

Wayne Region 25

Grosse Ile Township Schools

Course Name:	Health Science
Course Number:	51.000
Course Credit:	2-3
School Year:	2008-2009
Instructor:	Regional Instructors

Course Description: This one-year course offered in various Region 25 Health Science Programs will provide students with the basic theory and clinical experience for entry-level positions in a physician's office, hospital or outpatient clinic. Students will participate in classroom learning consisting of both theory and hands-on demonstrations and practice, as well as have the opportunity to participate in internship/job shadow experiences with local health care professionals. The curriculum provided allows students to explore their interest in many fields within the medical profession, including, but not limited to: nursing, medicine, advanced practice nursing, physician's assistant, laboratory science, emergency medical technology, radiology, surgical technology, and nuclear medicine.

Course Objectives:

Students will learn the basic principles of Anatomy and Physiology, including the following systems: Respiratory, Cardiovascular, Gastrointestinal, Skeletal, Muscular, Nervous, Integumentary, Excretory, Endocrine, Special Senses and Reproductive.

Students will learn and practice basic clinical procedures. They will be able to understand and assist with patient flow, patient record keeping, documentation and patient preparation.

Students will learn how to assist a health care provider with basic medical and surgical procedures. This includes providing for patient safety, comfort and confidentiality.

Students will learn basic medical law and ethics. Medical terminology will be introduced throughout the curriculum.

Students will learn introductory pharmacology and medication administration procedures, including mathematical calculations.

Students will receive hands-on clinical training and didactic learning in a variety of clinical arenas.

First Aid and CPR are covered in depth in order for students to become certified through an accrediting agency.

Student Competencies: Program competencies will vary. Listed below are the competencies required by the core curriculum.

1. Infection Control/Safety
2. Hand washing
3. Introduction to Medical Law and Ethics
4. Medical Terminology
5. Introduction to Anatomy and Physiology
6. Introduction to basic Pathophysiology
7. Vital Signs
8. Employability Skills
9. Patient Height and Weight
10. First Aid
11. CPR certification
12. Work based learning
13. Communication Skills
14. Health Care Delivery Systems
15. Health Care Career Exploration
16. Cultural Diversity
17. Health Maintenance Practices
18. Mathematics for Health Professionals

Required Text: Varies by school program.
Examples - Medical Assisting: Administrative and Clinical Competencies, 5th ed., Kier, L., Wise, B. & Krebs, C.; Delmar, 2003
Diversified Health Occupations, 6th ed., Simmers, L.; Delmar, 2004

References & Other Resources: Varies by school program.

Course Advisory Committee: Varies by school program.

Class Assignments:

- Research papers and presentations related to medical topics
- Collaborative group work
- Powerpoint presentations
- Hands-on demonstrations
- Reading assignments from textbooks and supplemental materials
- Concept mapping
- Debates
- Skills practice

Final Exam: Varies by school program and school district policy.

For example –

There will be a final exam for each semester, counting as 20% of the total semester grade. Exams cover material from all units studied in that semester and consist of true/false, multiple choice, diagram, short answer, and essay components.

Class Policies: Varies by school program and school district policy.

For example –

HOMEWORK/CLASSWORK/TESTS: Homework will be assigned at least once a week. Students are expected to turn in homework assignments on time (at the beginning of the hour) and in the proper location. No exceptions will be made. All assignments should be free from spelling errors and written in complete sentences. Only black ink will be accepted on any assignment turned in for credit. Failure to complete an assignment by the due date will result in a grade of zero "0". Cheating on any assignment or test, including plagiarism, will result in a grade of zero "0", and a disciplinary referral.

MAKE-UP WORK: Students are expected to attend class regularly. The district policy regarding make-up work after an EXCUSED absence will be followed. Students are responsible to inquire about missed work and make-up tests. Any work/test not made up in the allotted time will result in a grade of "0". There will be no make-up allowed for unexcused absences. Late work will NEVER be

accepted. Homework due dates and exam schedules are always given well ahead of time and so an absence during the time frame between when the assignment is given and when it is due will not allow for an extension of time on the assignment. If a test is missed, the student will need to make arrangements to make up the test **ON THEIR OWN TIME**. Students are required to schedule the test on the day they return from an absence after a test is missed. Failure to do so will result in a grade of zero on the test. Make-ups will be available after school.

EQUIPMENT/SUPPLIES: Students must come to class prepared to work. Each student will be issued 2 - black pens, 1 - #2 pencil, 1- red pen a folder for classroom use and a folder for home use. I would like students to obtain a 4-5" loose-leaf binder with dividers, a 2" binder with sheet protectors and dividers (for use as a portfolio), a watch with a second hand and a spiral bound notebook for note-taking – this is not mandatory, but requested to assist students to keep their materials organized. Any other medical equipment (stethoscopes, Blood Pressure cuffs...) is provided in class. Students are required to bring the above materials to class **EVERY DAY!** If these materials are lost, the student is responsible for replacing them. Failure to bring all required materials to class will result in loss of points on the daily point sheet. A mailbox will be assigned to each student so that materials can be stored in the classroom.

TARDIES: Students are expected to be in class on time, in their seats, ready to begin at the final tone. The district tardiness policy will be followed.

FIELD TRIPS: The class will take several field trips throughout the year to various sites that enhance the curriculum. Students will be expected to dress and behave in a responsible manner on all outings. Further, specific guidelines will be sent home before each trip. Students who are not dressed appropriately when they arrive at school, or who cannot behave appropriately will not be permitted to attend. Any student who does not earn 70% of their available daily points will not be permitted to attend a field trip and will instead stay at the school to work toward increasing their grade in the class. Students who do not turn in the appropriate permission slips by the required due date, regardless of absences, will not be permitted to attend. Those students who are required to miss the field trip will be given an alternative assignment to work on during that time. Final discretion for participation is determined by the teacher.

SLEEPING: Absolutely no sleeping is permitted during class. This rule also includes putting one's head down on the desk and propping the head up with the eyes closed. If a student chooses to sleep he/she will be asked to stand and get the blood cells flowing for a few moments. If it is continued problem a call home to the parents will be placed, and the student will receive detention and added independent work assignments to stimulate the mind.

EATING/DRINKING: No food/beverage is permitted in the classroom at any time. Students may leave the class one at a time to get a drink of water if needed. This class is science based and has chemicals and potential biohazards around the classroom. It would be unsanitary to allow eating/drinking in class.

INAPPROPRIATE LANGUAGE/BEHAVIOR: This type of language or behavior is never tolerated. Students are expected to treat everyone with respect. Students who violate this rule will receive detention and a “0” on the daily sheet for the day. A continued pattern of this type of behavior will result in a disciplinary referral.

SCHOOL PROPERTY: Students are responsible for maintaining a clean, safe classroom environment, and demonstrating respect for school property. Many reference and resource books are available and **MUST** remain in the classroom and are never permitted to be taken home. Textbooks will be assigned to each student and students will be responsible for the book they have been assigned. This includes bringing the textbook to and from school when needed.

DRESS CODE: Students in the program are training to be future healthcare professionals. They should dress appropriately to interact with their peers, the school staff and the community. Activities in the class may include working closely with other students, as well as hands-on activities that require students to wash their hands frequently, work on the floor, handle markers, paints or medical equipment. Students should be dressed to work and move comfortably. No revealing clothing or inappropriate wording on clothing will be tolerated. The school dress code will be adhered to in the classroom.

ELECTRONIC DEVICES: Cellular phones, radios, beepers and other electronic devices are not permitted in the classroom or on field trips. School policy regarding these items will be followed.

Evaluation & Grading: Varies by school program and school district policy. For example –

GRADING SYSTEM

93 - 100	A
90 - 92	A-
87 - 89	B+
83-86	B
80 - 82	B-
77 - 79	C+
73 - 76	C
70 - 72	C-
67 - 69	D+

63 - 66	D
60 - 62	D-
59 & Below	E

Marking Period Weight:

Tests – by point

Classwork/Homework – points 20

Semester Grade:

The two card markings make up 80% of the semester grade; the semester final exam makes up the other 20%.

Course Outline: Will vary by school district and program, but must include the following segments.

- 1. Academic foundations/anatomy and physiology/medical mathematics**
- 2. Medical terminology**
- 3. Communications**
- 4. Teamwork**
- 5. Safety**
- 6. Systems**
- 7. Medical Law and Ethics/documentation**
- 8. Technical Skills/CPR**
- 9. Health Maintenance**
- 10. Employability**
- 11. Information technology**
- 12. Work-based learning**