INDIVIDUAL PLAN OF STUDY

Electronic file located in Xello - "Course Planner"
Located at Olathe North
X: @OlatheDS
Apply at: olatheschools.org/careerpathways

Distinguished Scholars Math
Four-Year Academy

Graduation Requirements	9th Grade	Credits	10th Grade	Credits	11th Grade	Credits	12th Grade	Credits	*Y 13*
English (x4 credits)	Honors English 9	1	Honors English 10	1	AP English Language	1	AP English Literature	1	
Math (x3 credits)	Algebra I ***OR*** Honors Geometry ***OR*** Concurrent Enrollment in Algebra I & Honors Geometry	1	Honors Geometry ***OR*** Honors Algebra II ***OR*** Concurrent Enrollment in Honors Geometry & Honors Algebra II	1	Pre-Calculus	1	AP Calculus AB ***OR*** AP Calculus BC ***AND/OR*** AP Statistics	1	
Science (x3 credits) **(1 Life; 1 Physical; 1 Elective)**	Honors Biology	1	Honors Chemistry	1	Required: Any AP level science course	1+	Recommended: College-bound students should enroll in science all four years as recommended by facilitator & science teacher	2	
Social Studies (x3 credits) **(1 World; 1 US; 0.5 Govt;** **0.5 elective)**	World History ***OR*** Honors World History	1	Highly recommended: World Geography ***OR*** Honors World Geography	.5	US History ***OR*** AP US History	1	US Govt ***OR*** AP US Govt	.5	
Communications (0.5 credit)	All Academy **Capstone Courses** will fulfill the Communications Requirement								*Y 14*
Financial Literacy: (0.5 credit)	Financial Literacy								
Fine/Performing Arts (1 credit)	Student choice - any year(s) **1+**								
Health: (0.5 credit)	Health Education *Optional*: Health may be taken online through eAcademy if space is needed in student's schedule.								
Language Applications: (1.0 credit)	Student Choice - Any year(s) **1+** College-bound students should enroll in 2 years of the same World Language.								
Life Studies: (0.5 credit)	Using the PPG - Identify courses that fulfill this requirement								
Physical Education (0.5 credit)	PE Concepts ***OR*** Cheer/Dance Team ***OR*** Strength & Conditioning	**.5**	*Optional*: P.E. Concepts may be taken online through eAcademy if space is needed in student's schedule. This can be scheduled during the summer - grades 10-12 only. *Other online classes are available at eacademy.olatheschools.com*						
STEM (1.0 credit)	*Students fulfill STEM graduation requirement through Four-Year Academy Courses*								
Individual Focus (5.5 credits) **Four-Year Academy Coursework**	DS Freshman Cross Cultural Expeditions	**1**	DS Symposium Math (10)	**1**	DS Symposium Math (11)	**1**	Distinguished Scholars Senior Capstone	**1**	
Total Credits: **(24 total needed for graduation)**	**9th grade total:**	**7**	**10th grade total:**	**7**	**11th grade total:**	**7**	**12th grade total:**	**3+**	
NOTE: *Credits beyond requirements in any category will fall under individual focus.*									
Students may earn an endorsement on their transcript for completing all Academy requirements, including successful completion of coursework, outside-the-classroom learning opportunities, field experiences, and capstone projects. Refer to the Academy's Endorsement Requirements provided by facilitator or found on the web at olatheschools.or/careerpathways									

Graduating Class of 2028 and Beyond

Distinguished Scholars Math

Four-Year Academy

Olathe North High School

WHO WE ARE:

Academically high-achieving students immerse themselves in rigorous, non-traditional coursework in one of five content areas as well as participate in cross-curricular studies. Many students pursue post-graduate degrees before embarking on careers.

WHAT WE DO:

- Work with both applied mathematics, such as statistics, surveying, and engineering, and pure mathematics, such as number theory, geometries, and differential equations
- Focus on building mathematical models by studying novel situations and tackling questions with no easy answers
- Develop skills within mathematical modeling, including identifying important, measurable characteristics, applying techniques for data gathering and analysis, verifying model robustness and feasibility, and communicating results, benefits, and limitations
- Enhance students' regular curriculum by studying historical perspectives on math and advanced topics like non-Euclidean geometries, graph theory, apportionment, capture-recapture, and others
- Participate in HiMCM international modeling competition, AMC 10/12, as well as regional math competitions
- Complete a senior project related to a mathematical field, showing new learning or experimentation