Boone Career & Technical Center
Health Science Education Program

PROGRAM: Health Science Education (HSE)
COURSES: Foundations of Health Science (Course # 0711)
Advanced Principles of Health Science (Course #0715)
INSTRUCTOR: Angela Weikle, MLT (AMT)
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COURSE DESCRIPTIONS:
The first-year health science student will receive instruction on basic and advanced medical terminology, growth and development, nutrition, health maintenance practices, healthcare safety, environmental safety, ethical and legal issues, anatomy & physiology, medical math, infection control, and CPR & First Aid. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students will develop basic technical skills required for all health career specialties including patient privacy, communication, teamwork and occupational safety. Upon successful completion of the junior year coursework, students will have the opportunity to obtain certifications in Bloodborne Pathogens, CPR, First Aid, HIPAA/Data Privacy and Healthcare Safety.

TEXTS:
Introduction to Health Science Technology, Louise Simmers
Dean-Vaughn Medical Terminology 350, DCM, Inc.
American Red Cross First Aid/CPR
American Heart Association BLS for Health Care Providers
Introduction to Medical Terminology, Ehrlich & Carol L. Schroeder with CD
The Complete Textbook of Phlebotomy, 3rd Edition, Lynn B. Hoeltke
The Art and Science of Phlebotomy, ASPT Student Manual
Electrocardiography Manual, ASPT Student Manual
Electrocardiography for Health Care Personnel 2nd Ed, Kathryn A. Booth

TEACHING METHODS:

Lectures and note-taking	Homework assignments
Demonstrations	Teamwork assignments
Technical skill practice	Technical writing assignments
Projects	Written exams and quizzes
Clinical Portfolio	Community Service

BASIC COURSE REQUIREMENTS:

1. Students will need to bring the following items to class every day: 3-ring binder, paper, pencils and black or blue ink pens, and the assigned textbook.
2. **Immunization Records, including Hepatitis B Vaccinations.** An up-to-date immunization record must be on file with the instructor before the student will be approved for clinical rotations. (Instructor will verify this through WEVIS)
3. Students must obtain a current **First Aid** and **CPR for the Professional Rescuer** or **BLS for the Health Care Provider Certifications** for clinical rotations.(This certification will be offered as a part of the curriculum)
4. **All students must pass a drug screening test before entering the health care facility**. Students who fail the drug test or refuse to undergo drug screening will be removed from the program.

GRADING AND EVALUATION:

1. Daily attendance and participation in class activities are critical to your success in this course! Attendance and participation will be given a numerical grade. Students who do not complete the required number of classroom and/or clinical hours will not be eligible to attain certifications!
2. Examinations, quizzes, classroom and homework assignments will be given a numerical grade.
3. Participation in skills labs is required. Students must demonstrate competence in assigned skills and will receive a numerical grade upon completion of each skill.
4. Incomplete work will not be accepted. Late work will be lowered by one letter grade for each day that the assignment is late.
5. FINAL EXAMINATION: An End-of-Course Exam will be given at the end of each semester.
6. Instructional support (IS) tutoring will be provided to any student who needs assistance. There is no cost for this service. Please contact me to schedule time for tutoring.
7. When the instructor observes cheating on the part of the student, the case shall be handled in accordance with the following procedures:
    a. The instructor has the authority to give the student the grade of "F" on the assignment involved in the cheating or a grade of "F" in the course.
    b. The instructor will submit to the principal, within three (3) days from the time the cheating occurred, a written report, along with the physical evidence, stating the facts of the case and the action taken by the instructor.
8. The instructor has the authority to make beneficial changes in assignments and point values for the assignments as situations throughout the course may change.

GRADING SCALE: (Students enrolled in the Health Science Education Program must maintain an 80% GPA to continue in the program.)

90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

AWARDS AND HONORS:

One student will be chosen as outstanding student each nine weeks. Outstanding students will receive a certificate for their portfolio and a gift certificate. The criteria for selection are:

Quality and Quantity of Work	Attendance
Leadership Skills	Attitude & Cooperation
Skills Performance	Participation in HOSA
Dependability	Community Service

Outstanding students will also be invited to become a member of the ***National Technical Honor Society***. Students are recommended by the career & technical instructor. Criteria for nomination:

CTE GPA of 3.5 or better	Academic GPA of 3.0 or better
Exemplary Conduct	Exemplary Attendance
Participation in HOSA	Community Service

SPECIAL NEEDS:

If you need accommodations because of a disability, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please inform me immediately.

RESPECT FOR OTHERS:

We understand that our students represent a rich variety of backgrounds and perspectives. We are committed to providing an atmosphere for learning that respects diversity. While working together to build this community we ask all students to:

- Share their unique experiences, values and beliefs
- Be open to the views of others
- Honor the uniqueness of their colleagues
- Appreciate the opportunity that we have to learn from each other
- Value each other's opinions and communicate in a respectful manner
- Keep confidential discussions of a personal (or professional) nature
- Use this opportunity together to discuss ways in which we can create an inclusive environment in this course and throughout Boone County.

TENTATIVE SCHEDULE:

	Assignments	
WEEK 1	Orientation to Health Science Fire and Lab Safety, Drills HOSA Leadership Activities	August
Week 2	HOSA/ Parliamentary Procedure Body Mechanics/ Fire & Lab Safety Patient Safety & Mobility	August
Week 3	Medical Terminology Lesson 1 Infection Control: Bloodborne Pathogens Handwashing & Chain of Infection	Sept
Week 4	Medical Terminology Lesson 2 Infection Control: Standard Precautions Introduction to Med Term/Body Structures	Sept
Week 5	Medical Terminology Lesson 3 Human Body in Health & Disease HOSA Service Project Proposal (Tech Writing 1)	Sept.
Week 6	Medical Terminology Lesson 4 Human Body in Health & Disease HOSA Service Project Development	Sept.
Week 7	Medical Terminology Lesson 5 CPR- Health Care Provider Course HOSA Meeting: Program of Work/Leadership	Sept.
Week 8	Medical Terminology Lesson 6 American Red Cross Standard First Aid HOSA Leadership/Team-building	Oct.
Week 9	Medical Terminology Lesson 7 American Red Cross First Aid HOSA Leadership/Competitive Events	Oct.
Week 10	Medical Terminology Lesson 8 Human Growth & Development Life Stages: Group Project/Video Presentation	Oct.
Week 11	Medical Terminology Lesson 9 Growth & Development: Maslow, Death/Dying HOSA Service Project Update	Oct.
Week 12	Medical Terminology Lesson 10 Nutrition: Nutrients, Food Groups HOSA Week: Careers, Service, Partner Recog	Nov.
Week 13	Medical Terminology Lesson 11 Nutrition: Therapeutic Diets Healthful Restaurant Proposal: Tech Writing 2	Nov.
Week 14	Medical Terminology Lesson 12 Health Maintenance Practices Digital Presentations: Alternative Health Practices	Nov.

Week 15	Medical Terminology Lesson 13 Healthcare Delivery Systems Universal Health Care Model: Tech Writing 3	Dec.
Week 16	Medical Terminology Lesson 14 Effective/Therapeutic Communications HOSA Competitive Events/Team Building	Dec.
Week 17	Medical Abbreviations The Skeletal System: Structures, Functions, Pathology, Diagnosis & Treatment	Dec.
Week 18	Professional Qualities- Healthcare Worker The Muscular System: Structures, Functions, Pathology, Diagnosis & Treatment	Jan.
Week 19	Dental Careers Cardiovascular System Structures & Function Measuring Pulse & Apical Pulse, Heart Sounds	Jan.
Week 20	Diagnostic Service Careers Cardiovascular System Pathology, Diagnosis, Tx Measuring & Recording Blood Pressure	Jan.
Week 21	Emergency Medical Services Lymphatic System Structure/Function Pathology, Diagnosis & Treatment	Jan.
Week 22	Health Information/ Communication Services Respiratory System Structure/Function, Path, Dx, Tx. Measuring Respirations, Lung Sounds	Feb.
Week 23	Hospital/Health Care Facility Services Digestive System Structure/Function, Pathology, Diagnosis & Treatment	Feb.
Week 24	Medical Careers Urinary System Structure/Function, Pathology, Diagnosis & Treatment	Feb.
Week 25	Mental and Social Services Nervous System Structure/Function, Pathology, Diagnosis & Treatment	Feb.
Week 26	Mortuary Careers Special Senses Structure/Function, Pathology, Diagnosis & Treatment	March
Week 27	Nursing Careers Integumentary Structure/Function, Pathology, Dx & Tx. Measuring & Recording Temperature	March
Week 28	Nutrition and Dietary Services Endocrine System Structure/Function, Pathology, Diagnosis & Treatment	March

Week 29	Therapeutic Services Reproductive System Structure/Function, Pathology, Diagnosis & Treatment	March
Week 30	Veterinary Services Diagnostic Procedures & Pharmacology HOSA Teambuilding and Service Project Proposal	March
Week 31	Vision Services Portfolio Element: Career Analysis (Tech Writing 4) HOSA Service Project 2 Development	April
Week 32	Legal Responsibilities Ethical Issues and Professional Standards HOSA Teambuilding: Ethical Debates	April
Week 33	Cultural Diversity Medical Math/WIN Training HOSA Service Project 2	April
Week 34	Patient/Customer Service Medical Math/WIN Training HOSA Service Project 2	May
Week 35	Medical Math/WIN Training College/Employment Goal Development	May
Week 36	Medical Math/WIN Training Introduction to Clinical Portfolio	May
Week 37	FINAL Exams Scholarship Essay Templates	May
Week 38	Introduction to Senior Course Requirements Student Surveys: Goals, Program Evaluation	June