

LEARNING LAB

Learning Lab (080311) This one-term, elective course is intended as additional support for identified students who have not met the district's mathematics and/or reading standards and benchmarks and/or achieved proficiency on the Iowa Tests of Educational Development (ITED). Students will participate in focused activities to increase their basic skills in math, reading, and writing. Instruction includes direct instruction, computer-assisted learning, and self-selected reading. This course may be repeated. Students meeting specific criteria are required to take this class. **Offered at North High School only.**

Subject	Course Numbers	Units per course	Grade level offered				Prerequisites and related information
			9	10	11	12	
Learning Lab	080311		X	X	X	X	

MATHEMATICS

Subject	Course Numbers	Units per course	Grade level offered				Prerequisite and related information
			9	10	11	12	
Cognitive Tutor Algebraic Principles (2-term course)	202213 /202214	1	X	X			Students will be registered for this class based on need. Basic computer keyboarding skills are recommended
Algebraic Principles (2-term course)	203121 /203122	1	X	X			Students will be registered for this class based on need
Consumer Mathematics 1	201411	0.5		X	X	X	None
Consumer Mathematics 2	201421	0.5		X	X	X	None
Data Applications (2-term course)	209911 /209912	1		X	X	X	Consumer Math or Equivalent
Cognitive Tutor Algebra 1 (2-term course)	203113 /203114	1	X	X	X	X	Basic computer keyboarding skills are recommended
Algebra 1 (2-term course)	203111 /203112	1	X	X	X	X	None
Intermediate Mathematics (2-term course)	202211 /202212	1		X	X	X	Algebra 1 or CT Algebra 1
Geometry (2-term course)	203411 /203412	1	X	X	X	X	Algebra 1 or CT Algebra 1
Algebra 2 (2-term course)	204111 /204112	1		X	X	X	Geometry or consent of Department Chair
Discrete Mathematics (2-term course)	205411 /205412	1			X	X	Geometry and Algebra 2
Pre-Calculus (2-term course)	205311 /205312	1			X	X	Geometry and Algebra 2
AP Calculus (3-term course)	205811 /205812 /205813	1.5			X	X	Pre-Calculus
AP Statistics (3-term course)	206331 /206332 /206333	1.5			X	X	Algebra 2

Students should enroll each year in math classes which are suited to their abilities and interests. Students who are planning to continue their education after graduation from high school should consult the institution of their choice to determine what mathematics courses are required for admission.

Cognitive Tutor (CT) Algebraic Principles (202213/202214) This course is designed to improve the students' understanding of algebra readiness skills for their future success in Algebra 1. This course presents the algebra readiness curriculum in an alternative way: it combines state-of-the-art computer software with collaborative classroom activities. The software component, which represents 40% of the instructional time, allows students to work at their own pace using tools such as tables and models to represent and manipulate algebraic expressions and equations. The software immediately shows students whether their problem solving strategies and mathematical skills will be successful, allowing them to focus on correcting errors and developing mathematical skills that they find difficult. The text component allows students to collaborate with peers, to explore and solve real world problem scenarios, and to present solutions in class. There is an additional fee for materials.