MIDLAND INDEPENDENT SCHOOL DISTRICT

COURSE SYLLABUS
CAREER & TECHNICAL EDUCATION

PLTW MEDICAL DETECTIVES

School Name | Academic Year: 2025–2026 | Length of Course: Semester] **Semester:** [S1]
Number of Credit Hours None **Prerequisite:** None
Instructor: Ashley Belk • **Email**: ashley.belk@midlandisd.net • **Conference Period**:2:32-3:19

Course Description

[Use course description from MISD Course Catalog]

Course Objectives

By the end of this course, students will be able to:

Objective 1	Analyze medical evidence to solve health-related cases.
Objective 2	Apply principles of biology and chemistry to understand disease processes.
Objective 3	Utilize forensic techniques to investigate causes of death or illness.
Objective 4	Communicate scientific findings effectively through written and oral presentations.

Instructional Materials & Supplies

- [Textbook/Platform]
- [Notebooks, tools, PPE]

- [Tech access: Google Classroom, Canvas, etc.]

Course Outline

UNIT	TOPIC	APPROXIMATE TIME
Unit 1	Brain Function & Human Body Systems	2 weeks
Unit 2	Disease Investigation & Epidemiology	3 weeks
Unit 3	Medical Testing & Laboratory Analysis	3 weeks
Unit 4	Forensic Science & Case Analysis	2-3 weeks

(Adjust number of units and time frames as needed.)

Grading Breakdown

Major assignments are those that allow you to demonstrate mastery of the course objectives. Minor assignments include skill checks, quizzes, homework, and other short assessments that contribute to your overall understanding of the course material.

Category	Percentage
Major Assignments(Tests, Projects)	60%
Minor Assignments (Quizzes / Skills Checks)	40%
Semester Exam / Project	15%

Grade Scale: A = 90–100 | B = 80–89 | C = 70–79 | F = < 70

Semester grades include a grade for each of the three six-week periods and an exam or project that is weighted 15% of the overall semester grade.

Classroom Expectations

- Be on time, prepared, and respectful
- Follow safety protocols (PPE, tools, etc.)
- Use tech when instructed
- Ask questions and engage actively

Attendance & Participation

Attendance is mandatory. You must:

- Attend scheduled classes and labs
- Make up missed work with 1 school day allowed for each excused absence

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Late Work & Make-Up Policy

- Students are allowed one day of make-up time for each day of absence
- Late assignment penalties:
  - 1 School Day Late- Maximum Grade of 90
  - 2 School Days Late- Maximum grade of 80
  - 3-5 School Days Late- Maximum grade of 70
- Missed assessments must be rescheduled

Academic Integrity

Cheating or plagiarism is not tolerated. First offense may result in a zero and parent contact. Further violations follow district policy.

Industry-Based Certifications

This course aligns with—and prepares students for—the following credentials:

- **Certification Name (e.g. OSHA 10)**
    - Offered: [Semester/Month]
    - Required/Optional: [Specify]
    - Cost: No charge to student
    - Preparation: in-class instruction, online guides
- **Certification Name (e.g. ServSafe, CPR/BLS, NCCER)**
    - [Details similar to above]

Earning credentials enhances employability and may qualify for dual credit or advanced placement.

Career & Technical Student Organization (CTSO) Involvement

Students are encouraged to participate in:

- **[CTSO Name]** – [e.g., SkillsUSA, HOSA, FFA, BPA, etc.]
    - *Description:* [What it is and how it supports the course]
    - *Activities:* [Meetings, competitions, service projects]

- *Requirements:* [e.g., “Attend & participate in two events per semester”]

Safety & Equipment Use

- Always follow safety instructions and wear required PPE
- Report damaged tools/equipment immediately
- Violation of safety protocols may result in removal from lab and disciplinary action

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Parent/Guardian Communication

- Progress reports sent every 3 weeks if grade is below 70.
- Grades available in Skyward
- Please email or call with questions or concerns

Acknowledgment of Understanding

Please return this signed page by [Date].

Student Name: _____ **Signature:** _____

Guardian Name: _____ **Signature:** _____

Preferred Contact (Email/Phone): _____