

MEDICAL ROBOTICS

GRADES 8–12

This document lists the Wyoming learning standards addressed by Medical Robotics, True Robotics' grades 8–12 robotics curriculum. Standards are grouped by subject and grade level, with codes and wording as published by the Wyoming Department of Education.

3

SCIENCE

6

CS

9

TOTAL STANDARDS

SCIENCE

3 STANDARDS

Based on the Wyoming state standards

GRADE	CODE	STANDARD
8	MS-LS1-3	Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.
8	MS-PS2-2	Plan an investigation to provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object.
9–12	HS-ETS1-3	Evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics as well as possible social, cultural, and environmental impacts.

COMPUTER SCIENCE

6 STANDARDS

Based on the Wyoming state standards

GRADE	CODE	STANDARD
8	8.AP.V.01	Using grade appropriate content and complexity, create clearly named variables that represent different data types and perform operations on their values.
8	8.AP.C.01	Using grade appropriate content and complexity, design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.
8	8.CS.HS.01	Design and refine a project that combines hardware and software components to collect and exchange data.
9–12	L1.AP.A.01	Create a prototype that uses algorithms (e.g., searching, sorting, finding shortest distance) to provide a possible solution for a real-world problem relevant to the student.
9–12	L1.AP.M.01	Decompose problems into smaller components through systematic analysis, using constructs such as procedures, modules, and/or objects.

GRADE	CODE	STANDARD
9-12	L1.IC.SLE.04	Using grade level appropriate content and complexity, discuss the legal, social, and ethical impacts associated with software development and use, including both positive and malicious intent.

SOURCES & NOTES

- The official science and computer science standards for Wyoming, as published by the Wyoming Department of Education.
- Codes and standard wording are reproduced from the official standards documents. Clarification statements, examples and assessment boundaries are omitted.
- Grade shows the grade level at which True Robotics lessons address each standard. A range (for example K-2) marks a standard written for a grade band.
- Standards text remains the property of its publisher and is reproduced here for alignment reference only.
- A lesson-level crosswalk is available on request at info@truerobotics.org.