

NON-CYCLE REQUEST FORM

Curricular Area: Science/Healthcare

Course Title: Medical Interventions

Grade Level(s) 11-12 Semester or Year Long Course

Building- Jefferson High School Submission Date 10.13.2026

Name of Contact Person: Alyce Myers, Suzanne Bangert, Joy Cedarquist

Part A: Documentation

1. What is the rationale or purpose for this proposal? Please include as much quantifiable information as is available; e.g., needs assessment, test scores, etc.

The course that would be added to the science department would be Medical Interventions. Creating this course would provide our students with another opportunity to help them earn credits towards graduation. It would replace the current Genetics class, however many of the same topics would still be in the class. The purpose of this proposal is to give students another pathway for graduation and continue to prepare those students for fields in the medical career. Long-term this class that is offered could be taught by a health science teacher or a biology teacher. Also, giving the course the PLTW curriculum allows teachers in the future to keep the class standardized.

PLTW Biomedical Science Pathway from the data increases the likelihood of students entering STEM careers in college, ACT scores show improvement from a national average of 20 to an average of a 24 on the test.

Reinforcing Core Sciences: The curriculum directly enhances understanding of high school and AP biology, chemistry, and Common Core subjects by immediate laboratory application. <https://www.pltw.org/cte-biomedical-science-pathways>

Part B: Proposed Curricular Changes

1. What student population will be served by this proposal? Please include an estimate of the number of students impacted by this proposal.

Population that would be served is any student interested in the science or medical field. Genetics would be replaced by Medical Interventions (MI) by the current enrollment we have right now. However, if more students followed the pathway for graduation the numbers in MI would increase in 3-5 years and could potentially allow for a second section to be added. Current numbers in genetics are around 20 students per year, students in MI could reach 40-50 if students followed the PLTW pathway to completion.

2. What specific changes will be made to the curriculum?

Curriculum would be through PLTW. MI would teach many of the same items as is currently taught in genetics, with a few changes from PLTW. Many skills are lab based and will be used in future classes. The current genetics labs will continue to be done as well as other laboratory experiences in which are not currently taught. All of these skills will better prepare students for the medical field or a research science profession.

3. How will these changes affect current learner outcomes and indicators?

These changes will keep the current learner outcomes and indicators while providing a clear pathway for graduation purposes. MI is the third course in the series and serves as a culmination point for our students to take classes that will help them in college and beyond. This course will also help students who are enrolled in classes such as AP Biology and AP Chemistry. MI will be taught at the honor's level.

4. What "Scientifically Based Research" supports the request?

PLTW Website gives data seen below that includes: <https://www.pltw.org/cte-biomedical-science-pathways>

- **College Enrollment:** Students completing PLTW biomedical courses are **49% more likely** to enroll in college.
- **STEM Majors:** Graduates are **32% more likely** to choose a STEM major in college.
- **Postsecondary Retention:** Students are **15% more likely** to stay in postsecondary education after completing two or more PLTW courses.
- **Standardized Testing:** Participating schools report an average ACT composite score of **24** (compared to a national average of 20) and an average ACT science score of **24** (compared to a national average of 20).
- **Industry Alignment:** Prepares students to address a projected **2 million new healthcare jobs** by 2032 and offers opportunities for Industry-Recognized Credentials (IRCs) and college credit.

5. What are the course prerequisites?

Students need to have taken Chemistry I and Biology 1 with a C or better to take MI.

6. How will this information be shared with other staff to be impacted by this change?

Goal will be to include in the handbook in the future. Science department will be given this information at staff meeting and counselors will have information shared with them as well.

7. What is the proposed date of implementation?

August 2027- The 2027-2028 school year.

Part C: Cost Estimates

Please be specific as possible; include numbers, amounts of time, etc. wherever possible.

Estimates	
Additional staff	0
Supplementary material(s)	
Supplies	
Staff Development	\$2,400
Textbooks	0
Equipment	
Other	0
Other	0

Part D: Assessments

Describe the process by which you intend to assess this curriculum. How will the results of the assessment be shared with staff, Sr. Leaders, and the Board of Education? What is the timeline for this assessment?

Timelines

LEA presentation: _____

Cabinet presentation: _____

Board presentation: _____

Board approval: _____