

LITTLEFORK-BIG FALLS SCHOOL DISTRICT

COURSE CATALOG



High School Curriculum

Academic School Year 2017-2018

Approved by Curriculum Committee November 9, 2017

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COURSE DESCRIPTIONS

ART

0607 Art 7 Basic Drawing and Design

9 week required course for grade 7

Students study the functions and impact of art in society and on the individual. They explore the symbolic, expressive and descriptive qualities of the elements and principles of design. They describe, analyze, interpret, and evaluate artwork through guided practice. Drawing units emphasize contour line, proportion, linear perspective, and rendering texture and form with shading techniques. Research and projects in several media deepen understanding and build skills.

0608 Art 8-Art History:

18-week required course for grade 8

Students analyze artwork, and learn the properties, processes, techniques, and history of a variety of art media. Students study the skills and work processes of a variety of art-related careers. Units trace the evolution of painting, sculpture, and architecture of the Western World. Non-Western units address the native arts of Asia, the Middle-East, Africa, and the Americas. Students explore art's relationship with world religions, philosophies, government and other cultural movements. Research and projects deepen understanding and build skills.

0610 Commercial Art 10-12:

year-long elective course for grades 10-11-12

Students study the practical application of photography, graphic design, and illustration. History units span the evolution in photography and printmaking. Students explore both technical and creative aspects of photography. Photoshop® and Illustrator® software is used to refine and alter photos, original illustrations, and hand-rendered lettering. Using InDesign® students explore the use of color, type, and composition to create print products with visual impact that communicate clearly. Emphasis is placed on visual communication, the design process and digital workflow.

0611 Fine Arts 10-12:

year-long elective course for grades 10-11-12

Students study drawing, painting, print-making, collage, multi-media, and ceramics. A review of basic design theory and art history inform projects. Interviews with practicing artists explore workflow, technique, exhibition, marketing, and other professional skills. During a fourth quarter Independent Studio unit students select media, subject matter, and scope of projects. Skill acquisition and facility with each medium is emphasized.

0612 Folk Art 10-12:

a year-long elective course for grades 10-11-12

Students study the traditional art forms of world cultures. They learn the purposes of art objects and explore symbolism, meaning and tradition. Interviews with practicing artists explore workflow, technique, exhibition, marketing, and other professional skills. Research and projects reinforce vocabulary, skills, technique and authentic design. Minnesota craft traditions such as quilting, woodcarving, and beadwork are included. Craftsmanship and personal expression are emphasized.

BUSINESS & TECHNOLOGY

0709 Computer Applications: Computer Applications is a semester course for 9th grade and will prepare students to use several common digital applications for home, college, and business usage in both a PC and Mac platform. Students will learn how to word process, prepare and use spreadsheets, databases, and presentation software, as well as present digital data to an audience in both platforms. Students will gain experience in digital cameras, scanning, Cloud technology, and appropriate digital communication methods. This course will also increase an understanding of computer hardware and immersing technologies in today's world. Basic keyboarding methods will be incorporated throughout this course using the touch method.

0710 Accounting I 10-12: The Accounting I class covers the accounting cycles (debits and credits), journalizing, posting, trial balance, financial statements, and adjusting and closing entries - for both a service-based and a manufacturing based business. Bank services and computerized accounting concepts are introduced. Accounting also covers special journals, payroll records, uncollectible accounts, depreciation, promissory notes, end of period activities for a corporation and computerized accounting activities. The course includes one business simulation incorporating all principles covered during the year.

0711 Internet/Desktop Publishing 10-12: Internet/Desktop Publishing focuses on two large productivity projects; 1) the vision, creation, and production of the school yearbook; and 2) the design, creation, and maintenance of the district website, under the authority of the IT Director and Technology Committee.

Students learn skills in digital communication, effective research and safe, appropriate use of the Internet. The Desktop Publishing portion of the class emphasizes the use as productivity applications to design and create business cards, brochures, booklets, posters, and flyers. Jostens ® web-based application is used for the creation and submission of the yearbook pages. Students will keep track of yearbook sales, financing of the yearbook, and also develop effective written business skills. Students will develop fundamentals in composition, use of color, and typography. Digital photography skills are also covered in this course. Productivity applications are introduced as tools in designing and creating the district website.

0712 Business Professionals of America (BPA) 11, 12: The Business Professionals of America (BPA) class incorporates the knowledge and skills required to develop an employable skill in today's electronic business world and marketplace. Skills emphasized are word processing, communications and correspondence, job skills, tax preparation, personal finance, and entrepreneurship.

0713 Business Math: Business Math is a business course designed to prepare students for roles as business leaders, entrepreneurs, and business producers by developing abilities and skills that are part of any business environment. A solid understanding of math including algebra, basic geometry, probability and statistics provides the necessary foundation for students interested in careers in business and various skilled trades occupations. The content of this course includes mathematical operations related to business principles in accounting, banking and finance, marketing, and management. Instructional strategies include simulations, guest speakers, tours, Internet research, and business experiences. *Prerequisite: Algebra II and/or Advanced Math/Trig.*

XXX Work Study 11, 12: Students in the Work Release program will recognize the educational value of employment and employability skills. Students will work with the Career and Technical Education (CTE) Coordinator to secure (paid and non-paid) employment to recognize skills and abilities required for work in different career clusters. Students will be required to complete necessary paperwork for employment (W-4 form and job application), maintain and fulfill the job description requirements provided by the employer, complete and submit weekly progress reports signed by the Work Release supervisor on site, as well as the CTE supervising instructor. Students will create an employability portfolio outlining their skills acquired, the importance of decision making on the job, and personal career goals based on a self-assessment throughout the program.

130711 ACCOUNTING II – Accounting II is an independent study course which builds upon accounting principles and financial record keeping learned in Accounting I for both a service-based and a manufacturing based business. Accounting II also covers departmentalized accounting, adjustments and valuation, uncollectible accounts, corporate accounting and dividends, budgetary planning and control, cost accounting and financial reporting for a partnership, manufacturing, and not-for-profit business. The course includes two business simulations projects.

200715 Honors Online – Accounting Math 11, 12:

This course is a basic study of the essential mathematical concepts and practical business applications of pricing, discounts, basic payroll calculations, simple interest, compound interest, lump sum and annuity calculations, time value of money, credit card and revolving credit agreements, depreciation methods, and inventory costing methods. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit ACCT 1400 – Accounting Math. This course counts for credit in Business, Math, and Elective. *Prerequisite: Student must attain a passing score on the ACCUPLACER test, Accounting I.*

200717 Honors Online – Business Principals of Marketing 11, 12:

This course is designed to provide the students with an overview of basic marketing principles and practices, centering on the component of the marketing mix and the contribution each component makes toward the overall marketing effort of large and small businesses and organizations. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit BUS 1400. *Prerequisite: Student must attain a passing score on the reading and writing ACCUPLACER test.*

200716 Honors Online – Foundations of Computer Information Systems (CIS) 11, 12:

An introduction to the foundational concepts in Computer Information Systems (CIS), such as number systems, virtual computing, elementary programming, intermediate office productivity software, file formats, communication skills, and common terminology. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit CIS 1402. *Prerequisite: Student must attain a passing score on the reading, writing, and math ACCUPLACER test.*

ENGLISH

0107 English 7: Required course for all seventh graders.

Using the 7th grade Language Arts and Reading textbooks and Study Island's online Minnesota ELA state standards assessments, this full-year course covers grammar usage and sentence structures; writing forms of poetry, letters, directions, and research reports using handwriting and keyboarding skills; oral communication through listening and speaking; and reading comprehension and vocabulary expansion strategies through a variety of genres.

0108 English 8: Required course for all eighth graders.

Using the 8th grade Language Arts and Reading textbooks and Study Island's online Minnesota ELA state standards assessments, this full-year course covers grammar usage and sentence structures; writing forms of poetry, letters, directions, and research reports using handwriting and keyboarding skills; oral communication through listening and speaking; and reading comprehension and vocabulary expansion strategies through a variety of genres.

0109 English 9: Required course for all ninth graders.

Covered in this course are parts of speech, sentence structure, grammar, and usage, and a study of literature including *Great Expectations*, *A Christmas Carol*, *To Kill a Mockingbird* and *Huckleberry Finn*.

0110 English 10: Required course for all tenth graders.

This is a required course for all tenth graders. It will include an introduction to theatre and theaters with creative writing and public performance. A public speaking unit is included in this course with the writing and presentation of speeches. A science fiction unit will introduce the learners the genre through reading, writing and film. A writing unit will include essays, poems, and short stories, culminating in a formal MLA research paper. The final unit is a study of literature by authors from multi-cultural backgrounds, including a study of *Lord of the Flies*.

0113 Everyday English 11, 12:

This is a full-year course focusing on basic reading, writing, and presentation skills. The course will focus on comprehension, grammar and writing works, including research. Reading selections will focus on multi-cultural literature alternating between Native American and African-American works. Much of the coursework will utilize technology in the classroom, including, but not limited to the iPad.

0114 College English I – Comp I 11,12:

This is a college-level composition course focusing on writing expository prose using word processing as a composing tool. Emphasis is on writing as a process, critical reading, developing a voice, and grammar/structure review. Presupposes competency in Standard English. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit English 1106 – College Composition I. **Prerequisite:** *Student must attain a passing score on the ACCUPLACER test.*

0115 College English II – Comp II 12:

This is a second semester college-level composition course focusing on academic writing using primary and secondary sources, including basic research using print and electronic sources. Emphasis is on writing as a process, critical analysis, summarizing, research, logical argumentation, and MLA documentation.

Presupposes competency in standard English. It is offered to qualifying L-BF students in grade 12 in conjunction with Lake Superior College (LSC) for college credit English 1109 – College Composition II.

Prerequisite: *College English I.*

XXXX American Literature: Civil War to the Present 11, 12:

This course includes the study of major American authors and movements from the late 19th century, including American literature written between World War I and World War II to the present. MTC goal areas: (6) Humanities and Fine Arts. It is offered to qualifying L-BF students in grades 11 and 12 in

conjunction with Lake Superior College (LSC) for college credit ENGL 2106. **Prerequisite:** *College English – Comp I, ENGL 1106 or concurrent enrollment.*

XXXX English Literature – 12th to 17th Century 12:

This course is the study of important works of early British literature including those from the twelfth through the seventeenth centuries. It is offered to qualifying L-BF students in grade 12 in conjunction with

Lake Superior College (LSC) for college credit ENGL 2101. **Prerequisite:** *College English – Comp I, ENGL 1106 or concurrent enrollment.*

200116 Honors Online – Interpersonal Communications 11, 12:

This course provides opportunities for students to understand the process of human communication, to assess their strengths and weaknesses as communicators, and to assist them in solving problems of an interpersonal nature, and develop interaction skills for interpersonal settings. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit COMM 1105. This course counts for both L-BF English and Elective credit. **Prerequisite:** *Student must attain a passing score on the ACCUPLACER test.*

FAMILY AND CONSUMER SCIENCE

0807 FACS 7: This one quarter course is divided into three sections: one week of hobby/career interests; four weeks of foods, nutrition, kitchen safety and sanitation, & introduction to cooking; and four weeks of basic sewing which includes using a hidden hand stitch and machine sewing a fleece pillow. **Required course.**

0808 FACS 8: Students will learn the fundamentals of food preparation. Students will also learn how to handle, prepare, and store foods safely, as well as kitchen and home safety. Students also learn about basic cookware, appliances, and utensils. Throughout this course students will be given an introduction to sewing. Students will learn the sewing machine parts and how to use sewing machines accurately and effectively. They will learn about various sewing notions, embellishments and how to create a pattern, measuring techniques, and how to sew a basic pillow. Finally, integrated throughout FACS are manners, relationships with others, communicating with others and responsibility. **Required course.**

0810 FACS 10-12: Foods & Culinary Skills with a focus on career and technical education, including one section of safe food handling for ServSafe test preparation. Students will also create home-cooked meals, low-calorie cooking; food preservation-freezer jam, salsa; breads-baking powder biscuits, dinner rolls, cinnamon rolls, pizza; food additives and nutrition labels; protein cookery-poultry/turkey, a vegetarian lunch; foods from other lands, desserts-pastry, Baked Alaska demo; cost and nutrition analysis; etc. Life Skills- Consumerism, the world of work, banking options, credit, insurances, time and money management, communication, decision-making, goals, and living on your own.

INDUSTRIAL TECHNOLOGY

1007 Shop 7: Shop 7 is a basic introduction to working in the laboratory setting. Seventh grade students begin with a review of fractional math and basic safety. Students work on basic woodworking skills using basic layout tools, hand tools and have a brief introduction to some hand held power tools. The woodworking skills introduced are a predecessor to a small project which incorporates each skill.

1109 Industrial Arts 9: Industrial Arts 9 is divided into three distinct sections. Students will review fractional math and standard measuring practices as well as a comprehensive safety review including a test, which must be passed. Components of the course include: electricity and electrical theory; sheet metal pattern development in which students will make a sheet metal toolbox to take home; woodworking and machine tool practices. Students will use hand held and stationary power tools. This course is extensively project based lab experiences.

1110a Welding 10-12: This is an introductory level course to standard welding procedures. Students will learn and master the safe set up and use of Oxy-Acetylene equipment for both welding, brazing and cutting. Students will learn about the Shielded Metal Arc Welding process. The Gas Metal Arc Welding process (commonly referred to as “wire feed”) is also covered. Instruction in both of these processes include setting up equipment, preparing metal, selecting proper settings and/or rod, and properly welding the metal in a variety of different positions and joint fit ups. This course also includes common metalworking skills and foundations of basic metallurgy. This is not a project based course.

1112 Woodworking 10-12: This is a course based on increasing proficiency in the safe and proper use of all woodworking equipment. All woodworking equipment in the laboratory is thoroughly explained and demonstrated. This is a project base course and every student makes a project whether it is assigned by the instructor or chosen by the student themselves. Every student is expected to master safe set-up and use of standard stationary woodworking machines. Every student is also expected to master safe set up and use of portable power tools and hand tools. Good math skills are an absolute necessity in this class.

1113 Building Trades 10-12: Building Trades is a course that gives career exploration in the construction industry. Generally, students will work together on a project for the duration of the course. In the past, projects have ranged from simple sheds all the way up to full-sized structures. Projects vary depending on the year. Safe and standard building practices are explored. In addition to larger construction projects, a mass production project is run as well. Many different areas of the construction industry are introduced and explored. This course does not deal with any individual projects.

MATH

0207 Pre-Algebra:

This course is taken by all 7th graders. It is their foundation for Algebra readiness. Students will develop an understanding of integers and rational numbers which will allow them to apply their understanding to solving equations and inequalities. Ratios, percentages, rates and proportional reasoning will be emphasized. Geometric relationships including area and volume of prisms and cylinders will be covered. Interpreting data and an introduction to probability will also be covered. **Required course.**

0208 Algebra I: This course is taken by all 8th graders. The intent of this course is to fully develop an understanding of the linear portion of Algebra I. Students will study real number systems, writing, solving and graphing linear equations, exploring functions and linear systems, and applying algebra to real life situations. **Required course.**

Prerequisite: Pre-Algebra 7

0209 Geometry: This course provides students the opportunity to learn how to reason mathematically. This is accomplished by learning the fundamentals of deductive reasoning and how to write proofs for properties of various geometric figures. Figures that will be covered are: polygons including triangles and quadrilaterals, circles, and 3 dimensional solids such as prisms. Methods for finding surface area and volume of such figures will be discussed and the class will be finished up with an introduction to trigonometry.

Prerequisite: Algebra I

0210 Algebra II: This course begins with a review of the basic concepts of algebra. It then includes studies of the following areas: linear and absolute value functions, equations and inequalities, systems of equations and inequalities, quadratic equations and functions, polynomial equations and functions, radical equations and functions, and rational equations and functions including applications of each type of relationship.

Prerequisite: Geometry

0211 Advanced Math/Trig: Students in advanced math study the basic concepts of math analysis and pre-calculus by concentrating on the following topics: logarithms, exponential functions, radical functions, rational functions, probability and statistics, sequence and series, and a comprehensive look at trigonometry. The goal is to develop a strong enough mathematical basis to take College Algebra or above when entering into postsecondary education.

Prerequisite: Algebra II

0212 Calculus 12: Calculus is the in depth study of functions and their natures. Students acquire the ability to derive and integrate functions as well as apply this knowledge to real world problem solving. Other topics addressed are: analysis of trigonometric functions, finding related rates, and finding the volumes of solids created by the graphs of functions. Ultimately, students will be given the option of taking the Advanced Placement exam to attempt to acquire college credit.

Prerequisite: Advanced Math

0713 Business Math 12: Business Math is a business course designed to prepare students for roles as business leaders, entrepreneurs, and business producers by developing abilities and skills that are part of any business environment. A solid understanding of math including algebra, basic geometry, probability and statistics provides the necessary foundation for students interested in careers in business and various skilled trades occupations. The content of this course includes mathematical operations related to business principles in accounting, banking and finance, marketing, and management. Instructional strategies include simulations, guest speakers, tours, Internet research, and business experiences. **THIS COURSE COUNTS AS A MATH CREDIT ONLY FOR SENIORS.** *Prerequisite:* Algebra II.

200215 Honors Online – College Algebra 11, 12:

The study of functions, theory of equations, inequalities, exponential and logarithmic functions, conic sections, and selected topics from advanced algebra. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) in Duluth for college credit. LSC course is MATH 1100 – College Algebra. This course counts for Math and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test, Algebra II 10-12.*

200216 Honors Online – General Statistics 11, 12:

An introductory course in descriptive and inferential statistics for business and pre-professional majors. The following topics will be covered: organizing data, averages and variations around the mean, probability and probability statistics, binomial, normal and sampling distributions, estimations, hypothesis testing, testing variance, regression and correlation, and chi-square analysis. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit MATH 2210. This course counts for Math and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test, Advanced Math.*

200715 Honors Online – Accounting Math 11, 12:

This course is a basic study of the essential mathematical concepts and practical business applications of pricing, discounts, basic payroll calculations, simple interest, compound interest, lump sum and annuity calculations, time value of money, credit card and revolving credit agreements, depreciation methods, and inventory costing methods. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit ACCT 1400. This course counts for Business, Math, and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test, Accounting I.*

MUSIC

0907a Music 7:

This one quarter course will focus on gaining a fundamental understanding and appreciation for music. Topics covered will include the elements of music, families of instruments, and music history.

Required course.

0908a Junior High Band 7-8: Students enrolled in 7-8 Grade Band will be required to demonstrate their knowledge and understanding of music. Students will do this by demonstrating their ability and knowledge of the technical skills required to play an instrument, and perform as part of an ensemble and/or a soloist. Students will study and perform various literature selections relating to individual instruments and genres. Students will also study the fundamentals of Jazz. Students in band are expected to participate in extra-curricular music as well (pep band) and grades may be affected in some cases due to lack of participation. Students in band meet every other day throughout the year and ½ credit is received each year they participate in this class and is applied to the arts requirement needed to graduate High School.

0908b Senior High Band 9-12: Students enrolled in 9-12 Grade Band will be required to demonstrate their knowledge and understanding of music. Students will do this by demonstrating their ability and knowledge of the technical skills required to play an instrument, and perform as part of an ensemble and/or a soloist. Students will study and perform various literature selections relating to individual instruments and genres. Students will also study the fundamentals of Jazz. Students in band are expected to participate in extra-curricular music as well (pep band and Section 7-A Music Contest) and grades may be affected in some cases due to lack of participation. Students in band meet every other day throughout the year and ½ credit is received each year they participate in this class and is applied to the arts requirement needed to graduate High School.

0909a Junior High Choir 7-8: Students enrolled in 7-8 Grade Choir will study music interpretation, elements of singing, demonstration of good posture and breath control, and will gain an understanding music.

Students in choir are expected to participate in extra-curricular music as well and grades may be affected in some cases due to lack of participation. Students in choir meet every other day throughout the year and ½ credit is received each year they participate in this class and is applied to the arts requirement needed to graduate High School.

0909b Senior High Choir 9-12: Students enrolled in 9-12 Grade Choir will study music interpretation, elements of singing, demonstration of good posture and breath control, and will gain an understanding music.

Students in choir are expected to participate in extra-curricular music as well (Section 7-A Music Contest and other events scheduled throughout the course of a year) and grades may be affected in some cases due to lack of participation. Students in choir meet every other day throughout the year and ½ credit is received each year they participate in this class and is applied to the arts requirement needed to graduate High School.

PHYSICAL EDUCATION & HEALTH

1007 Phy Ed 7: Students in Phy Ed 7 will concentrate on, but not be limited to, eleven units of physical activity. Unit 1: Presidential fitness training. Unit 2: Soccer. Unit 3: Basketball. Unit 4: Net Games. Unit 5: Dance. Unit 6: Floor Hockey. Unit 7: Gymnastics. Unit 8: Recreational games. Unit 9: Softball. Unit 10: Recreational games. Unit 11: Fitness and exercise.

1007a Health 7: Students in Health 7 will concentrate on, but not be limited to, three units in this course. Unit 1: The physical health unit will include topics and assessments in understanding health and wellness, taking charge of your health, and personal health and consumer choices. Unit 2: Social/emotional health unit will include topics and assessments in mental and emotional health, building healthy relationships, and conflict resolution and violence prevention. Unit 3: The safety unit will include topics and assessments in personal safety, injury prevention and environmental health.

1008 Phy Ed 8: Students in Phy Ed 8 will concentrate on, but not be limited to, eleven units of physical activity. Unit 1: Presidential fitness training. Unit 2: Soccer. Unit 3: Basketball. Unit 4: Net Games. Unit 5: Dance. Unit 6: Floor Hockey. Unit 7: Gymnastics. Unit 8: Recreational games. Unit 9: Softball. Unit 10: Recreational games. Unit I 1: Fitness and exercise. This course fulfills the criteria for the middle content standard for physical education under the MN Graduation Standards.

1008a Health 8: Students in Health 8 will concentrate on, but not be limited to, three units in this course. Unit 1: The health and fitness unit will include topics and assessments in understanding your health, skills for a healthy life, and physical activity and fitness. Unit 2: The nutrition and substance education unit will include topics and assessments in Nutrition for health, alcohol, tobacco, and other drugs. Unit 3: The Personal safety unit will include topics and assessments that include communicable and non-communicable diseases. This course fulfills the criteria for the middle content standard for personal health under the MN Graduation Standards.

1009 Phy Ed 9: Students in Phy Ed 9 will concentrate on, but not be limited to, twelve units of physical activity. Unit 1: Presidential fitness training. Unit 2: Soccer. Unit 3: Basketball. Unit 4: Net Games. Unit 5: Dance. Unit 6: Floor Hockey. Unit 7: Gymnastics. Unit 8: Recreational games. Unit 9: Softball. Unit 10: Recreational games. Unit 11: Fitness and exercise. Unit 12: Personal Fitness. This course fulfills the criteria for the high school content standard for physical education under the MN Graduation Standards.

1009a Health 9: Students in Health 9 will concentrate on, but not be limited to, three units of study. Unit 1 Human Sexuality and Family Education: sexuality and decision making, adolescence, reproductive system, relationships and decisions about sex, marriage and parenthood, pregnancy and childbirth, abstinence before marriage, contraception, and others' concerns, sexually transmitted disease, HIV/AIDS, and a class project on teenage parenting. Unit 2: Timeline assignment of life exploration. Unit 3: Communicable and non-communicable disease reports.

1010 Phy Ed 10: Students in Phy. Ed 10 will concentrate on, but not limited to, fourteen units of physical activity. Unit 1: Presidential Fitness Testing. Unit 2: Flag Football. Unit 3: Archery. Unit 4: Basketball. Unit 5: Volleyball. Unit 6: Weight Training. Unit 7: Recreational Games. Unit 8: Floor Hockey. Unit 9: Tumbling. Unit 10: Bowling. Unit 11: Golf. Unit 12: Softball. Unit 13: Games. Unit 14: Fitness Exercise. This course fulfills the criteria for the high school content standard for physical education under the MN Graduation Standards.

1010a Health 10: Students in Health 10 will concentrate on, but not be limited to, four units of study. Unit 1 Reinforce the concept covered in Health 9. Human Sexuality and Family Education: sexuality and decision making, adolescence, reproductive system, relationships and decisions about sex, marriage and parenthood, pregnancy and childbirth, abstinence before marriage, contraception, and others' concerns, sexually transmitted disease, HIV/AIDS, and a class project on teenage parenting. Unit 2: A health/wellness related research project of interest to the group. Unit 3: American Red Cross Standard First Aid. Unit 4: Baby Think It Over.

1011 Phy Ed 11, 12: Juniors and seniors in this course will concentrate on, but not be limited to, eleven units of physical activity. Unit 1: Fitness and exercise. Unit 2: Basketball. Unit 3: Net games. Unit 4: Floor Hockey. Unit 5: Recreational games. Unit 6: Archery. Unit 7: Weight lifting. Unit 8: Gymnastics. Unit 9: Golf. Unit 10: Softball. Unit 11: Personal Fitness (In this unit students will be able to plan their own fitness plan based on personal interest.

SCIENCE

0307 Life Science 7: Students will study the six kingdoms of living organisms: Archaeobacteria, Eubacteria, Protista, Fungi, Plantae, and Animalia, including their structure and function. Students will also study the interactions of life: Matter and Energy in the Environment, Populations and Communities, Biomes and Ecosystems, and Using Natural Resources. **Required course.**

0308 Earth Science 8: Students will discuss stars, galaxies, our solar system, the moon, the earth, the atmosphere, the weather, rocks, and erosion. **Required course.**

0309 Physical Science 9: Students will learn the steps of scientific investigation, lab safety, and metrics and measuring. They will discuss atoms, elements, molecules, and compounds. They will learn about chemical and nuclear reactions and energy. **Required course.**

0310 Biology 10: Students will discuss the branches of biology and steps in biological investigation. They will compare and contrast carbohydrates, fats, proteins, and nucleic acids. They will study the structure and formation of cells. **Required course.**

0311 Advanced Biology 11, 12: Students will investigate major concepts in Human Biology, Animal Biology, and Plant Biology.

0313 Physics 11, 12: Students will study of all the natural and physical laws that govern our universe, like gravity and motion. Throughout the year we will focus on Newtonian, Modern, Optical, Electrical/Electromagnetic Physics. Students will be using algebra and trigonometry to solve physics problems. Along with mathematical computations students will also be doing some laboratory work as well as scientific investigations and inquiry.

0314 Chemistry 11, 12: Students will review the physical properties of matter, the scientific method, and units of measurement. They will study the atomic structure, basic atomic theory, and the development of the new atomic model. Students will study gases, gas laws, and properties, compounds in aqueous solutions, and organic chemistry.

0315 Conceptual Physics: Students will investigate the major concepts in the field of physics through a conceptual perspective. Conceptual Physics builds a foundation for studying chemistry, biology, and science in general. Students will then apply these concepts to real life situations.

300316 Honors Online – Introduction to Astronomy 11, 12:

Students in astronomy will be introduced to several aspects of the universe. Students will see how astronomical ideas have developed through history and how our ideas about the universe (and our place in it) have changed. They will investigate the motions of the sun, moon, stars, and visible planets. They will learn to identify the major constellations in the night sky and will become aware of changes that occur in the sky with the passage of the seasons. Student will discover what has been learned through exploration of the planets, moons, and other bodies in our solar system. They will learn how the sun produces energy, and how stars form, evolve, and die. Students will discover how galaxies are organized and what their motions teach us about the origin and evolution of the universe. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit ASTR 1101. This course counts for Science and Elective credit. **Prerequisite:** *Student must attain a passing score on the ACCUPLACER test.*

300317 Honors Online – General Biology 11, 12:

An introduction to the field of biology focusing on unifying biological concepts and principles. Includes the scientific method, life's chemical basis, cell theory, cell structures and function, cellular metabolism and homeostasis, cellular reproduction, genetics and inheritance, evolution, and ecosystem ecology. This course is appropriate for all students. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit BIOL 1120. This course counts for Science and Elective credit. ***Prerequisite:** Student must attain a passing score on the ACCUPLACER test.*

200318 Honors Online – Introduction to Geology 11, 12:

Students are introduced to the materials of the earth's crust and learn how to identify the earth's primary rocks and minerals. Students study the geologic processes of the earth: plate tectonics, volcanic activities, earthquakes, weathering, erosion, glaciation, and landscape change. Other topics include geologic time, earth resources, and environmental problems. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit GEOL 1110. This course counts for Science and Elective credit. ***Prerequisite:** Student must attain a passing score on the ACCUPLACER test.*

SOCIAL STUDIES

0407 American History 7: Students will study the country's history and government from 1850 to contemporary times. The class begins (after the Civil War and Reconstruction) with Americans moving west to present day.

0408 Geography 8: Students will study the regions and various countries of the world. They will look at the culture, politics, and economies of various regions and countries today, and how they have been affected by the physical characteristics of their environment.

0409 Civics/American Government 9: This class will teach the basic function of the U.S. government and the function of citizens in that government. Students will work towards an understanding of the U.S. Constitution and their relationship as citizens with federal, state, and local governments.

0410 US History 10: This class will provide students with an in-depth look at American History from the Pre-Columbian era to modern day society. Students will be given the opportunity to learn about the history that affects us the most today by examining major events in U.S. history with an emphasis on the 19th and 20th centuries. This class will also help to develop a geographic awareness of the United States and the world today.

0411 World History 11: This class will familiarize the students with the physical world as well as the people who live on it. It will stress map skills and the development of a geographic awareness of the world. It will also cover different cultures throughout the world. Study of cultures will include looking at literacy, resources, technology, population, etc. for each area.

0412 Social Issues 12: This class will familiarize the students with the basic principles of sociology, psychology, and economics and the application of these principles to current history and social issues in the United States and the world as they affect the United States. Students will become familiar with the relationship between citizens and the government in the United States, reviewing rights and responsibilities of both.

200413 Honors Online – Minnesota History 11, 12:

This course examines Minnesota's history from the pre-historic and Native American periods through European discovery and American settlement to the present. Topics include: geographical aspects of Minnesota; Native American groups in Minnesota; European exploration and the fur trade; initial American settlement; statehood; the Dakota Conflict; the Civil War; the connection between Minnesotans and the natural environment; the Progressive Era and the 1920's; the Depression and World War II; and the state's economic, cultural, and political history since 1945. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit HIST 2110. This course counts for Social Studies and Elective credit. ***Prerequisite:*** *Student must attain a passing score on the ACCUPLACER test.*

200414 Honors Online – America's War in Vietnam 11, 12:

This course examines the evolution of America's war in Vietnam, including the political, ideological, military, and social history of the Vietnam War. It explores the antecedents and legacies of this now distant conflict, a crucial body of knowledge in understanding recent American history. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit HIST 2130. This course counts for Social Studies and Elective credit. ***Prerequisite:*** *Student must attain a passing score on the ACCUPLACER test.*

200415 Honors Online – Introduction to Sociology 11, 12:

This course involves both an explanation of and active practice in using the sociological perspective to examine the world around us. It introduces Sociology as a discipline and sociological ways of understanding human social interaction and processes such as civilization, deviance, culture/society, and social change. This class teaches the use of Sociology in class via small-group exercises and the use of computers to explore questions about the social world. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit SOC 1111. This course counts for Social Studies and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

200417 Honors Online – General Psychology 11, 12:

A general education course which will familiarize the student with the basic principles of psychology, present a practical application of these principles, show how psychologists employ the scientific method, and equip the beginning student of psychology with a working vocabulary of psychological terminology and critical thinking skills. Areas to be covered include research, theoretical perspectives, the nervous system, learning, personality, memory, psychological disorders, and therapy. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit PSYC 1120. This course counts for Social Studies and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

200420 Honors Online – Introduction to Philosophy 11, 12:

This course will survey some of the major questions that have concerned philosophers throughout history. Included will be a presentation of basic philosophical concepts and vocabulary necessary to understand these concepts. The course will include a discussion of such topics as the existence of God, causality, freewill, and determinism, the mind-body problem, and theories of knowledge and reality. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit PHIL 1120. *Prerequisite: Student must attain a passing score on the reading and writing ACCUPLACER test*

XXXX Honors Online – Political Science 11,12:

This course is an overview of political theory, party politics, constitutional foundations, and the structure, functions, branches, and operations of the American national (federal) government, including Congress, the Presidency, the judiciary, and other federal agencies. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit PSCI 1110. *Prerequisite: Student must attain a passing score on the reading and writing ACCUPLACER test*

OTHER

1400 Study Hall: Non-credit course.

1500 Teacher/Office Aide: Non-credit volunteer experience. At the discretion of the supervising teacher and Principal.

HONORS ONLINE COURSES – ELECTIVE CREDIT ONLY

200416 Honors Online – Classical Greek and Roman Mythology 11, 12:

The course includes important classical Greek and Roman myths, their major archetypal patterns, and their interpretation by various authors. This course is designed as a foundation to prepare students for other literature courses by introducing them to the literary illusions and mythological references found in American, British, and other literatures. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit HUM 1160. This course counts for Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

HONORS ONLINE COURSES – ALL APPROVED LSC COURSES

200116 Honors Online – Interpersonal Communications 11, 12:

This course provides opportunities for students to understand the process of human communication, to assess their strengths and weaknesses as communicators, and to assist them in solving problems of an interpersonal nature, and develop interaction skills for interpersonal settings. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit COMM 1105. This course counts for both L-BF English and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

200215 Honors Online – College Algebra 11, 12:

The study of functions, theory of equations, inequalities, exponential and logarithmic functions, conic sections, and selected topics from advanced algebra. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) in Duluth for college credit. LSC course is MATH 1100 – College Algebra. This course counts for Math and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test, Algebra II 10-12.*

200216 Honors Online – General Statistics 11, 12:

An introductory course in descriptive and inferential statistics for business and pre-professional majors. The following topics will be covered: organizing data, averages and variations around the mean, probability and probability statistics, binomial, normal and sampling distributions, estimations, hypothesis testing, testing variance, regression and correlation, and chi-square analysis. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit MATH 2210. This course counts for Math and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test, Advanced Math.*

200316 Honors Online – Introduction to Astronomy 11, 12:

Students in astronomy will be introduced to several aspects of the universe. Students will see how astronomical ideas have developed through history and how our ideas about the universe (and our place in it) have changed. They will investigate the motions of the sun, moon, stars, and visible planets. They will learn to identify the major constellations in the night sky and will become aware of changes that occur in the sky with the passage of the seasons. Student will discover what has been learned through exploration of the planets, moons, and other bodies in our solar system. They will learn how the sun produces energy, and how stars form, evolve, and die. Students will discover how galaxies are organized and what their motions teach us about the origin and evolution of the universe. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit ASTR 1101. This course counts for Science and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

200317 Honors Online – General Biology 11, 12:

An introduction to the field of biology focusing on unifying biological concepts and principles. Includes the scientific method, life's chemical basis, cell theory, cell structures and function, cellular metabolism and homeostasis, cellular reproduction, genetics and inheritance, evolution, and ecosystem ecology. This course is appropriate for all students. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit BIOL 1120. This course counts for Science and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

200318 Honors Online – Introduction to Geology 11, 12:

Students are introduced to the materials of the earth's crust and learn how to identify the earth's primary rocks and minerals. Students study the geologic processes of the earth: plate tectonics, volcanic activities, earthquakes, weathering, erosion, glaciation, and landscape change. Other topics include geologic time, earth resources, and environmental problems. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit GEOL 1110. This course counts for Science and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

200413 Honors Online – Minnesota History 11, 12:

This course examines Minnesota's history from the pre-historic and Native American periods through European discovery and American settlement to the present. Topics include: geographical aspects of Minnesota; Native American groups in Minnesota; European exploration and the fur trade; initial American settlement; statehood; the Dakota Conflict; the Civil War; the connection between Minnesotans and the natural environment; the Progressive Era and the 1920's; the Depression and World War II; and the state's economic, cultural, and political history since 1945. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit HIST 2110. This course counts for Social Studies and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

200414 Honors Online – America's War in Vietnam 11, 12:

This course examines the evolution of America's war in Vietnam, including the political, ideological, military, and social history of the Vietnam War. It explores the antecedents and legacies of this now distant conflict, a crucial body of knowledge in understanding recent American history. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit HIST 2130. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

200415 Honors Online – Introduction to Sociology 11, 12:

This course involves both an explanation of and active practice in using the sociological perspective to examine the world around us. It introduces Sociology as a discipline and sociological ways of understanding human social interaction and processes such as civilization, deviance, culture/society, and social change. This class teaches the use of Sociology in class via small-group exercises and the use of computers to explore questions about the social world. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit SOC 1111. This course counts for Social Studies and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

200416 Honors Online – Classical Greek and Roman Mythology 11, 12:

The course includes important classical Greek and Roman myths, their major archetypal patterns, and their interpretation by various authors. This course is designed as a foundation to prepare students for other literature courses by introducing them to the literary illusions and mythological references found in American, British, and other literatures. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit HUM 1160. This course counts for Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

200417 Honors Online – General Psychology 11, 12:

A general education course which will familiarize the student with the basic principles of psychology, present a practical application of these principles, show how psychologists employ the scientific method, and equip the beginning student of psychology with a working vocabulary of psychological terminology and critical thinking skills. Areas to be covered include research, theoretical perspectives, the nervous system, learning, personality, memory, psychological disorders, and therapy. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit PSYC 1120. This course counts for Social Studies and Elective credit. *Prerequisite: Student must attain a passing score on the ACCUPLACER test.*

200715 Honors Online – Accounting Math 11, 12:

This course is a basic study of the essential mathematical concepts and practical business applications of pricing, discounts, basic payroll calculations, simple interest, compound interest, lump sum and annuity calculations, time value of money, credit card and revolving credit agreements, depreciation methods, and inventory costing methods. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit ACCT 1400 – Accounting Math. This course counts for credit in Business, Math, and Elective. *Prerequisite: Student must attain a passing score on the ACCUPLACER test, Accounting I.*

200717 Honors Online – Business Principals of Marketing 11, 12:

This course is designed to provide the students with an overview of basic marketing principles and practices, centering on the component of the marketing mix and the contribution each component makes toward the overall marketing effort of large and small businesses and organizations. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit BUS 1400. *Prerequisite: Student must attain a passing score on the reading and writing ACCUPLACER test.*

200716 Honors Online – Foundations of Computer Information Systems (CIS) 11, 12:

An introduction to the foundational concepts in Computer Information Systems (CIS), such as number systems, virtual computing, elementary programming, intermediate office productivity software, file formats, communication skills, and common terminology. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit CIS 1402. *Prerequisite: Student must attain a passing score on the reading, writing, and math ACCUPLACER test.*

200420 Honors Online – Introduction to Philosophy 11, 12:

This course will survey some of the major questions that have concerned philosophers throughout history. Included will be a presentation of basic philosophical concepts and vocabulary necessary to understand these concepts. The course will include a discussion of such topics as the existence of God, causality, freewill, and determinism, the mind-body problem, and theories of knowledge and reality. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit PHIL 1120. *Prerequisite: Student must attain a passing score on the reading and writing ACCUPLACER test*

XXXX Honors Online – Political Science 11, 12:

This course is an overview of political theory, party politics, constitutional foundations, and the structure, functions, branches, and operations of the American national (federal) government, including Congress, the Presidency, the judiciary, and other federal agencies. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit PSCI 1110. *Prerequisite: Student must attain a passing score on the reading and writing ACCUPLACER test*

XXXX American Literature: Civil War to the Present 11, 12:

This course includes the study of major American authors and movements from the late 19th century, including American literature written between World War I and World War II to the present. MTC goal areas: (6) Humanities and Fine Arts. It is offered to qualifying L-BF students in grades 11 and 12 in conjunction with Lake Superior College (LSC) for college credit ENGL 2106. **Prerequisite:** *College English – Comp I, ENGL 1106 or concurrent enrollment.*

XXXX English Literature – 12th to 17th Century 12:

This course is the study of important works of early British literature including those from the twelfth through the seventeenth centuries. It is offered to qualifying L-BF students in grade 12 in conjunction with Lake Superior College (LSC) for college credit ENGL 2101. **Prerequisite:** *College English – Comp I, ENGL 1106 or concurrent enrollment.*