Warren County School District PLANNED INSTRUCTION

COURSE DESCRIPTION

Course	Title:	Design	and.	Modeling	(PLTW	STEM	COURSE)	
					•			

Course Number: <u>00755</u>

Course Prerequisites: None

Course Description:

Design and Modeling provides students opportunities to apply the design process to creatively solve problems. Students are introduced to the unit problem in the first activity and are asked to make connections to the problem throughout the lessons in the unit. Students learn and utilize methods for communicating design ideas through sketches, solid materials, and mathematical models. Students will understand how models can be simulated to represent an authentic situation and generate data for further analysis and observations. Students work in teams to identify design requirements, research the topic, and engage stakeholders. Teams design a toy or game for a child with cerebral palsy, fabricate and test it, and make necessary modifications to optimize the design solution.

Suggested Grade Leve	el: <u>6 – 8</u>						
Length of Course:	☐ One Semester	☐ Two Semesters	☑ Other (9 week course)				
Units of Credit: .25 Middle Level Credit (Insert None if appropriate)							
PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certifications: CSPG 33, CSPG 50, CSPG 53, CSPG 65							
Certification verified by WCSD Human Resources Department : ⊠ Yes □ No							
TEXTBOOK AND SUPPLEMENTAL MATERIALS							
Continue using Board	approved textbook?	Yes No (If yes, then comple	ete the information below.)				
Board Approved Text	books, Software, Suppl	emental Materials:					
· ·	Way Durable and Consu	mable Resources					
Publisher:							
ISBN #:							
Copyright Date: Date of WCSD Roard	Annroval.						

BOARD APPROVAL:

Date Written: <u>8/28/2018</u>

Date Approved: October 8, 2018; March 11, 2019 Revised Credit

Implementation Date: 2018-2019

SPECIAL EDUCATION AND GIFTED REQUIREMENTS

The teacher shall make appropriate modification to instruction and assessment based on a student's Individual Education Plan (IEP) or Gifted Individual Education Plan (GIEP).

COURSE OVERVIEW

(List the content to be taught)

For standards, essential questions, content, and skills see Curriculum Map – See attached course outline and academic standards taught within this course.

ASSESSMENT							
Portfolio Assessment: □ Yes ⊠ No							
District-Wide Common Final Examination Required: □ Yes ⊠ No							
Course C	hallenge Assessment (Describe): None						
WRITING TEAM: Warren County School District							
	WCSD STUDENT DAT	TA SYSTEM INFORMATION	ı				
1.	Is there a required final examination? *Warren County School District Policy 9741 an		2 shall have a final exam."				
2.	Does this course issue a mark/grade for t	he report card? \boxtimes Yes \square No					
3.	Does this course issue a Pass/Fail mark?	□ Yes ⊠ No					
4.	Is the course mark/grade part of the GPA	calculation? ⊠ Yes □ No					
5.	Is the course eligible for Honor Roll calc	ulation? ⊠ Yes □ No					
6.	What is the academic weight of the cours	se?					
	☐ No weight/Non credit		☐ Enhanced weight				