

Diagnostic Medicine Syllabus

Central High School 2023-2024

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931-381-2222 Ext. 1079

Room Number: 2051

Teacher Schedule

Period	Course Name
7:45 am – 8:35 am	Anatomy & Physiology
8:40 am – 9:30 am	Anatomy & Physiology
9:35 am – 10:25 am	Diagnostic Medicine
10:30 am – 11:20 am	Planning
11:25 am – 12:55 pm 11:25am – 11:47 am - Lunch	Health Science
1:00 pm – 1:50 pm	Health Science
1:55 pm – 2:45 pm	Health Science

COURSE DESCRIPTION

Diagnostic Medicine is a second or third level course designed to prepare students to pursue careers in diagnostic medical imaging, medical laboratory testing, optometry, and other patient diagnostic procedures. Upon completion of this course, proficient students will be able to describe new and evolving diagnostic technologies, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills. In addition, students will continue to add artifacts to a portfolio, which they will continue to build throughout the program of study.

GRADING

Attendance	15%
Participation	10%
Tests	15%
Quizzes	10%
Projects	15%
Lab/Performance Skills	15%
Mid-Term Exam	10%
Final Exam	10%

TOPICS COVERED

STANDARD	TOPIC	SUBTOPIC
1	Career Planning	Diagnostic Careers
1	Career Planning	HIPPA
2	Technology	History of Diagnostic Medical Imaging
2	Technology	Use of Robotics
2	Technology	Home Test Kits
3	Safety	Laboratory Safety Concepts
3	Safety	Radiation Safety
3	Safety	Diagnostic Equipment Quality Control
4	Infection Control/Medical Microbiology	Infection Control
4	Infection Control/Medical Microbiology	Normal Flora Homeostasis
4	Infection Control/Medical Microbiology	Epidemiology of Healthcare-Associated Infections
5	Diagnostic Medical Imaging	Anatomy, Physiology, and Pathophysiology Related to Imaging
5	Diagnostic Medical Imaging	Types of Diagnostic Medical Imaging
5	Diagnostic Medical Imaging	Direct Versus Computed Radiography and Image Storage
5	Diagnostic Medical Imaging	Radiographic Physics
6	Clinical Laboratory	Anatomy, Physiology, and Pathology of Blood Components and Related Lab Tests
6	Clinical Laboratory	Pathophysiology of Blood Components and Related Lab Tests
6	Clinical Laboratory	Medical Laboratory Departments
6	Clinical Laboratory	Phlebotomy Skills
7	Ophthalmological Procedures	Anatomy, Physiology, and Pathology of the Eye
7	Ophthalmological Procedures	Pathology of the Eye and Related Tests
7	Ophthalmological Procedures	Ophthalmic Exam Skills
7	Ophthalmological Procedures	Visual Acuity and Abnormalities
8	Cardiologic Services	Cardiovascular Careers

8	Cardiologic Services	Cardiac Diagnostic Procedures
8	Cardiologic Services	Heart Anatomy and Physiology Including the Conduction System
8	Cardiologic Services	Lead Placement
8	Cardiologic Services	Waves, Complexes, and the Cardiac Cycle
8	Cardiologic Services	Rhythm Strip Analysis
8	Cardiologic Services	Cardiac Output Assessment
9	Diagnostic Services Terminology	Diagnostic Services Terminology

STUDENT EXPECTATIONS

- Students are expected to behave in a way that does not interfere with learning. Students that interfere with the ability of the teacher to teach and other students' ability to learn will be dealt with swiftly.
- Professional conduct is a major focus and is a critical element in career success.
- **No cell phones or earbuds. These devices are to be put away in your backpack.**
- No touching. Keep your hands to yourself and off the clinic equipment.
- General school rules listed in the Student/Parent Handbook will be enforced.
- Respect everyone and everything.
- Clean up after yourself!
- Be on time and prepared to learn:
- All school rules apply!
- Assignments are due on the assigned due date. Late assignments will be accepted, however, 10 points will be deducted for each day the assignment is late, unless the student has an excused absence. If the student was present when the due date was announced, the student will be expected to turn the assignment in upon returning to school.
- If a student is absent, it is the STUDENTS RESPONSIBILITY to arrange for makeup work/tests. This must be done within 2 days of returning from any absence. The "due date" for the makeup work will be at the teacher's discretion based on the difficulty of the assignment. If the student was present when the test/assignment was announced, the student will be expected to take the test or turn in the assignment upon returning to school. **If the student does not arrange for makeup work/test within the allotted 2 days, a grade of zero will be entered for that assignment.**
- RETAKE POLICY: A student who wants to retake a failed test must go through remediation before retesting. The student will have 5 school days to include remediation and retesting. The highest possible score on the re-take is 70 percent. This does not include End of Quarter exams. **Note:** When a student retests it may not be the same test or format.
- There will be NO food or drink in the classroom (except a water bottle with a lid), unless permitted by the teacher or for health reasons (teacher must have prior

notification). We work in a laboratory environment at times and food or drink is not permitted for safety reasons.

DISCIPLINE

All students will be given a verbal warning when rules are not followed, or expectations are not met. A second violation will result in a conversation witnessed by another teacher. The student will be reminded of those rules and expectations in this conversation. A third violation results in an immediate phone call to parents. Any further violations will be written up and sent to an administrator. All discipline issues will be recorded in a discipline journal that will be referred to later if violations continue.

ETHICAL BEHAVIOR

Ethical behavior is an essential component of learning and scholarship. Students are expected to understand, and adhere to, the school's academic integrity policy stated in the student handbook. Students who violate this policy will be referred to the office.

CLASSROOM SUPPLY LIST

- Three-ring binder with at least five dividers
- Pens or pencils
- Highlighter (any kind, for notes)
- Loose leaf paper
- Poster board or presentation board

HOSA membership is optional but is recommended for optimal involvement in the Health Science Program.

We will use your student issued devices in the classroom. **You must bring these to class with you every day!** We will use both Teams and eDynamicLearning which you will have access to.

SIGNATURES

Both the parent/guardian and student must sign below indicating they have received, read, understand, and agree to the course's requirements and responsibilities as described in the syllabus.

Student Signature _____ **Date** _____

Parent Signature _____ **Date** _____

