Middleton Magnet Program Pathways of Study



These are the recommended pathways for the magnet programs at Middleton High School. Electives are chosen to meet the needs of individual students in satisfying the requirements of their course of study. A student who is accepted to the magnet program is accepted for the entire four-year program. If a student is retained at the end of a school year, he/she will lose their seat in the program and will be removed from the Magnet Program.



ENGINEERING MAGNET – PROJECT LEAD THE WAY			
Grade 9	Grade 10	Grade 11	Grade 12
English I Honors	English II Honors	AP English Language & Composition	AP English Literature & Composition
Geometry Honors	Algebra II Honors	Pre-Calculus Honors	AP Calculus AB or BC
Biology Honors	Chemistry Honors	AP Chemistry or AP Physics 1	AP Physics C
AP Human Geography	AP World History	AP US History	AP Government/AP Economics
Intro to Engineering - Honors	Computer Integrated Manufacturing - Honors	Principles of Engineering - Honors	Engineering Design & Development - Honors
Technical Design I	Digital Electronics - Honors	Civil or Aerospace Engineering - Honors	Technical Design III; USF/HCC Dual Enrollment Electrical Engineering
Elective	World Language	World Language	PLTW Engineering Elective or Elective
Elective	НОРЕ	Elective	Elective

BIOMEDICAL-BIOTECHNOLOGY MAGNET – PROJECT LEAD THE WAY			
Grade 9	Grade 10	Grade 11	Grade 12
English I Honors	English II Honors	AP English Language & Composition	AP English Literature & Composition
Geometry Honors	Algebra II Honors	Pre-Calculus Honors	AP Calculus AB or BC
Biology Honors	Chemistry Honors	AP Chemistry	AP Biology or AP Physics 1
AP Human Geography	AP World History	AP US History	AP Economics Elective
Principles of Biomedical Sciences - Honors	Human Body Systems - Honors	Medical Interventions - Honors	Biomedical Innovation - Honors
Technical Design I	Biotechnology II	Biotechnology III	Science Elective
Elective	World Language	World Language	HOPE
Elective	Elective	Elective	Elective

*AP Psychology is recommended for 9th or 10th grade elective

CYBER SECURITY COMPUTER SCIENCE				
Grade 9	Grade 10	Grade 11	Grade 12	
English I Honors	English II Honors	AP English Language & Composition	AP English Literature & Composition	
Geometry Honors	Algebra II Honors	Pre-Calculus Honors	AP Calculus AB or BC	
Biology Honors	Chemistry Honors	Physics Honors or AP Physics 1	Science Elective	
AP Human Geography	AP World History	AP US History	AP Economics Elective	
CSIT Essentials – Honors (Python)	**CSIT Network Systems*** **Configuration – Honors***	**CSIT Network Systems Design & Administration - Honors	**CSIT Cyber Security-Physical - Honors	
CSIT Foundations – Honors (Python)	Web 1 or UID (Web 2)	AP Computer Science A (Java)	**CSIT Cyber Security Essentials- Honors	
Elective	HOPE	World Language	World Language	
Elective	Comp Principles	Elective	Dual Enrollment or Elective	
*Foundation of Web Design Required in 9 th or 10 th grade				

** Career Dual Enroll. *** HTML5, CSS3, JAVA Script

COMPUTER GAME DESIGN MAGNET				
Grade 9	Grade 10	Grade 11	Grade 12	
English I Honors	English II Honors	AP English Language & Composition	AP English Literature & Composition	
Geometry Honors	Algebra II Honors	Pre-Calculus (Honors)	AP Calculus AB or BC	
Biology Honors	Chemistry Honors	Physics Honors or AP Physics 1	AP Biology or AP Physics 2	
AP Human Geography	AP World History	AP US History	AP Economics Elective	
Foundations of Game Design	Game & Simulation Design Animation	Game & Simulation 3D Graphic Dev.	Game, Simulation, & Animation Advanced Applications	
Computer Fundamentals	AP Computer Science Principles	Game & Simulation Programming (C#)	AP Computer Science A (Java)	
Elective	HOPE	World Language	World Language	
Elective	Elective	Elective	Elective	
*Game Design Audio If student already took Game Design Foundations *Graphic Artists required 10 th or 11 th grade				

Middleton Magnet Program Pathways of Study



Additional Career & Technical Educational Tracks					
Grade 9	Grade 10	Grade 11	Grade 12		
	Agriculture				
Agri-Science Foundations H (Ag Associates) Certification	Agri-Technology 1 (Ag Tech Specialist) Certification	Horticulture 2 (FNGLA-CHP) Certification *	Horticulture 3 (FNGLA- CLT)) Certification *		
	Aerospace	JROTC			
Air Force ROTC 1	Air Force ROTC 2	Air Force ROTC 3	Air Force ROTC 4		
	American Sign Language				
American Sign Language 1	American Sign Language 2	American Sign Language 3H	American Sign Language 4H Seal of Biliteracy		
Band					
Band 1	Band 2	Band 3	Band 4		
Building Construction					
Building Construction 1	Building Construction 2 Pre-Apprenticeship Certified Training	Building Construction 3 (Carpentry) HB1 Pre-Apprenticeship Certified Training	Building Construction 4		
	Family Consu	mer Science	·		
Barbering 1	Barbering 2	Barbering 3	Barbering 4 Skills USA Competition		
*Grooming/ Salon Services	Cosmetology 3	Cosmetology 5	Cosmetology 7		
*Cosmetology 2	Cosmetology 4	Cosmetology 6	Cosmetology 8		
Orchestra					
Orchestra 1	Orchestra 2	Orchestra 3	Orchestra 4		
Spanish					
Spanish 1	Spanish 2	Spanish 3	Spanish 4 Seal of Biliteracy		
TV Production					
T.V. Production 1	T.V. Production 2 Adobe professional in video design (Cert)	T.V. Production 3	T.V. Production 4		

*Semester Course