# Scope & Sequence

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| Course Name: Practicum in Health Science/Extended Practicum in Health Science **TSDS PEIMS Code:** 13020505 (First Time Taken)  13020515 (Second Time Taken) | **Course Credit:** 3.0  **Course Requirements:** Grade Placement 11-12.  **Prerequisites:** Health Science Theory and Biology.  **Corequisites:** Practicum in Health Science. |
| **Course Description:** The Extended Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. | |
| **NOTE 1:** The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Health Science Career Cluster. This is a suggested scope and sequence for the course content. This content will work with any textbook, instructional materials or practicum experience. If locally adapted, make sure all TEKS are covered.  **NOTE 2:** Completion of skill sets may be demonstrated throughout the practicum. Therefore, content based on the TEKS does not have to be delivered sequentially. The major reason students take a practicum is to provide additional time on task for learning specialized skills. In most cases where the Extended Practicum is added to the Practicum, it is because the student is spending more than 15 hours per week at his/her training station (place of employment or internship).  **NOTE 3:** The information in this scope and sequence document does not describe detailed activities, because the activities will vary from student to student and training station to training station. The intent is that students incorporate and use previously learned knowledge and skills related to the career cluster. | |

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| **Practicum Plan** | **TEKS Covered**  **130.233. (c) Knowledge and skills.** |
| **Section 1: Pre-Practicum**  The TEKS in Section 1 reflect the information and knowledge a student should be able to demonstrate before he or she is assigned a practicum. Demonstrating both verbal and non-verbal communication skills and the ability to cooperate, contribute, and collaborate as a member of a team are valuable employability skills. Problem-solving skills and the ability to understand and use medical terminology along with other skills are taught in prerequisite classes and are applied in the practicum class. Employers may require additional requirements and skills depending on the type and difficulty of the practicum assigned. | (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:  (A) demonstrate verbal and non-verbal communication in a clear, concise, and effective manner; and  (B) exhibit the ability to cooperate, contribute, and collaborate as a member of a team.  (2) The student applies mathematics, science, English language arts, and social sciences in health science. The student is expected to:  (A) interpret data from various sources in formulating conclusions;  (B) compile information from a variety of sources to create a technical report;  (C) plan, prepare, and deliver a presentation;  (D) examine the environmental factors that affect homeostasis;  (E) relate anatomical structure to physiological functions; and  (F) distinguish atypical anatomy and physiology in the human body systems.  (4) The student implements the knowledge and skills of a health care professional necessary to acquire and retain employment. The student is expected to:  (A) demonstrate proficiency in medical terminology and skills related to the health care of an individual;  (B) develop new problem-solving strategies based on previous knowledge and skills; and  (C) evaluate performance for continuous improvement and advancement in health care. |
| **Section 2: Practicum**  The practicum is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Health Science Career Cluster. The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.  A supervisor may use the TEKS to formulate a check list of skills a student must demonstrate in order to successfully pass the practicum. A list might also be provided to the employer/job supervisor so that the students’ progress can be accurately charted. A student must demonstrate ethical and legal behavior, recognize and obey facility policy and procedure, understand and employ safety and regulatory standards including infection control and the handling of hazardous materials. Additional requirements might be added to the list to reflect the needs of a particular practicum experience. | (5) The student employs ethical behavior standards and legal responsibilities. The student is expected to:  (A) identify individual ethical and legal behavior standards according to professional regulatory agencies; and  (B) research case studies related to unethical behavior in the health care industry.  (3) The student uses verbal and non-verbal communication skills. The student is expected to:  (A) accurately report information according to facility policies and procedures;  (B) demonstrate therapeutic communication skills to provide quality care; and  (C) employ therapeutic measures to minimize communication barriers.  (6) The student employs a safe environment to prevent hazardous situations. The student is expected to:  (A) integrate regulatory standards such as standard precautions and safe patient handling;  (B) evaluate hazardous materials according to the material safety data sheets; and  (C) apply principles of infection control and body mechanics in all aspects of the health care industry.  (7) The student explores the knowledge and skill levels necessary for advancing in the health science professions. The student is expected to:  (A) identify knowledge and skills that are transferable among health science professions; and  (B) research career pathways pertaining to the health care industry.  (8) The student implements skills in monitoring individual health status during therapeutic or diagnostic procedures. The student is expected to:  (A) identify care indicators of health status; and  (B) record health status according to facility protocol. |
| **Section 3: Post-Practicum**  At the conclusion of the practicum a student is expected to reflect upon the experience and draw some conclusions as to their importance. Keeping a journal, writing a final summary paper, or doing a presentation are some possible ways a student may be asked to demonstrate this reflection. Students will also be encouraged to participate in more extended learning experiences, such as with community service, career and technical student organizations, or professional organizations. Students will create and present a plan of action targeting the career and technical student organization's community service goal to their supervising instructor as a course culminating activity. | (9) The student recognizes the importance of participation in extended learning experiences. The student is expected to:  (A) participate in extended learning experiences such as community service, career and technical student organizations, and professional organizations; and  (B) create a plan of action targeting the career and technical student organization's community service goal. |

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| **Extended Practicum Plan** | **TEKS Covered**  **130.234. (c) Knowledge and Skills** |

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| **Section 1: Pre-Practicum**  The practicum is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Health Science Career Cluster. The Extended Practicum in Health Science is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.  Prior to beginning practicums, students will review and discuss professional standards and employers’ expectations, personal and workplace safety and emergency procedures, effective problem solving strategies, ethical conduct, teamwork, and conflict-management skills. Students will also discuss the technical, academic, and medical terminology and skills required for the practicum, and put into place strategies for mastering any/all skills necessary to manage and perform work/practicum responsibilities.  Also prior to beginning their practicum experiences, students will agree to adhere to policies and procedures, demonstrate positive work attitudes and behaviors, including appreciation for diversity, to make ethical decisions, to apply proper safety techniques, and to comply with all applicable rules, laws, and regulations in a consistent manner. Students will also review and discuss professional communications strategies and practices for effective working relationships, such as observing and interpreting verbal and nonverbal cues and behaviors to enhance communication, and applying active listening skills to obtain and clarify information.  Students, supervising instructors, and practicum experience supervisors will read and review locally created practicum checklist(s). Parent/guardians will also be provided with a copy. Checklist(s) will include all relevant TEKS along with rubrics for supervisor evaluations and student self-evaluations. Students will read, discuss, and demonstrate an understanding of the provided checklist and rubric criteria before beginning their practicum experiences. | (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:  (A) participate in a paid or unpaid, laboratory- or work-based application of previously studied knowledge and skills related to health science;  (B) participate in training, education, or preparation for licensure, certification, or other relevant credentials to prepare for employment;  (C) demonstrate professional standards and personal qualities needed to be employable such as self-discipline, positive attitude, integrity, commitment, leadership, appreciation for diversity, customer service, and adaptability with increased fluency;  (D) employ teamwork and conflict-management skills with increased fluency to achieve collective goals; and  (E) employ planning and time-management skills and tools with increased fluency to enhance results and complete work tasks.  (2) The student applies professional communications strategies. The student is expected to:  (A) demonstrate verbal and non-verbal communication consistently in a clear, concise, and effective manner;  (B) report information according to facility policies and procedures accurately;  (C) demonstrate therapeutic communication skills with increased fluency to provide quality care;  (D) analyze, interpret, and effectively communicate information, data, and observations;  (E) apply active listening skills to obtain and clarify information; and  (F) observe and interpret verbal and nonverbal cues and behaviors to enhance communication.  (3) The student implements advanced problem-solving methods. The student is expected to employ critical-thinking skills with increased fluency both independently and in groups to solve problems and make decisions.  (4) The student understands and applies proper safety techniques in the workplace to prevent hazardous situations. The student is expected to:  (A) demonstrate an understanding of and follow workplace safety rules and regulations;  (B) implement regulatory standards such as standard precautions and safe patient handling with increased fluency;  (C) evaluate hazardous materials according to the material safety data sheets in a consistent manner; and  (D) apply principles of infection control and body mechanics in all aspects of the health care industry.  (5) The student understands the professional, ethical, and legal responsibilities in health science. The student is expected to:  (A) demonstrate a positive, productive work ethic by performing assigned tasks as directed;  (B) implement individual ethical and legal behavior standards according to professional regulatory agencies;  (C) show integrity by choosing the ethical course of action when making decisions; and  (D) comply with all applicable rules, laws, and regulations in a consistent manner.  (6) The student implements the knowledge and skills of a health care professional necessary to acquire and retain employment. The student is expected to demonstrate proficiency in medical terminology and skills related to the health care of an individual. |
| **Section 2: TEKS Checklist Components: Extended Practicum in Health Science**  Students, parents/guardians, and instructional/workplace supervisors will review, understand, and agree to a checklist of practicum objectives. Checklists may be locally adapted/modified, but all corresponding TEKS Checklist Components must be addressed. | (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:  (A) participate in a paid or unpaid, laboratory- or work-based application of previously studied knowledge and skills related to health science;  (B) participate in training, education, or preparation for licensure, certification, or other relevant credentials to prepare for employment;  (C) demonstrate professional standards and personal qualities needed to be employable such as self-discipline, positive attitude, integrity, commitment, leadership, appreciation for diversity, customer service, and adaptability with increased fluency;  (D) employ teamwork and conflict-management skills with increased fluency to achieve collective goals; and  (E) employ planning and time-management skills and tools with increased fluency to enhance results and complete work tasks.  (2) The student applies professional communications strategies. The student is expected to:  (A) demonstrate verbal and non-verbal communication consistently in a clear, concise, and effective manner;  (B) report information according to facility policies and procedures accurately;  (C) demonstrate therapeutic communication skills with increased fluency to provide quality care;  (D) analyze, interpret, and effectively communicate information, data, and observations;  (E) apply active listening skills to obtain and clarify information; and  (F) observe and interpret verbal and nonverbal cues and behaviors to enhance communication.  (3) The student implements advanced problem-solving methods. The student is expected to employ critical-thinking skills with increased fluency both independently and in groups to solve problems and make decisions.  (4) The student understands and applies proper safety techniques in the workplace to prevent hazardous situations. The student is expected to:  (A) demonstrate an understanding of and follow workplace safety rules and regulations;  (B) implement regulatory standards such as standard precautions and safe patient handling with increased fluency;  (C) evaluate hazardous materials according to the material safety data sheets in a consistent manner; and  (D) apply principles of infection control and body mechanics in all aspects of the health care industry.  (5) The student understands the professional, ethical, and legal responsibilities in health science. The student is expected to:  (A) demonstrate a positive, productive work ethic by performing assigned tasks as directed;  (B) implement individual ethical and legal behavior standards according to professional regulatory agencies;  (C) show integrity by choosing the ethical course of action when making decisions; and  (D) comply with all applicable rules, laws, and regulations in a consistent manner.  (6) The student implements the knowledge and skills of a health care professional necessary to acquire and retain employment. The student is expected to demonstrate proficiency in medical terminology and skills related to the health care of an individual.  (7) The student participates in a supervised health science experience. The student is expected to:  (A) conduct, document, and evaluate learning activities in a supervised health science experience;  (B) develop advanced technical knowledge and skills related to a personal occupational objective;  (C) evaluate strengths and weaknesses in technical skill proficiency; and  (D) collect representative work samples. |
| **Section 3: Critical Thinking and Problem-Solving: Practicum Check-Ins**  Students will discuss and demonstrate critical-thinking and problem-solving skills as they participate in check-in(s) with supervisors throughout their practicum experiences. Students will analyze and evaluate their practicum experiences as they describe how they have applied critical-thinking and problem-solving skills as well as interpersonal skills independently and in groups to solve problems they may have encountered or may still encounter. Students will also be encouraged to discuss and predict what other personal qualities and skills will be necessary for a successful practicum experience as well as a successful career in a health science field.  During these check-ins with supervising instructors, students will also discuss and self-evaluate their practicum check list progress and practicum documentation as well as any questions or problems they may have encountered. | (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:  (C) demonstrate professional standards and personal qualities needed to be employable such as self-discipline, positive attitude, integrity, commitment, leadership, appreciation for diversity, customer service, and adaptability with increased fluency.  (3) The student implements advanced problem-solving methods. The student is expected to employ critical-thinking skills with increased fluency both independently and in groups to solve problems and make decisions.  (7) The student participates in a supervised health science experience. The student is expected to:  (A) conduct, document, and evaluate learning activities in a supervised health science experience. |
| **Section 4: Practicum Culmination**  At the conclusion of the practicum, students will reflect upon the experience and draw some conclusions as to their importance. Students will also use appropriate technology and/or assigned materials to review and self-evaluate practicum learning activities, as well as their own skills, strengths and weaknesses in technical skill proficiency, personal qualities, training, education, and/or preparation for personal occupational objective licensure, certification, and/or other relevant credentials. Students will discuss and present their reflections, evaluative findings, practicum documentation, and representative work samples/experiences to their supervising instructor. | (7) The student participates in a supervised health science experience. The student is expected to:  (A) conduct, document, and evaluate learning activities in a supervised health science experience;  (B) develop advanced technical knowledge and skills related to a personal occupational objective;  (C) evaluate strengths and weaknesses in technical skill proficiency; and  (D) collect representative work samples. |