

MEDICAL ROBOTICS

GRADES 8–12

This document lists the Mississippi 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 Mississippi Department of Education.

5

SCIENCE

6

CS

11

TOTAL STANDARDS

SCIENCE

5 STANDARDS

Based on the Mississippi state standards

GRADE	CODE	STANDARD
9–12	HAP.1.3	Investigate the interdependence of the various body systems to each other and to the body as a whole.
9–12	HAP.12.1	Design and use models to illustrate the functions of the organs of the respiratory system.
9–12	HAP.10.1	Design and use models to investigate the functions of the organs of the cardiovascular system.
9–12	HAP.7.1	Obtain, evaluate, and communicate information to illustrate that the endocrine glands secrete hormones that help the body maintain homeostasis through feedback mechanisms.
9–12	PHS.5.5	Design and construct an investigation using probe systems and/or online simulations to observe relationships between force, mass, and acceleration ($F=ma$).

COMPUTER SCIENCE

6 STANDARDS

Based on the Mississippi state standards

GRADE	CODE	STANDARD
8	FS.ALG.10	Develop pseudocode that includes a combination of sequence, events, iteration, selection, and variables to model an algorithm.
8	E6.PRO.16	Use basic data types (e.g., integers, strings) to store and manipulate data.
8	FS.PRO.24	Implement algorithms from pseudocode into working programs and analyze how program components and structures work together to control flow, manage data, and solve problems effectively.

GRADE	CODE	STANDARD
9-12	SI.PHY.02	Integrate sensors, actuators, and peripherals with physical computing devices to extend their functionality and gather real-world data for analysis and control.
9-12	FS.PRO.20	Create modular programs that use procedures, modules, or objects to improve reusability and readability.
9-12	FS.CAS.04	Evaluate the societal and environmental impacts of emerging technologies, including those that lead to inequities in access and outcomes.

SOURCES & NOTES

- The official science and computer science standards for Mississippi, as published by the Mississippi 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.