



Medical Interventions

Syllabus - 2025 - 2026

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Medical Interventions (MI) allows students to investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. These scenarios will expose students to a wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario will present new content, introduce multiple types of interventions, and reinforce concepts learned in the previous two courses. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. The family will showcase these interventions across generations, offering a glimpse into the past, present, and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course, as well as the important role that scientific thinking and engineering design play in the development of future interventions.

Course Outline:

Unit 1: How to Fight Infection (mystery infection, antibiotic treatment, the aftermath: hearing loss, vaccination)

Unit 2: How to Screen What is in Your Genes (genetic testing & screening, our genetic future)

Unit 3: How to Conquer Cancer (detecting cancer, reducing your risk, treating cancer, building a better cancer treatment)

Unit 4: How to Prevail When Organs Fail (manufacturing human proteins, organ failure, transplant, building a better body)

Primary Resource:

Google Classroom

Grade Breakdown:

Semester Grade	Practice	Formative	Summative
80%	10%	30%	60%
20%	Semester Exam		

Grading Scale:

Grade	Percent	Grade	Percent	Grade	Percent
A+	97-100	B	83-86	C-	70-72
A	93-96	B-	80-82	D+	67-69
A-	90-92	C+	77-79	D	63-66
B+	87-89	C	73-76	D-	60-62
F Below 60					

Late Work/Missing Work Policy:

Mukwonago Area Schools believes that feedback is an integral component of student success in teaching and learning. Mukwonago High School expects that all students will turn in work by the intended due date to receive full credit and necessary feedback. Students will have the opportunity to turn in practice and formative assessments up to two school days late to receive partial credit.

- **Full Credit:** Students *might* receive full credit if the practice or formative assessment is turned in on the due date.
- **Partial Credit:** Students will receive partial credit if the practice or formative assessment is turned in up to two school days after the due date.
- **Zero Credit:** Practice or formative assessment can be turned in past the two days to remain eligible for reassessment; however, no credit will be given.

Assessment Policy:

Assessments are used to measure student learning of essential learning standards within a unit of instruction.

Cumulative assessments (e.g., projects, essays, presentations, and semester exams): These end-of-unit assessments are final products of learning in which students have had several opportunities to make adjustments based on feedback. Retakes are not provided for these types of end-of-unit assessments. * **Not eligible for retake**

Summative Assessments (Ex. Test): This end-of-unit assessment uses various types of questions that students have studied but not previously seen. Students are eligible to reassess if the following criteria are met: Practice and formative assignments for the unit have been completed and turned in before the summative assessment. The student meets with their teacher to schedule a reassessment and demonstrates relearning within two weeks of receiving the original assessment. The reassessment grade will replace the original summative grade, regardless of whether the new grade is lower than the original assessment. ***Eligible for retake**

Materials/Supplies needed:

- ☐ Charged device
- ☐ Pencil
- ☐ 5-subject spiral notebook
- ☐ folder
- ☐ Lab coat (I have paper ones in class)

Expectations & Classroom Conduct:

Be Respectful
Be Responsible
Be Engaged
Be Safe

Tardiness will be tracked in Infinite Campus (IC), and the following steps will be taken for each occurrence:

- 1st Tardy: Verbal warning
- 2nd Tardy: 10-minute detention with the teacher (must be served within 2 days) and parent contact; administration will be notified through Educlimber.
- 3rd Tardy: Teacher will submit an IC office referral. Administration will meet with the student, assign an after-school detention, and contact the parent.
- 4th +: The teacher will submit an office referral in Infinite Campus (IC), and administration will determine appropriate consequences at their discretion.

Academic Honesty:

The Mukwonago Area School District emphasizes the importance of academic honesty and integrity as essential to education. Students are expected to complete and represent their work truthfully and are held accountable for academic misconduct, including cheating, plagiarism, and misuse of artificial intelligence. Teachers review the academic honesty policy at the start of each course. Consequences for dishonesty vary by offense: the **first offense** results in a zero on the assessment, parent contact,

administrative review, and permanent ineligibility for National Honor Society; the ***second offense*** leads to another zero, a parent meeting with administration, and ineligibility for valedictorian or salutatorian honors; a ***third offense*** results in withdrawal from the course with a failing grade or audit status, and loss of honors pass privileges.

Tips for Success:

Use Google Calendar.

When in doubt, ask!

All Mukwonago policies & procedures will be followed and enforced in this class, as outlined in more detail in the [Mukwonago High School Student and Parent Handbook](#).