



USD #233 Individual Plan of Study
 Electronic file located in Xello - "Course Planner"
 Located at Olathe North
medicalprofessions.olatheschools.org
 X: @OlatheMedProf
 Apply at: 21stcentury.olatheschools.com

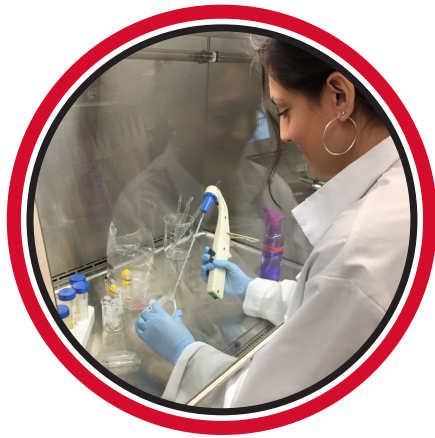
Medical Professions Academy



Graduation Requirements	9th Grade	Credits	10th Grade	Credits	11th Grade	Credits	12th Grade	Credits	Y 13	
English (x4 credits)	English 9 OR Honors English 9	1	English 10 OR Honors English 10	1	English 11 OR AP English Language	1	English 12 OR College Prep English OR AP English Literature	1		
Math (x3 credits)	Must take 1.0 math 9th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 10th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 11th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 12th gr year as recommended by facilitator & math teacher	1		
Science (x3 credits) (1 Life; 1 Physical; 1 Elective)	Required: Honors Biology	1	Required: Honors Chemistry OR General Chemistry Recommended: Anatomy and Physiology OR AP Physics I	1	Required: AP Chemistry OR College Chemistry Recommended: Anatomy and Physiology OR AP Physics I	1	Required: AP Biology OR College Biology Recommended: AP Physics I OR AP Physics II OR Anatomy and Physiology	1+		
Social Studies (x3 credits) (1 World; 1 US; 0.5 Govt; 0.5 elective)	World History OR Honors World History	1	Introduction to Psychology OR European History	.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)	See PPG for Financial Literacy Options									
Fine/Performing Arts (1 credit)	Student choice - any year(s) 1+									
Health: (0.5 credit)	Health Education <i>Optional: Health may be taken online through eAcademy if space is needed in student's schedule.</i>									
Applied Language: (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/Drill Team OR Strength & Conditioning	.5	<i>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 or as an 8th hour during the school year - grades 10-12 only. Other online classes are available at eacademy.olatheschools.com</i>							
STEM (1.0 credit)	<i>Students fulfill STEM graduation requirement through 21st Century Academy Courses</i>									
Individual Focus (5.5 credits) 21st Century Academy Coursework	Medical Professions Investigations	1	Genetic Applications	1	Advanced Biotechnology	1	Medical Professions 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 www.21stcentury.olatheschools.com



Olathe North High School

Genetics, Research, & Human Healthcare

Who We Are:

We fuse technology, research and hands-on patient care to discover a variety of opportunities available through the life sciences field. Through specialized experiences and innovative labs, students are exposed to the following three major topics:

- **Genetics** - Take an in-depth look into our genetic code through DNA, and the various building blocks and proteins it codes for.
- **Research** - Students have opportunities to conduct research using specialized equipment in the life science and biotechnology fields.
- **Human Healthcare** - The overall focus of this Academy is to combine genetics and research, while applying them to patient care. Senior year, students may obtain internships in the healthcare industry and put their background knowledge to the test in a patient care environment.

What We Do:

- Use industry-standard research lab equipment.
- Provide partnerships with educational and industry leaders in a wide range of life science fields, including shadowing and internships at hospitals, research laboratories, and patient care facilities.
- Study and manipulate DNA and proteins.
- Participate in tours and experiences at local life science related institutions including medical, nursing, pharmacy and dental schools.
- Participate in SMART Team (Students Modeling A Research Topic), where students produce a scientific poster and print a 3-D molecular model of a protein. Students work with the Milwaukee School of Engineering and research scientists to accomplish this. If accepted as presenters, student teams have the opportunity to show-off their research at the annual National Experimental Biology Conference alongside college students and researchers from around the world.

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Explore careers in this field with the Occupational Outlook Handbook at <https://www.bls.gov/ooh/>