-6066, 843-349-5218, tamatha.sells@hgtc.edu or to the US Department of Education Office of Civil Rights. (Telephone: 800-421-3481/Email: OCR@ed.gov).

Other employee and applicant inquiries concerning the federal laws and their application to the College may be directed to Jacquelyne Snyder, Vice President, Human Resources and Employee Relations & the College's Affirmative Action/Equal Opportunity Officer, Horry-Georgetown Technical College, Building 200C, Room 205B, 2050 Hwy 501 E, PO Box 261966, Conway, SC 29528-6066, 843-349-5212, jacquelyne.snyder@hgtc.edu.

Other student and prospective student inquiries concerning the federal laws and their application to the College or any student decision may be directed to Dr. Melissa

Batten, Vice President, Student Affairs, Section 504 & Title II Coordinator
Horry-Georgetown Technical College, Building 1100C, Room 107A, 2050 Hwy 501 E, PO Box 261966, Conway, SC 29528-6066, 843-349-5228, melissa.batten@hgtc.edu.

TITLE IX REQUIREMENTS:

Title IX of the Education Amendments of 1972 protects students, employees, applicants for admission and employment, and other persons from all forms of sex discrimination.

HGTC prohibits the offenses of domestic violence, dating violence, sexual assault, and stalking and will provide students, faculty, and staff with necessary information regarding prevention, policies, procedures, and resources.

Any student, or other member of the college community, who believes that they have been a victim of sexual harassment, domestic violence, dating violence, sexual assault, or stalking may file a report with the college's Title IX Coordinator or campus law enforcement*.

*Faculty and Staff are required to report these incidents to the Title IX Coordinator when involving students. The only HGTC employees exempt from mandatory reporting are licensed mental health professionals (only as part of their job description such as counseling services).

For more information, contact Tamatha Sells, Title IX Coordinator, Conway Campus, Building 1100C, Room 107B, 843-349-5218, tamatha.sells@hgtc.edu.

PREGNANCY ACCOMMODATIONS

Under Title IX, colleges must not exclude a pregnant student from participating in any part of an educational program. Horry-Georgetown Technical College is committed to ensuring that pregnant students receive reasonable accommodations to ensure access to our educational programs.

Students should advise the Title IX Coordinator of a potential need for accommodations as soon as they know they are pregnant. It is extremely important that communication between student, instructors, and the Title IX Coordinator begin as soon as possible. Each situation is unique and will be addressed individually.

Title IX accommodations DO NOT apply to Financial Aid. Financial Aid regulations do not give the College any discretion in terms of Financial Aid eligibility.

Certain educational programs may have strict certification requirements or requirements mandated by outside regulatory agencies. Therefore, in some programs, the application of Title IX accommodations may be limited.

To request pregnancy accommodations, please complete the [**Pregnancy Intake Form**](#).