

Florida Department of Education
Curriculum Framework

Program Title: Pharmacy Technician
Program Type: Career Preparatory
Career Cluster: Health Science

Secondary – Career Preparatory

Program Number	8418200
CIP Number	0317050705
Grade Level	9-12
Program Length	7 credits
Teacher Certification	Refer to the Program Structure section.
CTSO	HOSA, Skills USA
SOC Codes (all applicable)	29-2052 -- Pharmacy Technicians 31-9095 -- Pharmacy Aides
CTE Program Resources	http://www.fldoe.org/academics/career-adult-edu/career-tech-edu/program-resources.stml

Purpose

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Health Science career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of Health Science career cluster.

The program is designed to prepare students for employment as pharmacy technicians SOC Code 29-2052

The content includes but is not limited to metric system, medical terminology, medicinal drugs, pharmaceutical compounding, USP 795 standards, sterile techniques, USP 797 and UPS 800 standards, maintenance of inventory, IV preparation, receiving and handling of hazardous materials, preparing purchase orders, receiving and checking supplies purchased, printing labels, typing prescription labels, delivering medications, pricing prescription drug orders and supplies, prepackaging unit dose packages, patient record systems, control records, data processing automation in pharmacy, computer application, employability skills, leadership and human relations skills, health and safety, including CPR.

Additional Information relevant to this Career and Technical Education (CTE) program is provided at the end of this document.

Program Structure

This program is a planned sequence of instruction totaling seven credits.

To teach the courses listed below, instructors must hold at least one of the teacher certifications indicated for that course.

The following table illustrates the secondary program structure:

Course Number	Course Title	Teacher Certification	Length	SOC Code	Level	Graduation Requirement
8418210	Pharmacy Technician 1	PHARMACY 7 G	1 credit	31-9099	3	CT
8418220	Pharmacy Technician 2		1 credit	29-2052	3	CT
8418230	Pharmacy Technician 3		1 credit	29-2052	3	CT
8418240	Pharmacy Technician 4		1 credit	29-2052	3	CT
8418250	Pharmacy Technician 5		1 credit	29-2052	3	CT
8418260	Pharmacy Technician 6		1 credit	29-2052	3	CT
8418270	Pharmacy Technician 7		1 credit	29-2052	3	CT

(Graduation Requirement Codes: CT= Career & Technical Education, EQ= Equally Rigorous Science, EC= Economics, MA= Mathematics, PL= Personal Financial Literacy)

Regulated Programs

This program is regulated by the Department of Health; Florida Board of Pharmacy.

This program must be approved by the Board of Pharmacy. Program completers who wish to work as Pharmacy Technicians in the State of Florida must register with the Board of Pharmacy (465.014, F.S.).

Common Career Technical Core – Career Ready Practices

Career Ready Practices describe the career-ready skills that educators should seek to develop in their students. These practices are not exclusive to a Career Pathway, program of study, discipline or level of education. Career Ready Practices should be taught and reinforced in all career exploration and preparation programs with increasingly higher levels of complexity and expectation as a student advances through a program of study.

1. Act as a responsible and contributing citizen and employee.
2. Apply appropriate academic and technical skills.
3. Attend to personal health and financial well-being.
4. Communicate clearly, effectively and with reason.
5. Consider the environmental, social and economic impacts of decisions.
6. Demonstrate creativity and innovation.
7. Employ valid and reliable research strategies.
8. Utilize critical thinking to make sense of problems and persevere in solving them.
9. Model integrity, ethical leadership and effective management.
10. Plan education and career path aligned to personal goals.
11. Use technology to enhance productivity.
12. Work productively in teams while using cultural/global competence.

Standards

After successfully completing this program, the student will be able to perform the following:

- 01.0 Demonstrate knowledge of the healthcare delivery system and health occupations.
- 02.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 03.0 Demonstrate legal and ethical responsibilities.
- 04.0 Demonstrate an understanding of and apply wellness and disease concepts.
- 05.0 Recognize and practice safety and security procedures.
- 06.0 Recognize and respond to emergency situations.
- 07.0 Recognize and practice infection control procedures.
- 08.0 Demonstrate an understanding of information technology applications in healthcare.
- 09.0 Demonstrate employability skills.
- 10.0 Demonstrate knowledge of blood borne diseases, including HIV/AIDS.
- 11.0 Apply basic math and science skills.
- 12.0 Practice personal relation skills.
- 13.0 Identify pharmaceutical abbreviations and terminology as related to Community Pharmacy Practice.
- 14.0 Identify medical and legal considerations in various pharmacy settings.
- 15.0 Perform clerical duties as related to Pharmacy Practice.
- 16.0 Demonstrate knowledge of basic pharmaceutical chemistry and drug classification.
- 17.0 Demonstrate knowledge of inventory management.
- 18.0 Initiate measurement and calculating techniques as it relates to United States Pharmacopeia (USP) 795 (non-sterile) compounding in pharmacy practice.
- 19.0 Demonstrate a basic knowledge and skills in areas of science relevant to pharmacy technicians including anatomy/physiology and pharmacology.
- 20.0 Prepare and deliver medications.
- 21.0 Repackage unit dose medications.
- 22.0 Prepare United States Pharmacopeia (USP) 797 and USP 800 sterile products.

**Florida Department of Education
Student Performance Standards**

Course Title: Pharmacy Technician 1
Course Number: 8418210
Course Credit: 1

Course Description:

Health Science Core: The Health Science Core is a core of basic knowledge necessary for any health occupations career. This health core is encompassed inside of this course. Students who complete this course do not have to repeat the Health Science Core at any level. Students must have completed or be concurrently enrolled in the course to move on in this program.

Emphasis is placed on communication and interpersonal skills, use of technology, ethics and the development of critical thinking and problem solving skills. Students may shadow professionals throughout the course.

CTE Standards and Benchmarks	
01.0	Demonstrate knowledge of the health care delivery system and health occupations. The student will be able to:
01.01	Identify the basic components of the health care delivery system including public, private, government and non-profit.
01.02	Identify common methods of payment for healthcare services.
01.03	Describe the various types of healthcare providers and the range of services available including resources to victims of domestic violence.
01.04	Describe the composition and functions of a healthcare team.
01.05	Identify the general roles and responsibilities of the individual members of the healthcare team.
01.06	Identify the roles and responsibilities of the consumer within the healthcare delivery system.
01.07	Identify characteristics of effective teams.
01.08	Recognize methods for building positive team relationships.
01.09	Discuss attributes and attitudes of an effective leader.
01.10	Recognize factors and situations that may lead to conflict.
01.11	Recognize effective techniques for managing team conflict.
01.12	Describe factors that influence the current delivery system of healthcare.

CTE Standards and Benchmarks

01.13	Explain the impact of emerging issues including technology, epidemiology, bioethics and socioeconomics on healthcare delivery systems.
02.0	Demonstrate the ability to communicate and use interpersonal skills effectively. The student will be able to:
02.01	Develop basic speaking and active listening skills.
02.02	Develop basic observational skills and related documentation strategies in written and oral form.
02.03	Identify characteristics of successful and unsuccessful communication including communication styles and barriers.
02.04	Identify characteristics of verbal and non-verbal cues.
02.05	Use appropriate medical terminology and abbreviations.
02.06	Discuss the importance of courtesy and respect for patients and other healthcare workers and maintain good interpersonal relationships.
02.07	Explain the importance of patient/client educations regarding healthcare.
02.08	Adapt communication skills to varied levels of understanding and cultural orientation including diverse age, cultural, economic, ethnic and religious groups.
02.09	Discuss elements of communication using a sender-receiver model.
02.10	Distinguish between and report subjective and objective information.
02.11	Report relevant information in order of occurrence.
03.0	Demonstrate legal and ethical responsibilities. The student will be able to:
03.01	Explain the legal framework of the healthcare occupations including scope of practice legislation.
03.02	Explain practices that could result in malpractice, liability, negligence, abandonment, false imprisonment and fraud.
03.03	Explain procedures for accurate documentation and record keeping.
03.04	Explain the importance of healthcare facility policy and procedures for employees.
03.05	Explain the “Patient’s Bill of Rights”.
03.06	Identify and explain standards of the Health Insurance Portability and Accountability Act (HIPAA).
03.07	Describe advance directives.

CTE Standards and Benchmarks	
03.08	Describe informed consent.
03.09	Explain the laws governing harassment, labor and employment.
03.10	Differentiate between legal and ethical issues in healthcare.
03.11	Describe a code of ethics consistent with the healthcare occupation.
03.12	Identify and compare personal, professional, and organizational ethics.
03.13	Discuss the limits of authority and responsibility of health care workers including legislated scope of practice
03.14	Recognize and report illegal and/or unethical practices of healthcare workers.
03.15	Recognize and report abuse including domestic violence, neglect and suspected human trafficking.
03.16	Distinguish between the five schedules of controlled substances.
04.0	Demonstrate an understanding of and apply wellness and disease concepts. The student will be able to:
04.01	Describe strategies for prevention of diseases including health screenings and examinations.
04.02	Identify personal health practices and environmental factors which affect optimal function of each of the major body systems.
04.03	Identify psychological reactions to illness including defense mechanisms.
04.04	Identify complementary and alternative health practices.
04.05	Discuss the adverse effects of the use of alcohol, tobacco, and both legal and illegal drugs on the human body and apply safety practices related to these and other high risk behaviors.
04.06	Explain the basic concepts of positive self-image, wellness and stress.
04.07	Develop a wellness and stress control plan that can be used in personal and professional life.
04.08	Explore and utilize the U.S. Department of Agriculture’s nutrition resources.
04.09	Discuss the steps in the grief process.
05.0	Recognize and practice safety and security procedures. The student will be able to:
05.01	Recognize safe and unsafe working conditions and report safety hazards.
05.02	Explain why understanding how to safely use medical equipment is important.

CTE Standards and Benchmarks	
05.03	Explain and apply the theory of root- cause analysis
05.04	Identify and describe methods in medical error reduction and prevention in the various healthcare settings.
05.05	Identify and practice security procedures for medical supplies and equipment.
05.06	Explain personal safety procedures based on Occupations Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations (including standard precautions).
05.07	Recognize Materials Data Safety Sheets (MSDS) and comply with safety signs, symbols and labels.
05.08	Explain proper body mechanics and ergonomics.
05.09	Explain the procedure for properly identifying patients.
05.10	Explain procedures for the safe transport and transfer of patients.
05.11	Recognize fire, safety, disaster and evacuations procedures.
05.12	Discuss The Joint Commission patient safety goals (www.jointcommission.org) and any other applicable accrediting/regulatory agency guidelines.
06.0	Recognize and respond to emergency situations. The student will be able to:
06.01	Monitor and record vital signs accurately.
06.02	Describe legal parameters relating to the administration of emergency care.
06.03	Obtain and maintain training for certification on cardiopulmonary resuscitation (CPR), automated external defibrillator (AED), foreign body airway obstruction (FBAO) and first aid.
06.04	Recognize adverse drug related emergencies and take appropriate first aid action.
07.0	Recognize and practice infection control procedures. The student will be able to:
07.01	Define principles of infection control including standard and transmission-based precautions.
07.02	Explain medical asepsis and practice procedures such as hand-washing and isolation.
07.03	Explain surgical asepsis.
07.04	Describe how to dispose correctly of biohazardous materials according to appropriate government guidelines such as OSHA.
08.0	Demonstrate an understanding of information technology applications in healthcare. The student will be able to:

CTE Standards and Benchmarks	
08.01	Describe technology applications in healthcare.
08.02	Define terms and demonstrate basic computer skills.
08.03	Recognize technology applications in healthcare.
08.04	Interpret information from electronic medical documents.
08.05	Identify methods of communication to access and distribute data such as fax, e-mail and internet.
09.0	Demonstrate employability skills. The student will be able to:
09.01	Identify personal traits or attitudes desirable in a member of the healthcare team.
09.02	Exemplify basic professional standards of healthcare workers as they apply to hygiene, dress, language, confidentiality and behavior (i.e., telephone etiquette, courtesy and self-introductions).
09.03	Identify documents that may be required when applying for a job.
09.04	Write an appropriate resume.
09.05	Conduct a job search.
09.06	Complete a job application form correctly.
09.07	Examine levels of education, credentialing requirements including licensure and certification, employment opportunities, workplace environments and career growth potential.
09.08	Identify acceptable work habits.
09.09	Recognize appropriate affective/professional behavior.
09.10	Compare careers within the health science career pathways (diagnostic services, therapeutic services, health informatics, support services or biotechnology research and development).
10.0	Demonstrate knowledge of blood borne diseases. The student will be able to:
10.01	Recognize emerging diseases and disorders.
10.02	Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens.
10.03	Identify community resources and services available to the individuals with diseases caused by blood borne pathogens.
10.04	Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases.

CTE Standards and Benchmarks

10.05	Explain infection control techniques designed to prevent the spread of diseases caused by blood borne pathogens to the care of all patients following Centers for Disease Control (CDC) guidelines.
10.06	Explain the legal aspects of HIV/AIDS, including testing.
11.0	Apply basic math and science skills. The student will be able to:
11.01	Draw, read, and report on graphs, charts and tables.
11.02	Measure time, temperature, distance, capacity, and mass/weight.
11.03	Make, use and convert using both traditional and metric units.
11.04	Make estimations and approximations and judge the reasonableness of the result.
11.05	Convert from regular to 24 hour time.
11.06	Demonstrate ability to evaluate and draw conclusions.
11.07	Organize and communicate the results obtained by observation and experimentation.
11.08	Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions.
11.09	Calculate ratios.
12.0	Practice personal relation skills. The student will be able to:
12.01	Explore the meaning, organizational flow, and duties of pharmacy personnel.
12.02	Identify pharmacy organizations and their role in the profession to include student membership opportunities.
12.03	Identify the current trends and perspectives in the pharmacy practice.
12.04	Describe how team building can facilitate change within the pharmacy working environment.
12.05	Understand the importance of good interpersonal skills/soft skills in various pharmacy settings.
12.06	Explain ethical conduct in job-related activities.
12.07	Identify State of Florida requirements for obtaining and maintaining pharmacy technician registration as well as continuing education requirements for renewal.
12.08	Explore the importance of national certification and the continuing education requirements for renewal.
13.0	Identify pharmaceutical abbreviations and terminology as related to community pharmacy practice. The student will be able to:

CTE Standards and Benchmarks

13.01 Use pharmaceutical medical terminology.

13.02 Identify the major symbols and abbreviations used on prescriptions and state the meaning.

13.03 Describe safety strategies used to prevent medication errors due to pharmaceutical abbreviations and terminology.

**Florida Department of Education
Student Performance Standards**

Course Title: Pharmacy Technician 2
Course Number: 8418220
Course Credit: 1

Course Description:

This course builds on the knowledge and skill obtained in Pharmacy Technician 1, while also exploring the medical and legal considerations in pharmaceutical careers. Students will learn integral administrative procedures required of pharmacy technicians while applying knowledge of basic pharmaceutical chemistry and drug classification.

CTE Standards and Benchmarks	
14.0	Identify medical and legal considerations in various pharmacy setting. The student will be able to:
14.01	Articulate the significance of current national and Florida law and administrative rules as they relate to the scope of practice for the pharmacy technician.
14.02	Convey an understanding of patient counseling requirements pertaining to OBRA-90 versus MTM (Medication Therapy Management).
14.03	Convey an understanding of medical legal concepts as they relate to the scope of practice for the pharmacy technician.
14.04	Explain the legal requirements for accurate pharmacy documentation and recordkeeping.
14.05	Demonstrate an understanding of HIPAA in pharmacy practice pertaining to the ethical and legal considerations.
14.06	Convey an understanding of the patient's Bill of Rights as it relates to pharmacy practice.
14.07	Convey an understanding of pertinent laws governing pharmacy practice including but not limited to prescriptions, drug diversion, and use of E-FORCSE PDMP.
14.08	Differentiate between controlled substance schedules (CI-CV) and their applicable regulations.
14.09	Convey an understanding of the Florida Right to Know Act with respect to P-listed drugs in addition to hazardous materials, the utilization of safety data sheets, and hazardous communication symbols.
14.10	Identify and explain appropriate patient safety goals by applicable accrediting and regulatory organizations.
14.11	Understand and explain activities that may be performed by pharmacy technicians and those that must be performed by licensed pharmacists.
14.12	Explain the importance of technology and its current use in various pharmacy settings.
15.0	Perform clerical duties as related to Pharmacy Practice. The student will be able to:

CTE Standards and Benchmarks	
15.01	Demonstrate retail pharmacy dispensing processes.
15.02	Identify potential errors that may result in Quality Related Events and explain specific ways they can be prevented.
15.03	Utilize pharmacy software in processing pharmacy prescription data.
15.04	Identify and discuss applications of E-Prescribing and facsimile.
15.05	Utilize and apply interactive communication skills while gathering accurate information from patients and from other healthcare professionals
15.06	Identify communication modalities that can result in the transmission of inaccurate information, and explain specific ways to make improvements
15.07	Create, complete and maintain patient profiles including third party billing information.
15.08	Understand the processes of third party billing, resolving rejections, and obtaining prior authorizations.
15.09	Demonstrate professional communication skills within the scope of practice for the pharmacy technician.
15.10	Demonstrate the knowledge of systems used in maintaining pharmacy records.
15.11	Summarize, evaluate, and describe the role of the technician in quality assurance activities as related to various pharmacy practices.
16.0	Demonstrate knowledge of basic pharmaceutical chemistry and drug classification. The student will be able to:
16.01	Define the major classifications of pharmaceuticals.
16.02	Identify at least one official compendia of standards for quality and purity of drug monograph.
16.03	Utilize pharmacy reference manuals or web sites.
16.04	Demonstrate knowledge of trade and generic name equivalents.

**Florida Department of Education
Student Performance Standards**

Course Title: Pharmacy Technician 3
Course Number: 8418230
Course Credit: 1

Course Description:

This course builds on the knowledge and skills obtained in Pharmacy Technician 1 and 2. This course focuses on the importance of quality control when handling controlled substances and essential compounding techniques.

CTE Standards and Benchmarks	
17.0	Demonstrate knowledge of inventory management. The student will be able to:
17.01	Convey an understanding of industry standards in purchasing pharmaceutical supplies, including the Florida Pedigree Law.
17.02	Explain how to maintain a controlled substance inventory.
17.03	Apply knowledge of pharmacy business math to prescription pricing systems.
17.04	Maintain stock inventory, communicate shortages, and seek solutions to maintain continuity of patient care.
17.05	Understand the process of how to create electronic purchase orders.
17.06	Accurately perform the process of purchasing, receiving, special handling, storing, distributing and disposing of pharmaceutical supplies.
17.07	Convey an understanding of Investigational Drugs, Risk Evaluation and Mitigation Strategies (REMS), off label indications, and emerging drug therapy.
17.08	Convey an understanding of the inventory control process implemented by Title II of the Drug Quality and Security Act.
18.0	Initiate measurement and calculating techniques as it relates to United States Pharmacopeia (USP) 795 (non-sterile) compounding in pharmacy practice. The student will be able to:
18.01	Convey an understanding of United States Pharmacopeia (USP) 795 standards.
18.02	Convert measurements within the apothecary, avoirdupois, household and metric systems.
18.03	Perform common pharmaceutical calculations.
18.04	Identify and utilize common pharmaceutical weighing equipment.

CTE Standards and Benchmarks

18.05 Identify and utilize common pharmaceutical volume measurement equipment.

18.06 Accurately demonstrate the technique of preparing common pharmaceutical compounds.

18.07 Summarize, evaluate and describe the role of the technician in quality assurance activities as related to the preparation of non-sterile products.

Florida Department of Education
Student Performance Standards

Course Title: Pharmacy Technician 4
 Course Number: 8418240
 Course Credit: 1

Course Description:

This course builds on the knowledge and skills obtained in Pharmacy Technician 1, 2 and 3. This course focuses on pharmaceutical chemistry and its relationship with human physiology. Students will explore vital theories to better ensure patient safety and satisfaction.

CTE Standards and Benchmarks	
19.0	Demonstrate a basic knowledge and skills in areas of science relevant to pharmacy technicians including anatomy/physiology and pharmacology. The student will be able to:
19.01	Describe electrolyte balances and imbalances.
19.02	Relate the general sources, classes, indications, mechanisms of actions, routes of administration, side effects, and various types of drug interactions.
19.03	Demonstrate an understanding of common adult doses of medications, durations of common therapies, and respective contraindications, including the Beers Criteria.
19.04	Identify potential interactions that require a pharmacist’s interventions pertaining to food/alcohol, herbal, OTC, and/or prescription medications.

**Florida Department of Education
Student Performance Standards**

Course Title: Pharmacy Technician 5
Course Number: 8418250
Course Credit: 1

Course Description:

This course builds on the knowledge and skills obtained in Pharmacy Technician 1, 2, 3 and 4.

Clinical (externship) opportunity in the retail setting will enhance student’s understanding of community pharmacy practice, association management, and the issues impacting the retail and chain drug industry. This externship is designed to develop both professional and clinical skills to ensure success in the pharmacy field.

Students are expected to participate in a clinical pharmacy experience that provides opportunities for each student to build on acquired knowledge and skills, to practice and develop skills in selected procedures. Such procedures include, but are not limited to, dispensing, compounding, inventory handling and control, drug distribution, processing of third party claims, maintenance of patient profiles and interaction and communication with pharmacy staff.

CTE Standards and Benchmarks	
20.0	Prepare and deliver medications. The student will be able to:
20.01	Read and prepare medication orders correctly.
20.02	Demonstrate institutional pharmacy dispensing processes.
20.03	Compare all new orders with medications listed on profiles while noting any changes.
20.04	Utilize special precautions in the preparation of medications for pediatric patients.
20.05	Explain how to safely transport medications being aware of hazards, theft, legal implications of accidental loss, and other consequences.
20.06	Understand how to correctly fill and deliver medication.
20.07	Collect data from medication administration record.
20.08	Describe the use of automated medication dispensing equipment.
21.0	Repackage unit dose medications. The student will be able to:

CTE Standards and Benchmarks

21.01 Locate correct stock container.

21.02 Describe the use of unit dose packaging equipment.

21.03 Measure, count, and place individual dose in appropriate containers.

21.04 Understand precautions used when packaging unit dose hazardous drugs.

21.05 Record repackaged medication data correctly.

21.06 Summarize, evaluate and describe the role of the technician in quality assurance activities as related to repackaging unit dose medication.

**Florida Department of Education
Student Performance Standards**

Course Title: Pharmacy Technician 6
Course Number: 8418260
Course Credit: 1

Course Description:

This course builds on the knowledge and skills obtained in Pharmacy Technician 1, 2, 3, 4 and 5. Students will learn how to properly prepare sterile products for patients by considering common medical errors and applying detailed knowledge of quality control techniques, drug incompatibilities and the storage and disposal of controlled substances.

CTE Standards and Benchmarks	
22.0	Prepare United States Pharmacopeia (USP) 797 and USP 800 sterile products. The student will be able to:
22.01	Convey an understanding of United States Pharmacopeia (USP) 797 regulations.
22.02	Convey an understanding of United States Pharmacopeia (USP) 800 regulations.
22.03	Compare medication order with label on vial and check expiration date of product.
22.04	Calculate drug dosage for parenteral use.
22.05	Reconstitute parenteral medications.
22.06	Demonstrate aseptic technique to withdraw medication from stock vial, measure correct quantity as instructed, select and insert it into IV solution without error.
22.07	Demonstrate aseptic technique to withdraw medication from an ampule using filter needle/straw.
22.08	Prepare parenteral solutions using proper aseptic technique.
22.09	Understand the preparation of Total Parenteral Nutrition (TPN) solutions.
22.10	Understand the preparation of chemotherapeutic agents using proper safety techniques.
22.11	Understand the appropriate technique while using specialized equipment such as: laminar flow hoods, filters, pumps, automated compounders, and barrier isolator.
22.12	Place label on IV solution container and record appropriately.
22.13	Perform quality control check of completed product.

CTE Standards and Benchmarks	
22.14	Convey an understanding of the proper storage and disposal requirements of reconstituted and non-reconstituted IV solutions.
22.15	Convey an understanding of the proper storage and disposal of hazardous Drugs.
22.16	Summarize, evaluate and describe the role of the technician in quality assurance activities as related to the preparation of sterile products.

**Florida Department of Education
Student Performance Standards**

Course Title: Pharmacy Technician 7
Course Number: 8418270
Course Credit: 1

Course Description:

This course builds on the knowledge and skills obtained in Pharmacy Technician 1, 2, 3, 4, 5 and 6.

Clinical (externship) in the hospital setting will expand the student's knowledge of science and medicine as it relates to the professions associated with the practice of pharmacy in hospitals and family health centers. Students will interact with pharmacists and technicians and patients to provide services in all types of patient care settings including inpatient, outpatient and ambulatory care.

Students are expected to participate in a clinical pharmacy experience that provides opportunities for each student to build on acquired knowledge and skills, to practice and develop skills in selected procedures. Such procedures include, but are not limited to, dispensing, compounding, inventory handling and control, drug distribution, processing of third party claims, maintenance of patient profiles and interaction and communication with pharmacy staff.

Additional Information

Laboratory Activities

Laboratory investigations that include scientific inquiry, research, measurement, problem solving, emerging technologies, tools and equipment, as well as, experimental, quality, and safety procedures are an integral part of this career and technical program/course. Laboratory investigations benefit all students by developing an understanding of the complexity and ambiguity of empirical work, as well as the skills required to manage, operate, calibrate and troubleshoot equipment/tools used to make observations. Students understand measurement error; and have the skills to aggregate, interpret, and present the resulting data. Equipment and supplies should be provided to enhance hands-on experiences for students.

Clinical practicum experiences are an integral part of this program.

In addition, due to the clinical experiences students are engaged in through the program and to ensure the safety of both the students and the patients the recommended student to instructor ratio in the classroom is 20:1 and in the lab is 4:1.

Florida Standards for English Language Development (ELD)

English language learners communicate for social and instructional purposes within the school setting. ELD.K12.ELL.SI.1

English Language Development (ELD) Standards Special Notes:

Teachers are required to provide listening, speaking, reading and writing instruction that allows English language learners (ELL) to communicate for social and instructional purposes within the school setting. For the given level of English language proficiency and with visual, graphic, or interactive support, students will interact with grade level words, expressions, sentences and discourse to process or produce language necessary for academic success. The ELD standard should specify a relevant content area concept or topic of study chosen by curriculum developers and teachers which maximizes an ELL's need for communication and social skills. For additional information on the development and implementation of the ELD standards, please contact the Bureau of Student Achievement through Language Acquisition at sala@fldoe.org.

Special Notes

This program focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of the health care industry; planning, management, finance, technical and production skills, underlying principles of technology, labor issues, community issues and health, safety, and environmental issues.

This program meets the Department of Health's education requirements for HIV/AIDS, Domestic Violence and Prevention of Medical Errors. Although not a requirement for initial licensure, it is a requirement for renewal, therefore the instructor **may** provide a certificate for renewal purposes to the student verifying these requirements have been met.

If students in this program are seeking a licensure, certificate or registration through the Department of Health, please refer to 456.0635, F.S. for more information on disqualification for a license, certificate, or registration through the Department of Health.

It is recommended that program completers take National Pharmacy Technician Certification Exam offered by the Pharmacy Technician Certification Board, 2215 Constitution Ave. NW, Washington, DC 20037-2985, (202)-429-7576. This certification is offered year round on a continual basis.

Outcomes 01-16 are referred to as the Health Science Core and do not have to be completed if the student has previously completed the Core in another health occupations program at any level. The Core should be taken first in the program. Following the successful completion of the core, the student is eligible to take the National Health Care Foundation Skill Standards Assessment with instructor approval and the completion of a portfolio.

Career and Technical Student Organization (CTSO)

HOSA: Future Health Professionals and SkillsUSA are the co-curricular career and technical student organization providing leadership training and reinforcing specific career and technical skills. Career and Technical Student Organizations provide activities for students as an integral part of the instruction offered.

Cooperative Training – OJT

On-the-job training is appropriate but not required for this program. Whenever offered, the rules, guidelines, and requirements specified in the OJT framework apply.

Accommodations

Federal and state legislation requires the provision of accommodations for students with disabilities as identified on the secondary student's Individual Educational Plan (IEP) or 504 plan or postsecondary student's accommodations' plan to meet individual needs and ensure equal access. Accommodations change the way the student is instructed. Students with disabilities may need accommodations in such areas as instructional methods and materials, assignments and assessments, time demands and schedules, learning environment, assistive technology and special communication systems. Documentation of the accommodations requested and provided should be maintained in a confidential file.

In addition to accommodations, some secondary students with disabilities (students with an IEP served in Exceptional Student Education (ESE)) will need modifications to meet their needs. Modifications change the outcomes or what the student is expected to learn, e.g., modifying the curriculum of a secondary career and technical education course. Note: postsecondary curriculum and regulated secondary programs cannot be modified.

Some secondary students with disabilities (ESE) may need additional time (i.e., longer than the regular school year), to master the student performance standards associated with a regular course or a modified course. If needed, a student may enroll in the same career and technical course more than once. Documentation should be included in the IEP that clearly indicates that it is anticipated that the student may need an additional year to complete a Career and Technical Education (CTE) course. The student should work on different competencies and new applications of competencies each year toward completion of the CTE course. After achieving the competencies identified for the year, the student earns credit for the course. It is important to ensure that credits earned by students are reported accurately. The district's information system must be designed to accept multiple credits for the same course number for eligible students with disabilities.