



TECHNICAL COLLEGE
OF THE LOWCOUNTRY

Technical College of the Lowcountry
Medical Assisting Program
FALL, 2020

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COURSE SYLLABUS/Fall 2020
MED 112 Medical Assisting Pharmacology

Course Number & Title: MED 112 Medical Assisting Pharmacology
Course Length: 15 weeks
Contact Hours: SH-2, LEC-1 LAB 3
Credits: 2
Section: FALL 2020
Class Meeting Days/Times: Online
Location: New River Wednesday/Thursday Lab as scheduled RM 220.

Prerequisites: NONE (suggested to take all general education requirements prior to application but not required)

Corequisites: AHS 102, BIO 112, MED 103, MED 104

Required Personal Protective Equipment Statement

"All students will be required to wear PPE as deemed appropriate and necessary per clinical facility for the duration of the clinical experience. Students will also be required to wear PPE while participating in any "on campus" activities such as labs/lectures. Failure to adhere to this mandate will render the student ineligible to participate in clinical rotations or "on campus" activities, and therefore unable to progress in the program".

Required Texts

Medical Assisting: Administrative and Clinical Procedures with Anatomy and Physiology, 7th ed., Booth, Kathryn A., Whicker, Leesa G., Wyman, Terri D., McGraw-Hill Education, 2020.

Student Workbook for use with Medical Assisting, 7th ed. Booth, Kathryn A., Whicker, Leesa G., Wyman, Terri D., McGraw-Hill Education, 2020.

All required online assignments and the SmartBook for this course are available in Connect. To access and purchase Connect, go to (*instructor provided URL*). Purchasing Connect online is the best value for your required course materials – typically half the price of the printed textbook bundle—and is usually cheaper than buying a rental or used book and a Connect access code separately.

Developed/Revised 8/2016 Revised: JValenti 8/2018 Approved: GMLevicki 8/2017, Revised JValenti 8/2019, JValenti 2020 Approved: GMLevicki 8/2020



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In Connect, every question links directly to the SmartBook. This means that when you are struggling with a question you can go directly to the explanation in the SmartBook for help without carrying around a heavy textbook! You can access the SmartBook from any computer, any time. If you change your mind and decide to purchase a print text, you can buy a discounted looseleaf version of your book with the click on a button. Remember, Connect is worth part of your total grade in this course.

Required Equipment

Working Calculator (no phone calculators allowed)
Stethoscope
Blood pressure cuff
Lab coat and Uniform (including proper footwear)
Gloves
Black and red pens

Course Aims and Objectives

This course provides a study of principles of pharmacology, drug therapy and the administration of medications.

Specific Learning Objectives

By the end of this course, students will (***denotes crucial objective**):

- 51.1 Identify the medical assistant's role in pharmacology.
- 51.2 Recognize the five categories of pharmacology and their importance to medication administration.*
- 51.3 Differentiate the major drug categories, drug names, and their actions.*
- 51.4 Classify over-the-counter (OTC), prescription, and herbal drugs.
- 51.5 Use credible sources to obtain drug information.
- 51.6 Carry out the procedure for registering or renewing a physician with the Drug Enforcement Administration (DEA) for permission to administer, dispense, and prescribe controlled drugs.
- 51.7 Identify the parts of a prescription, including commonly used abbreviations and symbols.
- 51.8 Discuss nonpharmacologic treatments for pain.
- 51.9 Describe how vaccines work in the immune system.
- 52.1 Explain the role of the medical assistant to ensure safe dosage calculations.*
- 52.2 Identify systems of measurements and their common uses.
- 52.3 Convert among systems of measurements.*
- 52.4 Execute dosage calculations accurately.*
- 52.5 Calculate dosages based on body weight and body surface area.
- 53.1 Describe rules and responsibilities regarding drug administration and the initial preparation for drug administration.*
- 53.2 List the rights of drug administration.
- 53.3 Recognize the correct equipment to use for administering medications.
- 53.4 Carry out the procedures for administering oral medications.*
- 53.5 Carry out procedures for administering parenteral medications by injection.*



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- 53.6 Carry out procedures for administering parenteral medications by other routes.*
- 53.7 Relate special considerations required for medication administration to pediatric, pregnant, breast-feeding, and geriatric patients.
- 53.8 Outline patient education information related to medications.
- 53.9 Implement accurate and complete documentation of medications.*
- 55.1 Relate daily energy requirements to the role of calories.
- 55.2 Identify nutrients and their role in health.*
- 55.3 Implement a plan for a nutritious, well-balanced diet and healthy lifestyle using the USDA's guidelines.
- 55.4 Describe methods used to assess a patient's nutritional status.
- 55.5 Explain reasons that a diet may be modified.
- 55.6 Identify types of patients who require special diets and the modifications required for each.
- 55.7 Describe the warning signs, symptoms, and treatment for eating disorders.
- 55.8 Educate patients about nutritional requirements.

Professional Objectives

1. Demonstrate self-discipline and a positive attitude by being on time, being prepared for class, and submitting all assignments on time and in a neat and professional manner.
2. Be respectful, and not disruptive, to your peers and instructor.
3. Demonstrate effective oral and written communication skills by participating in class discussions, projects, problem solving, and by following verbal instructions, etc.
4. Demonstrate accuracy by following directions explicitly when completing assignments.
5. Adhere to HIPAA regulations by maintaining patient/student confidentiality.

Grading Procedures

At the end of each course, each student's final grade is determined as follows:

Unit Assignments and Quizzes (4):	25%
Professionalism	5%
Exams (4) and Projects	35%
Competencies	35%
Total	100%

Grading Policy

Grading scale

93% - 100% A

85% - 92% B

78% - 84% C

70% - 77% D

Below 70% F



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W	withdraw
WP	withdraw with passing grade
WF	withdraw with failing grade
I	Incomplete

Grading Methodology

- Honorlock Online Proctoring and Technology Requirements**
 - TCL uses an online test proctoring service called Honorlock to monitor some online tests as an alternative to in-person proctoring. Your instructor may elect to have some of your tests proctored using Honorlock. If so, you will need to make sure that you have access to the necessary equipment in order to take your online-proctored tests:*
 - A computer with access to a high-speed Internet connection*
 - A webcam and microphone. A functioning webcam and microphone are required to complete proctored online tests.*
 - Microsoft Office. Microsoft Office can be downloaded free by accessing the Office 365 link in you TCL email account.*
 - The ability to install the Honorlock extension on Google Chrome*
- All assignments are due on the date scheduled and no late assignments will be accepted. A grade of "0" will be given if projects or assignments are not turned in on time. If you are not going to attend class then you must turn the assignment in to the instructor prior to date due or scan and email it by the day it is due.
- A grade of '0' will be recorded for missed tests except under extenuating circumstances. In order for a makeup test to be considered, a written excuse must be presented to the instructor (i.e. doctor, ER physician, jury duty, accident report).
- If a lecture by a guest speaker is missed the student will be required to write a comprehensive term paper on the information covered. The term paper will be due within 1 week of the time missed.
- If a student is absent on an assigned presentation date, a zero will automatically be given for the presentation grade except under extenuating circumstances which must be approved by the instructor.
- A minimum score of 80% must be met on all psychomotor and affective domain objectives (skill). Three (3) attempts will be allowed per skill / objective. The student must successfully complete the 3rd objective attempt before the end of the semester.
- If the objective is to be repeated, the highest possible recorded grade will be an 80%. If the objective is not passed on the third attempt, the grade received is the grade recorded.
- Repeat attempts of any psychomotor and affective objectives (skills) will be scheduled at the instructor's discretion.



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9. The final grade must be **78.000** or more in order to pass the course and progress in the program.
10. Grades are posted on Blackboard within one week of administration of tests and examinations.
11. Students enrolled in classes taught online or have an online component are expected to attend on campus activities, such as testing, labs, and/or presentations as determined by program faculty.

Hazardous Weather

In case weather conditions are so severe that operation of the College may clearly pose a hardship on students and staff traveling to the College, notification of closing will be made through the following radio and television stations: WYKZ 98.7, WGCO 98.3, WGZO 103.1, WFXH 106.1, WWVW 106.9, WLOW 107.9, WGZR 104.9, WFXH 1130 AM, WLVH 101.1, WSOK 1230 AM, WAEV 97.3, WTOC TV, WTGS TV, WJWJ TV, and WSAV TV.

With TCL's Text Alerts you can receive immediate notification of emergency events via text messaging on your cell phone. All students are strongly encouraged to register their cell phones with this service. Signing up is easy, just fill out the simple form on the TCL website (<https://tcl.regroup.com/signup>).

Academic Misconduct

There is no tolerance at TCL for academic dishonesty and misconduct. The College expects all students to conduct themselves with dignity and to maintain high standards of responsible citizenship.

It is the student's responsibility to address any questions regarding what might constitute academic misconduct to the course instructor for further clarification.

The College adheres to the Student Code for the South Carolina Technical College System. Copies of the Student Code and Grievance Procedure are provided in the TCL Student Handbook, the Division Office, and the Learning Resources Center.

Health care professionals hold the public trust. Academic misconduct by health science students calls that trust into question and academic integrity is expected.

It is a fundamental requirement that any work presented by students will be their own. Examples of academic misconduct include (but are not limited to):

1. Copying the work of another student or allowing another student to copy working papers, printed output, electronic files, quizzes, tests, or assignments.
2. Completing the work of another student or allowing another student to complete or contribute to working papers, printed output, electronic files, quizzes, tests, or assignments.
3. Viewing another student's computer screen during a quiz or examinations.
4. Talking or communicating with another student during a test.
5. Violating procedures prescribed by the instructor to protect the integrity of a quiz, test, or assignment.



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6. Plagiarism in any form, including, but not limited to: copying/pasting from a website, textbook, previously submitted student work, or any instructor-prepared class material; obvious violation of any copyright-protected materials.
7. Knowingly aiding a person involved in academic misconduct.
8. Providing false information to staff and/or faculty.
9. Entering an office unaccompanied by faculty or staff.
10. **Misuse of any electronic devices including "cheating watches". All students are required to remove ALL electronic watches of any kind during exams & quizzes and should be placed with their personal belongings in the back of the classroom.**

****During paper examinations, only answers transferred and completed on Scantron sheets will be graded electronically to count towards the test score.***

Classroom Computer Policy

Only assigned computer activity will be conducted during class time. If a student is observed accessing a computer for any reason other than assigned activities, the instructor can administer a pop quiz to the entire class. Exceptions will be made on an individual basis and must be discussed with the instructor prior to the start of class.

Cell Phone and Electronic Devices Policy

All cell phones and electronic devices will be turned off and stored before class starts. If a student's cell phone rings or if a student is observed texting or engaging in any other cell phone activity during class time, the instructor can administer a pop quiz to the entire class.

Exceptions will be made on an individual basis and must be discussed with the instructor prior to the start of class.

Attendance

1. Students will be expected to accept their responsibility for successful completion of course objectives and to demonstrate sincere interest in professional development by attendance at every scheduled class and lab.

When a student is unable to attend class due to illness, death in the family, etc., that student will be responsible for notifying the instructor (**not sending a message with another student**) prior to the class or lab from which the student will be absent.

Any student absent from class is responsible for:

- a. Obtaining all handouts
- b. Acquiring material discussed in the missed class by contacting a classmate before class to assist with notes taken, etc.
- c. Assignments
- d. Understanding that pop quizzes cannot be made up.



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2. Perfect attendance (no absences, tardiness or early departures from class or lab) will be rewarded with 5 (five) extra credit points added to the final exam grade.
3. A total of 2 absences from lecture, lab or a combination of these will be permitted without penalty. (See tardy and early departure policy below.) Each absence, tardy or early departure thereafter from either lecture or lab will result in the deduction of 2 points from the student's final grade.
4. Any student who is late for class should enter quietly as to not disrupt activities already in progress or other students in the learning process. The program faculty expects that students will be on time for each and every class and lab. A student will be counted tardy if they are 1 to 10 minutes late for class (according to clock in room where exam is being held). Tardiness of more than 10 minutes is considered an absence of one class period. Faculty expects students to remain in class for the entire period. An early departure is defined as leaving class before class is dismissed by the instructor. Two instances of tardy, or two of early departure or one tardy and one early departure will equal one absence.
5. If a student never attends or is absent for more than 10% of a class the student will be withdrawn per the attendance policy in the student handbook. Failure to attend class and/or withdrawal from class can negatively impact your financial assistance.
6. **Reinstatement requires the signature of the Division Dean.**

Attendance in an online course is defined by; at least once weekly course access and by completion of assignments as required by the instructor. Each student will be expected to access the web class at least once a week and complete weekly assignments on time. Additional access is encouraged and may be necessary for successful completion of classes.

Withdrawals and Incompletes

In this course, the instructor *will* withdraw a student during the course of the class for non-attendance. It is the responsibility of the student to email the instructor that you will not be attending and withdraw from the class if that becomes necessary. Failure to attend class and/or withdrawal from class may impact your financial assistance.

While withdrawing from a course is sometimes necessary, it is advisable to discuss this with the instructor before withdrawing. Additionally before withdrawing, consider whether this course is a prerequisite for another course; whether the course will be offered again in the future; whether withdrawing will delay plans to transfer graduation; or whether withdrawing will affect eligibility for honors designation, health insurance benefits or other financial arrangements.

When a student determines that he/she will be unable to complete courses in which he/she is currently enrolled, it is the student's responsibility to initiate procedures leading to a formal withdrawal ("W") in order to avoid a failing ("F") grade.



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In the event it becomes necessary for a student to withdraw from the course ***OR if a student stops attending class, it is the student's responsibility to initiate and complete the necessary paperwork.*** Withdrawing from class may have consequences associated with financial aid and time to completion. Students are strongly encouraged to consult with Financial Aid prior to withdrawing from any class, particularly if the student is currently on a warning or probation status.

Progression Policy

Progression in the Medical Assisting program is dependent on satisfying course prerequisites, co-requisites and maintaining a grade of "C" or better for all courses in the curriculum. No course in the Medical Assisting curriculum may be taken more than twice.

Student Academic Integrity Policy

Students are expected to maintain absolute integrity and high standards of individual honor in their academic work. Students are expected to do their own work in this course. It is a violation of policy for any student to share work with another. This includes but is not limited to, homework, papers, other written reports, tests and exams. In addition, conduct that violates the standards of academic honesty and integrity and is subject to disciplinary action may include but is not limited to cheating, fabrication and falsification, plagiarism, abuse of academic materials, installation of a computer virus, and complicity in academic dishonesty.

Accommodations for Students with Disabilities

Students who have a documented disability or who may think that they may have learning problem may contact the school administration office. Instructors will provide the necessary accommodations upon the advice of the administration office.

Netiquette

If you communicate with your classmates or instructor in writing through the discussion forum, e-mail, message link, or chat sessions. "Online manners" are generally known as "netiquette." As a general rule, you should adhere to the same classroom conduct that you would "off-line" in a face-to-face course. Some examples of proper netiquette are:

- Avoid writing messages in all capital letters. THIS IS GENERALLY UNDERSTOOD AS SHOUTING.
- Be careful what you put in writing. Even if you are writing a message to one person, assume that anyone could read it. Though you may send a message to a single person, it is very easy to forward your message to many other people.
- Grammar and spelling matter. Online courses demand the same standard of academic communication and use of grammar as face-to-face courses.
- Never use profanity in any area of an online course. The transcripts of online course message boards, email, discussion forums, and chat sessions may be saved by the instructor and/or school administration.



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- When responding to e-mail messages, only use "Reply to All" when you really intend to reply to all.
- Avoid unkindly public criticism of others.
- Use sarcasm cautiously. In the absence of nonverbal cues such as facial expressions and voice inflections, the context for your sarcasm may be lost, and your message may thus be misinterpreted.

Course Coordinator: Jaclyn Valenti, RMA, AS, BA, M.Ed.

OFFICE LOCATION: Building 4 Room 111

PHONE NUMBER: (843) 525-8228

OFFICE HOURS: As posted, by appointment

Email: jvalenti@tcl.edu

[*This syllabus is subject to change at any point in the semester at the instructor's discretion](#)



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ACKNOWLEDGEMENT/PROFESSIONALISM GRADE

I, _____, understand and agree to all statements as outlined in the MED 103 Syllabus. I also understand a professionalism grade will be assigned to me. I will start out with 100 points. If I breach any of the “Dress Code and Professionalism” policies as stated in the Medical Assisting Program Handbook, a minimum of 5 points will be deducted for each occurrence.

Student Signature _____ Date _____



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SUGGESTED 16-WEEK ADMINISTRATIVE COURSE OUTLINE

WEEK	TOPIC(S)*	CHAPTER(S)	SUGGESTED COMPETENCIES**
1-4	"I.C.11. Identify the classifications of medications including: a. indications for use b. desired effects c. side effects d. adverse reactions" II.C.5. Identify abbreviations and symbols used in calculating medication dosages V.P.3. Use medical terminology correctly and pronounced accurately to communicate information to providers and patients "X.P.5. Perform compliance reporting based on public health statutes X.P.6. Report an illegal activity in the healthcare setting following proper protocol"	51	PROCEDURE 51-1 Helping the Licensed Practitioner Comply with the Controlled Substances Act of 1970 PROCEDURE 51-2 Interpreting a Prescription
5-8	"II.C.3. Define basic units of measurement in: a. the metric system b. the household system" "II.C.1. Demonstrate knowledge of basic math computations	52	



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	<p>II.C.2. Apply mathematical computations to solve equations</p> <p>II.C.4. Convert among measurement systems"</p> <p>II.C.5. Identify abbreviations and symbols used in calculating medication dosages</p> <p>II.P.1. Calculate proper dosages of medication for administration</p>		
9-12	<p>II.C.5. Identify abbreviations and symbols used in calculating medication dosages</p> <p>"I.P.4. Verify the rules of medication administration:</p> <ul style="list-style-type: none">a. right patientb. right medicationc. right dosed. right routee. right timef. right documentation" <p>"I.P.6. Administer oral medications</p> <p>II.P.1. Calculate proper dosages of medication for administration"</p> <p>"I.P.5. Select proper sites for administering parenteral medications</p> <p>I.P.7. Administer parenteral (excluding IV) medications"</p> <p>"V.P.4. Coach patients regarding:</p> <ul style="list-style-type: none">b. health maintenance	53	<p>PROCEDURE 53-1 Administering Oral Drugs</p> <p>PROCEDURE 53-2 Administering Buccal or Sublingual Drugs</p> <p>PROCEDURE 53-3 Drawing a Drug from an Ampule</p> <p>PROCEDURE 53-4 Reconstituting and Drawing a Drug for Injection</p> <p>PROCEDURE 53-5 Giving an Intradermal (ID) Injection</p> <p>PROCEDURE 53-6 Giving a Subcutaneous (Subcut) Injection</p>



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	<p>c. disease prevention d. treatment plan" X.P.3. Document patient care accurately in the medical record</p>		<p>PROCEDURE 53-7 Giving an Intramuscular (IM) Injection PROCEDURE 53-8 Administering Inhalation Therapy PROCEDURE 53-9 Administering and Removing a Transdermal Patch and Providing Patient Instruction PROCEDURE 53-10 Assisting with Administration of a Urethral Drug PROCEDURE 53-11 Administering a Vaginal Medication PROCEDURE 53-12 Administering a Rectal Medication</p>
13-15	<p>"IV.C.1. Describe dietary nutrients including: a. carbohydrates b. fat c. protein d. minerals e. electrolytes</p>	55	<p>PROCEDURE 55-1 Teaching Patients How to Read Food Labels PROCEDURE 55-2 Alerting Patients with Food Allergies to the Dangers of</p>



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	<p>f. vitamins g. fiber h. water"</p> <p>"IV.C.3. Identify the special dietary needs for: a. weight control b. diabetes c. cardiovascular disease d. hypertension e. cancer f. lactose sensitivity g. gluten-free h. food allergies"</p> <p>IV.C.2. Define the function of dietary supplements "IV.P.1. Instruct a patient according to a patient's special dietary needs X.P.3. Document patient care accurately in the medical record" IV.A.1. Show awareness of a patient's concerns regarding a dietary change</p>		Common Foods
16.	Course Review	Final Exam	All required competencies must be completed

* Utilize correlated content activities and questions including Videos, Animations, ACTIVSim, LearnSmart, and EHR SpringCharts.

** Competencies are found at the end of the chapter in the textbook and check-off sheets are found in the workbook.