

LANGUAGE ARTS (CONT)

Stagecraft (111411) For students interested in extending their knowledge in the technical areas of theater. Students get hands-on experience in set construction/painting techniques, stage lighting, production staffs, makeup, sound, properties, and directing.

Forensic Speech - Inclusive 1 (108221) This course provides the motivated student with an overall communications program. This is an intensive course designed for students who possess a high level of interest and public speaking skills. The course provides the student with a variety of experiences that teach self-discipline, leadership skills, creative thinking skills, and effective writing and speaking skills. Forensic Speech - Inclusive 1 includes research, debate, extemporaneous speaking, interpretive speaking, and original oratory. Tournament or contest participation is strongly encouraged as a means of transferring the skills learned to an actual communication situation. Therefore, students interested in business, law, communications, or the science field would find this course the perfect companion to developing leadership skills and in preparation for furthering their education.

Forensic Speech - Inclusive 2 (108222) Provides the motivated student with an overall communications program. This is an intensive course designed for students who possess a high level of interest and public speaking skills. The course provides the student with a variety of experiences that teach self-discipline, leadership skills, creative thinking skills, and effective writing and speaking skills. Additional debate, oratory, and interpretive events are taught along with additional independent projects or study trips that provide students with an opportunity to place the art of public speaking into real world contexts. Tournament or contest participation is strongly encouraged as a means of transferring the skills learned to an actual communication situation. Therefore, students interested in business, law, communications, or the science field would find this course the perfect companion to developing leadership skills and in preparation for furthering their education.

Advanced Public Speaking (108231/108232) Special emphasis is placed on competitive speaking situations and advanced training in the use of logical, ethical and emotional evidence as a motivating factor in speaking. Students work both independently and cooperatively in areas of individual interests. This year-long course may be taken twice for credit.

Magazine Laboratory (101161) Students who are interested in hands-on experience with all the phases of publishing a high school literary magazine benefit from this course. Students interested in reading, writing, evaluating, word processing, and formatting to produce a quality literary magazine find this course rewarding. Additional goals are to allow students to gain a working knowledge of the writing process and the publication process and to gain experience in a cooperative effort. Students also gain a measure of experience in judging and rating written work. The class stresses team effort and responsibility.

Newspaper Laboratory (190221/190222/190223/190224) Designed for students who are editors, reporters and photographers for the school newspaper. Students expand upon their basic journalistic skills through assignments in reporting, writing, editing, design and photography in publishing the school newspaper. This course may be repeated. Enrollment is permitted with the consent of the instructor.

Yearbook Laboratory (190231/190232/190233/190234) Designed for students who are editors and photographers for the yearbook. Students expand their basic journalistic skills through writing, editing, design and photography in the production of the yearbook. This course may be repeated. Enrollment is permitted with the consent of the instructor.

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.

Subject	Course Numbers	Units per course	Grade level offered				Prerequisite and related information
			9	10	11	12	
Learning Lab	080311	0.5	X	X	X	X	None

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
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

Subject	Course Numbers	Units per course	Grade level offered			Prerequisite and related information	
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) 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.

Algebraic Principles (203121/203122) Designed to improve the students' understanding of algebra readiness skills for their future success in Algebra 1. Topics of study will include: Probability, Solving Equations and Inequalities, Data Analysis, Graphing on the Coordinate Plane, Solving Systems of Equations, Polynomials, and an Introduction to Geometry.

Consumer Mathematics 1 (201411) and Consumer Mathematics 2 (201421) Designed to meet the student's current consumer needs as well as anticipated future needs. Some topics covered are money management, automobile ownership, personal income, banking, taxes, insurance, investments, and purchasing of consumer goods. A Texas Instruments TI-83+ or TI-84 graphing calculator is recommended.

Cognitive Tutor (CT) Algebra 1 (203113/203114) An algebra curriculum that 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 spreadsheets, graphs, equation solvers, and other data organizing tools to solve algebraic problems. The text component, which extends the algebraic concepts developed in the software, allows students to collaborate with peers, to explore and solve real-world problem scenarios, and to present solutions to the class. There is an additional fee for materials. A Texas Instruments TI-83+ or TI-84 graphing calculator is recommended.

Algebra 1 (203111/203112) Uses an equation solving approach to problem solving. It moves from concrete numerical concepts to abstract concepts. It becomes the language of advanced mathematics courses. A Texas Instruments TI-83+ or TI-84 graphing calculator is recommended.

Intermediate Mathematics (202211/202212) For students who have completed Algebra, but are not prepared to enroll in geometry. Topics covered are: computational skills; algebraic skills such as solving equations, graphing, polynomials, quadratic equations; basic geometric concepts and measurement, and basic probability and statistics concepts. Students who are successful in this course should take Geometry the following year. A Texas Instruments TI-83+ or TI-84 graphing calculator is recommended.

Geometry (203411/203412) An integrated course in plane and solid geometry. This course is designed for the development of logical and deductive reasoning through the study and analysis of facts pertaining to various two and three dimensional figures. A Texas Instruments TI-83+ or TI-84 graphing calculator is recommended.

Algebra 2 (204111/204112) Reviews first year Algebra from a more advanced point of view with additional study in quadratic equations, systems of equations, and exponentiation. During the second term additional topics are studies in permutations, combinations, probability and progressions,, and a study of the real number system. A Texas Instruments TI-83+ or TI-84 graphing calculator is highly recommended.

Discrete Mathematics (205411/205412) Designed to lay the groundwork for mathematics applications in computer science, business and applied mathematics. It will help prepare students for non-technical careers which use modern technology. Matrices, determinants, probability, logic theory, graph theory and statistics will be used to create models for solving problems. A Texas Instruments TI-83+ or TI-84 graphing calculator is highly recommended.

MATHEMATICS (CONT)

Pre-Calculus (205311/205312) A study of trigonometric functions, geometric concepts from the analytic view of algebraic procedures, functions and calculus underpinnings. Technology will be used for applications and problem solving. A Texas Instruments TI-83+ or TI-84 graphing calculator is highly recommended.

AP Calculus (205811/205812/205813) Advanced Placement Calculus is a three term course intended for students who have a thorough knowledge of college preparatory mathematics including algebra, geometry, and pre-calculus. The course includes limits, differentiation and integration with problem solving and applications. A Texas Instruments TI-83+ or TI-84 graphing calculator is highly recommended.

AP Statistics (206331/206332/206333) Advanced Placement Statistics is a three term course introducing students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. It emphasizes sound statistical thinking rather than routine procedures. Students will be exposed to several broad conceptual themes of Statistics such as exploring data, planning a study, modeling and anticipating patterns, and statistical inference. A Texas Instruments TI-83+ or TI-84 graphing calculator is highly recommended.

PHYSICAL EDUCATION AND HEALTH EDUCATION

Subject	Course Numbers	Units per course	Grade level offered				Prerequisites and Related Information
			9	10	11	12	
Lifetime Fitness Education	234111	0.5	X				Required for all 9 th graders
Health Education I	140111	0.5		X	X	X	None
Health Education II	140121	0.5		X	X	X	Health Education I
Physical Education	230112 (10) 230122 (11-12)	0.5		X	X	X	Passing Physical Education each year is required by the State of Iowa
Adapted Physical Education	231611 /231612	0.5	X	X	X	X	Approval by physician or current goals in the IEP
Practicum in Sports Medicine	235111	0.5		X	X	X	One year experience as a Student Athletic Trainer required. Approval of trainer required.
Lifeguarding	232312	0.5	*X	X	X	X	Must be at least 15 years old at the beginning of this course. A swimming skills pretest is required. See course description. *10 th -12 th grades
Outdoor Education	231311	0.5			X	X	Recommendation of PE staff member; C or better grade in PE; must pass pre-test requirements. Open to all students but taught at Central.
Bigger, Faster, Stronger (BFS)	231401	0.5	X	X	X	X	Recommendation of coach required. Athletes given first priority. Status based on grade (12 th , 11 th , 10 th , 9 th)
Extreme Fitness	230121	0.5	X	X	X	X	For the highly motivated student. Open to all students but taught at Central.
Related Health Occupations	159812	0.5				X	Concurrent with Health Occupations On-the-Job (West only)
Health Occupations On-The-Job	159712	0.5				X	Concurrent enrollment in either related Health Occupations or a specific related class

Lifetime Fitness Education (234111) Combines the physical education and health education curriculum and is a required course for all 9th graders. The students will acquire knowledge and skills regarding lifetime physical fitness; content will include nutrition, stress management, prevention and control of disease, including sexually transmitted diseases and acquired immune deficiency syndrome, current crucial health issues and human sexuality. The students will also participate in physical fitness activities that increase cardiovascular endurance, muscle strength and flexibility, leisure and lifetime activities. There is an additional fee for materials.

Health Education I (140111) Examines critical health issues facing teenagers in today's daily living. Topics to be covered include: alcohol and drug abuse prevention, communicable and non-communicable diseases, sexually transmitted diseases (including AIDS), community resources, community health, CPR, emotional and social health, first aid, nutrition, safety, violence prevention and social skills.

Health Education II (140121) Examines critical health issues facing teenagers in today's daily living. This project-based offering will look at a variety of different health topics and how they relate to a life-long goal of healthy living. Topics include consumer health, family living, community resources, community health, violence prevention, and other critical health issues.

Physical Education (230112 10th -11th grade/230122 11th -12th grade) The program of physical education provides a reasonable balance of those activities commonly grouped as team and individual sports, aquatics, recreational and rhythmical activities. There is an additional fee for materials.

- All students are required to take physical education each year as prescribed by Iowa law. Students who cannot participate in regular physical education classes because of physical limitations are enrolled in adapted physical education classes.
- Students participate in activities from the categories as scheduled. Possible activities are archery, badminton, basketball, CPR and Contemporary Health Issues, floor hockey, football, golf, personal fitness, softball, swimming, team handball, tennis, volleyball, soccer, flag football, pickle ball, yoga, and Tae Bo. Some of these units are available at beginning and advanced levels.
- Success in physical education is directly related to class participation. It is, therefore, important for a student to attend class on a regular basis. Proper gym attire is required. Beginning fall 2005, Physical Education will receive .5 credit and be included in the GPA.