

HEALTH SCIENCES PROGRAM SYLLABUS

Year 1

Huron Area Technical Center
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PROGRAM DESCRIPTION

The Health Sciences cluster provides opportunities for students to experience and perfect skills required of today's healthcare industry. Health care requires a flexible, multi-skilled workforce, capable of performing as a team, being adaptable to frequent change and able to transfer skills to new environments. Students learn medical terminology, first aid & basic life support, communication & employability skills, safety systems, infection control, anatomy & physiology, nutrition, teamwork, disease entities, ethics and legal matters. In the first year, students are placed on 50 hours of non-paid work experience at a healthcare facility. This will help the student decide what aspect of healthcare he/she likes the most.

In the second year of the program, students will specialize in one of the following areas of interest:

- Dental Assisting
- Pharmacy Technician
- Certified Nurse Assistant (CNA)
- Physical Therapy Aide
- Personal Trainer/Health Fitness

HOSA

The students will have an opportunity to become members of Health Occupations Students of America (HOSA). This is an organization that gives students the opportunity to learn health care skills of their choosing over and above what's offered in class as well as leadership skills. Students are strongly encouraged to participate in HOSA in order to better develop their leadership abilities.

COURSE FEE

HOSA membership \$30

COURSE TEXTBOOKS

First year: Simmers DHO Health Science and Dean Vaughn Medical Terminology

HEALTH SCIENCES CAREER CLUSTERS

Health Sciences students will find their area/s of interest among the hundreds of healthcare provider options that fall within one of the health sciences career clusters. The clusters are broadly defined according to their functions. The clusters are:

- Therapeutic Services
- Diagnostic Services
- Health Informatics

- Support Services
- Biotechnology Research and Development

NATIONAL HEALTH CARE CLUSTER FOUNDATION STANDARDS

In recognition of the need for a highly skilled health care workforce, the U.S. Department of Education funded the National Health Care Skill Standards Project (NHCSSP). The NHCSS reflect the critical elements of the knowledge and skills health care workers need in order to deliver quality healthcare. The National Health Care Cluster Foundation Standards (based on National Health Care Skill Standards) that first year students complete are: Academic Foundation, Communications, Systems Theory, Employability Skills, Legal Responsibilities, Ethics, Safety Practices, Teamwork, Health Maintenance Practices, Technical Skills and Information Technology Applications.

COURSE SEGMENTS:

Segment 1: Anatomy and Physiology
 Segment 2: Legal Responsibilities
 Segment 3: Infection Control
 Segment 4: Client Status
 Segment 5: Workplace Safety
 Segment 6: Health Care Delivery Systems
 Segment 7: Ethics
 Segment 8: Clinical Skills
 Segment 9: Wellness
 Segment 10: Healthcare Communications and Terminology
 Segment 11: Health Informatics and Technology
 Segment 12: Career Readiness

Career Skills are also included in the Health Sciences program content. It is the HATC vision that all students will leave with the following career skills:

- Personal Management Skills
- Specific Occupational Skills
- Technology Skills
- Employability and Career Development Skills
- Systems Thinking/Problem Solving Skills
- Lifelong Learning Skills
- Workplace Communication Skills

The **second year** students, **after having mastered all of the first year curriculum**, will continue with:

- National Health Sciences Cluster Standards of Anatomy & Physiology
- Medical Terminology
- Learn Occupational-Specific Information and Skills
- Re-Certify in CPR
- Practice Career Skills
- Enhance their Career Focus
- Work-Based Learning or On the Job Training opportunities at one or more health care facilities

All first year seniors having a B- or better grade and have attendance at or above Industry Standard (Page 6 Student Parent/Guardian Handbook) will have the option of completing the Nursing Assistant Program at the end of the second semester.

All second year students having a B- or better grade and have attendance at or above Industry Standard (Page 6 Student Parent/Guardian Handbook- 10 absences per year) will have the option of completing the Nursing Assistant Program, Pharmacy Technician, Physical Therapy Aide, Dental Assistant, or Personal Trainer/Health Fitness at no cost the first semester of their senior year as well as complete clinical skills related to the program of choice and work based learning. If a student does not meet the industry standard for grades and attendance, they will not be allowed to complete clinical skills or work based learning. Additionally, the students must sign a contract related to program of choice. If they do not for whatever reason complete the curriculum, clinical, or work based learning at or above industry standard, they will be expected to reimburse the Huron Area Technical Center for the course per the contract.

All seniors are required to complete the Medical Terminology course offered in Health Sciences.

Also, typically each year, the program is involved in a community service project of which would include both first and second year students.

The Health Sciences Curriculum is individualized and performance-based. "Topic Areas" are broad areas of study. "Knowledge and Skill Statements" are measurable performances, which are then broken down by task-detailing into "Performance Elements" and "Measurement Criteria." When all Measurement Criteria have been met with competence and signed off by the instructor, a task is complete and a grade is earned.

For example:

- **A "Topic Area"** - "Communication"
- **A "Knowledge & Skill Statement"** - "Will know the various methods of giving and obtaining information and communicate effectively, both verbally and nonverbally."
- **A "Performance Element"** - "Explained how subjective and objective information are different."
- **A "Measurement Criteria"** - "Identified subjective verses objective information when given a scenario."

A vast assortment of texts, reference, resources, and input from healthcare professionals such as the advisory committee, anatomical models and audio-visuals are integrated into instructional content. Learning styles are taken into account to enhance the learning experiences of students.

Students are expected to be organized, efficient and use time management. They are also expected to follow the "Program Applications" (rules/regs), Huron Area Technical Center rules as described in the documents such as the "Student Handbook" that each student receives at the beginning of each school year, as well as, clinical and mentoring workplace rules and regulations.

Student Assessment

Students are not only evaluated on tasks in writing, such as in testing theory, etc. but are also assessed on the level to which they perform tasks – how they apply what they have learned.

It is becoming increasingly true that the healthcare service areas, even at the entry level, require a relatively moderate level of ability in order to achieve competence, to say the least. We deal with human lives; therefore, there is a very narrow margin for error. So, expectations of the Health Sciences students must remain high. Students are expected to take the responsibility for being prepared to work in class every day, which includes proper apparel, supplies and positive attitudes. Students participate in all phases of the program including clean up. The Health Sciences program is a community of learners where we support each other as team players in the learning process.

ATTENDANCE

Regular attendance is important for career technical education. Excessive absences can lead to falling behind due to the hands on skills done in class. Poor attendance will affect a student's grade due to the inability to make up daily labs or assignments. Students are considered absent **unless** the home school has excused the student for home school functions. If a student knows of a day they will be absent, they are to notify the instructor ahead of time to obtain the assignments prior to the absence. All class communication will be via Remind.

MAKE-UP WORK

The student will be allowed the same number of days to complete make up assignments as the number of days that he/she was absent. It is the student's responsibility to contact the instructor on the **first day** of returning to school at the **beginning** of class regarding makeup work that is to be completed. Make-up work will not be accepted if the student does not take initiative to obtain makeup work on the first day of return.

If a student misses a test due to absence, the student will be responsible for making that test up on the day of their return.

LATE WORK

Late assignments are lowered 30% each day they are late.

GRADING CRITERIA

Your class grade will be calculated according to the following breakdown:

60% **Academic performance:** combination of workbook, tests, assignments and projects

40% **Daily work ethic:** attendance, personal management, positive attitude, initiative/effort, cooperation, time management, safety practices, following directions

CHEATING

Students who are caught cheating will receive 0 points on the test/assignment and 0 points for their daily work ethic grade that day. See the HATC Student Handbook for Student Code of Conduct/Positive Behavior Support.

CELL PHONES

Cell phone use during class is strictly prohibited unless indicated by the instructor or during the designated break time. All students will put their cell phones in a designated area. If the phone is visible anywhere in the classroom other than the designated area or if the student is using the phone it's considered the first offense. The policy for these offences are as follows:

1st Offense - Device is taken and returned at the end of the class period

2nd Offense - Device is held for parent's pick up at HATC

WORK BASED LEARNING

The first year students will be furthering their studies through a clinical experience at McLaren Thumb Region Community during the second semester. Please note that *there will be no facial piercings or artificial nails allowed during the clinical experience.*

REQUIREMENTS FOR CLINICAL:

- Mastery of all program requirements
- Immunization record
- Hepatitis B Immunization- Series of 3 injections or parent signed waiver
- Scrubs (Navy Color) for all students
- Soft-Soled Clean Shoes (Cannot be toeless)
- Watch with a Second Hand or Digital
- Transportation if attending clinical site that is not in Bad Axe

CREDIT AVAILABLE

- Elective high school credit is recommended by HATC but awarded by sending school district.
- Articulation credit or direct credit options are available through Heath Science. We offer articulation agreements with Delta College, Mid Michigan College, and Ferris University. College dual enrollment options are available for ALH 100 Medical Terminology and HED 115 Stress Management through Mid Michigan College.

Grading Scale

A	=	95-100%
A-	=	90-94.9
B+	=	87-89.9
B	=	83-86.9
B-	=	80-82.9
C+	=	77-79.9
C	=	73-76.9
C-	=	70-72.9
D+	=	67-69.9

D	=	63-66.9
D-	=	60-62.9
E	=	0-59.9