

NEW BERLIN HIGH SCHOOL



Curriculum Guide **2021-2022**

**Community Unit School District No. 16,
New Berlin High School
300 Ellis Street New Berlin, Illinois 62670 (217) 488-6012**

The Mission of Community Unit School District #16, in partnership with parents and community, is to provide quality educational opportunities, resources, and encouragement necessary for our students to...

*achieve their personal best academically and socially

*become responsible and productive citizens

*learn from and adapt to an ever-changing society

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NBHS Graduation Requirements

Students must complete a minimum of 26 credits to graduate from New Berlin High School. The following credits are required for graduation**:

Physical Education/Health/Driver's Education **4.0 Credits**

Must include Health (0.5 credits)

Must include Driver's Education (0.25 credits)

English **4.0 Credits**

Must include English I, II, and III

Mathematics **3.0 Credits**

Must include Math I, II, and III

Science **3.0 Credits**

Must include Integrated Physical Science and Integrated Biology

Social Studies **3.0 Credits**

*Must include World Studies, Early US History & Government,
and Modern US History*

Consumer Education **0.5 Credit**

Personal Finance OR Ag Business Management

Electives **8.5 Credits**

Must include one year of art, music, foreign language, or vocation education.

****These requirements do not apply to students with disabilities whose course of study is determined by an Individualized Education Program.**

Note: Students must be enrolled in physical education OR health courses for every semester enrolled at New Berlin. According to Illinois School Code, students may be waived from physical education class only with a medical excuse or an approved waiver form. **Students may enroll in only one (1) physical education class per semester.**

FAFSA Graduation Requirement:

Starting in school year 2020-2021, to receive a diploma from a public high school a student must complete the Free Application for Federal Student Aid (FAFSA) or, if applicable, the Alternative Application for the Illinois Financial Aid.

Alternatively, a parent or guardian must file a waiver if they choose to opt a child out of this graduation requirement by completing the [Nonparticipation form](#); students who are at least 18 years of age or legally emancipated may complete the form themselves. If you wish to opt yourself or your student out of the Financial Aid Application graduation requirement, please complete this form and return it to the Director of Students Services by October 31, 2021. If you need a copy of this form, please contact the Director of Student Services.

Transfer Students

Transfer students to New Berlin High School are expected to meet graduation requirements in order to receive a NBHS diploma. If a student transferring in does not have a transcript from an accredited organization/institute they will be required to take a placement test(s) to determine grade level placement. It may be necessary for transfer students to take placement test(s) to place them in appropriate course(s).

School Day Requirements

Students are expected to enroll in three-and-a-half (3.5) credits per semester or seven (7) credits per academic year. Seniors enrolled in college courses must enroll in two (2) credits per semester.

Course Prerequisites

Certain courses at NBHS require permission of the teacher and/or previous coursework in order to register for the class. Students must be aware that they assume responsibility for taking the appropriate prerequisites before registering for classes. As such it is imperative that all students develop a four-year plan of study, which will be reviewed by the Student Services Department on an annual basis. All course descriptions and the required prerequisites are described in the following pages.

Changing Courses

Students may drop elective courses at the discretion of a student or parent until the end of the 3rd day of the semester. After that date, no class changes are permitted without special permission from the principal. Changing a course requires the signatures of both a parent/guardian and the teacher. A class change request form with the appropriate signatures must be submitted to the Student Services office by the close of the 3rd day of the semester.

Credit Recovery

Students may enroll in online courses through a program approved by administration during the school year or the summer for credit recovery. If there is a cost, students are responsible for credit recovery tuition. Credit recovery classes will not count toward a student's cumulative GPA.

Concurrent College Enrollment (College Now)

Seniors wanting to take college courses while enrolled in high school may do so if high school graduation requirements can be fulfilled during morning hours. Students must enroll in four courses at NBHS. Additionally, students must obtain an enrollment form signed by their parents and principal, demonstrate an ability to benefit from the college work, and have a cumulative un-weighted GPA of 3.0 or higher in order to enroll. Tuition will be the responsibility of the student. College courses will not count toward a student's cumulative GPA or total credits. Students must enroll in a minimum of 6 credit hours at the college and provide proof of enrollment, attendance, and passing grades to the Student Services Department for each semester of enrollment.

Dual Credit

Periodically, New Berlin High School offers opportunities for Dual Credit courses on campus. These courses are intended for our students who want to obtain college credit while still attending high school. Unlike coursework taken off campus, Dual Credit coursework will be counted toward the student's credit

summary and cumulative GPA. To enroll in dual credit, students must be at least 16 years of age, and a Dual Enrollment Contract must be signed by both student and their parent/guardian prior to admission.

NBHS DUAL CREDIT COURSES

Lincoln Land Community College

- **Students will receive both high school and collegiate credit for the courses listed below.**
- **Students must successfully complete coursework with a grade of “C” or better.**
- **Since these are college courses, it is expected that the student will remain in the course for the entire length of the course. If a student withdraws, it will potentially affect their collegiate financial aid (post-graduation).**

Department	NBHS Course	LLCC Code	# of credits
Agriculture	Agricultural Business Management	ABM 106	3 credits
Agriculture	Agriculture Sales & Marketing	ABM 202	3 credits
Agriculture	Greenhouse Production & Management	HRT 100	1 credit
Agriculture	Greenhouse Production & Management	HRT 102	3 credits
English	*Composition I	EGL 101	3 credits
English	*Composition II	EGL 102	3 credits
Spanish	Spanish III	SPA 101 & 102	8 credits
Spanish	Spanish IV	SPA 201	4 credits

****students must have at least a 2.700 GPA or must score a 18 or higher on the ACT in both English and Reading, or score a 477+ on the SAT in English and Reading or score high enough on the LLCC placement tests as well as earn a minimum score of 230+ on the Spring MAP test of their Junior year in Reading and Language Usage.***

Department	Course	LLCC Code	# of credits
First Semester	Public Speaking Fundamentals	CMN 101	3 credits
First Semester	*Intro to Literature: Multi-genre	EGL 109	3 credits
First Semester	American Politics	POS 101	3 credits
First Semester	General Psychology	PSY 101	3 credits
First Semester	First Year Experience	FYE 101	3 credits

****students must have at least a 2.700 GPA or must score a 18 or higher on the ACT in both English and Reading, or score a 477+ on the SAT in English and Reading or score high enough on the LLCC placement tests***

What is the difference between the First Semester courses and other dual credit courses?

- The First Semester courses are taught by LLCC professors rather than NBHS teachers.
- Students must pay LLCC tuition and fees for First Semester courses, while other dual credit courses have no cost.

CAPITAL AREA CAREER CENTER DUAL CREDIT COURSEWORK

CACC Course	LLCC Course
Agriculture, Food and Natural Resources	
Agricultural & Industrial Mechanics II	ARG 28 Applied Skills in AG Mechanization
Finance and Business Services	
Culinary Arts II	CLA 131 Food Pro I
Health Sciences and Technology	
Emergency Medical Technician	Waiting Approval
Human and Public Services	
Fire Science	Waiting Approval
Information Technology	
IT Networking and Cybersecurity I	CNC 142 Introduction to Ethics, Security and Networking
IT Networking and Cybersecurity II	CNC 241 Security Plus
IT Operations and Programming I	Waiting Approval
IT Operations and Programming II	Waiting Approval
Manufacturing, Engineering, Technology and Trade	
Automotive Technology and Servicing I	AUT 101 Fundamentals of Automotive Technologies
Automotive Technology and Servicing II	AUT 106 Brake Systems
Collision Repair I	AUB 101 Basic Auto Body Repair
Collision Repair II	AUB 102 Auto Body Metal Finishing
Building Trades I	Waiting Approval
Building Trades II	Waiting Approval
HVAC and Electrical System Technology I	Waiting Approval
HVAC and Electrical System Technology II	Waiting Approval
Welding I	WEL 101 Basic Arc & Oxyacetylene Welding
Welding II	WEL 102 Welding Blueprint Reading, WEL 103 Shielded Metal Arc Welding

University of Iowa Transferable College Credit for Project Lead the Way (PLTW)

The University of Iowa offers college credit for 8 PLTW Engineering courses. Students do not need to attend the University of Iowa to receive the college credit. It is University of Iowa transcript credit that may be transferred to other colleges as elective credit. There is no formal agreement between your school and the University of Iowa. This process is driven by parents and students and is fully completed online. If the student earns a stanine of 6 or greater on the End of Course Assessment they are eligible to apply for the college credit. After paying the \$150 fee, the student will receive 3 college credits on a University of Iowa transcript that may be transferred to other colleges as elective credit.

Career & Technical Credit (CTE)

New Berlin High School offers a number of courses on our campus which offer proficiency credit through Lincoln Land Community College via an articulation agreement. Successful completion of these courses with a "C" or better, may lead to certification in specific areas of career and technical education.

"First Semester" Program

"First Semester" will provide a college level experience to high school seniors allowing them to earn dual credit through Lincoln Land Community College, and to develop the necessary readiness and skills for continued postsecondary academic success. Credit earned is posted as college credit on an official LLCC transcript. Courses offered in district high schools make college more accessible to area high school students. Students still participate in high school activities. Students are responsible for the college tuition, textbook rental, and other fees.

Early Graduation

Student(s) who wish to graduate after the 7th semester (first semester senior year) must make this request in writing via a letter along with an application submitted to the Director of Student Services by September 1st of that year. The letter must be signed by both the student AND parent/guardian (regardless of student age). The student's credits will then be reviewed and, if approved by the Director of Student Services will be submitted to the Principal and Superintendent for final approval. Failure to follow this process will result in denial of the request. Students taking correspondence courses for early graduation must also have all coursework and exams finished by the end of the Fall Semester. An early graduate will receive his or her diploma at commencement in May/June.

Student(s) who wish to graduate a whole year early, at the end of Junior year, must make this request in writing via a letter along with an application submitted to the Director of Student services by the end of their Sophomore year. The letter must be signed by both the student AND parent/guardian (regardless of student age). The student's credits will then be reviewed and, if approved by the Director of Student Services will be submitted to the Principal and Superintendent for final approval. Failure to follow this process will result in denial of the request. Students taking correspondence courses for early graduation must also have all coursework and exams finished by the set deadline for the Spring Semester. An early graduate will receive his or her diploma at commencement in May/June.

AVAILABLE COURSE LISTINGS:

AGRICULTURE DEPARTMENT

Suggested Four Year Course Plan:

Year	Class
Freshman	Introduction to Agriculture, Food, & Natural Resource
Sophomore	BSAA-Animals/BSAA-Plants
Junior	Greenhouse Production & Management and/or Agriculture Leadership and/or Ag Business
Senior	Ag Business/Ag Sales & Marketing and/or Greenhouse Prod. & Mgmt. and/or Agriculture Leadership

INTRODUCTION TO AGRICULTURE, FOOD, & NATURAL RESOURCE

SCED Code: 18001A001 (CTE Course)

Recommended Grade Level: 9, 10

Length of Course: 1 year

Credit: 1 credit

Prerequisite: None

This introduction course provides an opportunity for students to learn how the agricultural industry is organized, its major components, the economic influence of agriculture at state, national and international levels, and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics will be presented. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

ANIMAL BIOLOGY (formerly known as BSAA-ANIMAL SCIENCE)

SCED Code: 18101A001 (CTE Course)

Recommended Grade Level: 10, 11, 12

Length of Course: 1 Semester

Credit: ½ credit

Prerequisite: Introduction to Agriculture, Food, & Natural Resource

This course is based on the Next Generation Science Standards (NGSS) – Life Sciences and the National Agriculture, Food and Natural Resources (AFNR) Standards. The relevance of science is conveyed and reinforced through the applied setting of agriculture by enhancing literacy in science and scientific processes as applied to plants and animals. Student learning is extended through scientific inquiry strategies including lab-oriented methods focusing on observational skills, experimental methods, and deductive reasoning. Topics include cell biology, anatomy, genetics, reproduction, heredity, physiology, growth, management and agroecology of plants and animals. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

**This class is typically paired with Plant Biology*

PLANT BIOLOGY (formerly known as BSAA-PLANT SCIENCE)

SCED Code: 18051A002 (CTE Course)

Recommended Grade Level: 10, 11, 12

Length of Course: 1 Semester

Credit: ½ credit

Prerequisite: Introduction to Agriculture, Food, & Natural Resource

This course is based on the Next Generation Science Standards (NGSS) – Life Sciences and the National Agriculture, Food and Natural Resources (AFNR) Standards. The relevance of science is conveyed and reinforced through the applied setting of agriculture by enhancing literacy in science and scientific processes as applied to plants and animals. Student learning is extended through scientific inquiry strategies including lab-oriented methods focusing on observational skills, experimental methods, and deductive reasoning. Topics include cell biology, anatomy, genetics, reproduction, heredity, physiology, growth, management and agroecology of plants and animals. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

**This class is typically paired with Animal Biology*

GREENHOUSE PRODUCTION AND MANAGEMENT

(Dual Credit with LLCC—HRT 100 and HRT 102)

SCED Code: 18053A001 (CTE Course)

Recommended Grade Level: 11, 12

Length of Course: 1 Year

Credit: 1 credit

Prerequisite: Introduction to Agriculture, Food, & Natural Resource, BSAA-Plants

This advanced course offers instruction in both the greenhouse production and landscape areas of horticulture. Units of study include plant identification, greenhouse management, growing greenhouse crops, landscape design, installation, and maintenance, horticulture mechanics, nursery management, and turf production. Agribusiness units will cover operating a horticultural business, pricing work, advertising, and sales. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

AGRICULTURAL BUSINESS MANAGEMENT

(Dual Credit with LLCC—ABM 106)

****Meets Consumer Education Requirement**

SCED Code: 18201A001 (CTE Course)

Recommended Grade Level: 11, 12

Length of Course: 1 semester

Credit: ½ credit

Prerequisite: Introduction to Agriculture, Food, & Natural Resource

This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneur and/or businessperson while incorporating aspects of Dave Ramsey Foundation. Instructional units include: business ownership types, starting an agribusiness, managing and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, agricultural law, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

**This class is typically paired with Agricultural Sales and Marketing*

AGRICULTURAL SALES AND MARKETING

SCED Code: 18202A001 (CTE Course)

Recommended Grade Level: 11, 12

Length of Course: 1 semester

Credit: ½ credit

Prerequisite: Introduction to Agriculture, Food, & Natural Resource

This course is designed to develop student knowledge and skills in agricultural sales and marketing, commodity marketing, agricultural economics, and international agriculture. Instructional units include: successfully starting an agribusiness, developing a marketing plan, pricing, advertising, and selling products and services, communicating with customers, applying commodity trading techniques, basic economic principles, the international agribusiness economy, and agricultural career opportunities. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

**This class is typically paired with Agricultural Business Management*

AGRICULTURE LEADERSHIP

SCED Code: 18203A000

Recommended Grade Level: 11, 12

Length of Course: 1 year

Credit: 1 credit

This course is designed to provide students with the knowledge and leadership experiences to help them to become successful in life and in the workplace. Students will further enhance their potential for leadership development, personal growth, and career success. This will be accomplished by studying various learning styles, personality traits, and career readiness components; such as resume and scholarship building. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

**This is an independent study course and requires an application to be completed by the student and approved by the teacher.*

ART DEPARTMENT

Suggested Four Year Course Plan:

Year	Class
Freshman	Art I
Sophomore	Art II and/or Ceramics
Junior	Advanced Art and/or Mixed Media, and/or Ceramics
Senior	Senior Portfolio and/or Mixed Media, and/or Ceramics

ART I

SCED Code: 05154A000

Recommended Grade Level: 9, 10, 11, 12

Length of Course: 1 year

Credit: 1 credit

Prerequisite: Prerequisite: Interest in art, willingness to work

Art I is a basic art course acquainting students with the many facets of art. Beginning with the elements of art, students will learn the basics. From this point, work is created in various media: graphite, colored pencils, paint, charcoal, chalk, pen and ink, and watercolor. Figure drawing, still life, and some imaginative drawing is done. Three-dimensional work will be explored in the mediums of clay and plaster. A sketchbook with weekly assignments is required. Weekly discussions or writing prompts about art history and contemporary art will be worth a participation grade.

ART II

SCED Code: 05154A000

Recommended Grade Level: 10, 11, 12

Length of Course: 1 year

Credit: 1 credit

Prerequisite: Completion of Art I

In Art II, students will develop skills in composition by working with various media. The areas of printmaking, mixed media drawing, papermaking, and acrylic painting will be explored. Projects in ceramics and sculpture will also be executed. A sketchbook with weekly assignments is required. Weekly discussions or writing assignments about art history and contemporary art will be worth a 10 point participation grade.

Ceramics

SCED Code: 05159A000

Recommended Grade Level: 10, 11, 12

Length of Course: 1 year

Credit: 1 credit

Prerequisite: Completion of Art I

This class will introduce students to building with clay where emphasis will be placed on the design elements; line, shape, texture, and color. In this class we will explore both functional and sculptural applications of clay through studying traditional and historical ceramic artists. Students will also be introduced to using the pottery wheel. Additional skills learned will be glazing application and techniques, kiln firing, and more.

MIXED MEDIA

SCED Code: 05154A000

Recommended Grade Level: 10, 11, 12

Length of Course: 1 year

Credit: 1 credit

Prerequisite: Completion of Art I

Students will be introduced to the art of Photography and Graphic Design. They will explore the unlimited possibilities of creating artwork that integrates traditional mediums (pencil, paint, charcoal, collage, etc.) with contemporary processes (digital images, Photography, Photoshop, etc.). An emphasis will be placed on the elements of art and design with an emphasis on color, mood, texture and composition. Students will produce original artworks and learn skills and techniques associated with a variety of art media.

ADVANCED ART

SCED Code: 05154A000

Length of Course: 1 year

Prerequisite: Completion of Art I and Art II.

Recommended Grade Level: 10, 11, 12

Credit: 1 credit

This course is for students who want an opportunity to advance to a higher level of understanding and skill development in the two-dimensional and three-dimensional areas. Techniques and ideas learned in Art II will be further explored and developed. Students will be expected to express their ideas in a variety of styles and methods. Students will be required to participate in class discussion, discuss works of art, critique a formal work of art, create projects influenced by Contemporary works of Art.

SENIOR PORTFOLIO

SCED Code: 05170A000

Length of Course: 1 year

Prerequisite: Completion of Art I, Art II, and Advanced Art

Recommended Grade Level: 12

Credit: 1 credit

Students will work in an “independent study” format. At the beginning of each semester, students will come up with one “big idea” and create a body of cohesive work focused on his/her theme. This will create a linear body of work for a strong portfolio. Students will learn how to professionally photograph and organize their work into a portfolio that is suitable for college admission and scholarships. Holding critiques will allow students to get feedback and constructive criticism from their classmates. Critiquing also helps to broaden artistic vocabulary and comfort level discussing individual ideas and work. Lastly, students will study various artist statements and construct their own statement of purpose. Approval from the teacher is required prior to enrolling into Senior Portfolio.

COMMUNICATIONS

PUBLIC SPEAKING

SCED Code: 01151A000

Length of Course: 1 year

Prerequisite: Interest in public speaking and communicating effectively.

Recommended Grade Level: 10, 11, 12

Credit: 1 credit

This engaging class will focus on how to communicate effectively. Being able to communicate well is key for success whether it be in school, in the workplace, or in daily life. Students will give formal and informal speeches as well as engage in role plays and debates. Some of the speeches include a Demonstration, a Campaign speech, a Song as a Dramatic Monologue, Impromptu, and a Sales Pitch, just to name a few. Students will learn to organize their ideas in order to deliver their message in the most efficient way. In addition, speech is required in college, so this course will allow college bound students to get prepared.

ENGINEERING (PROJECT LEAD THE WAY)

INTRODUCTION TO ENGINEERING DESIGN

SCED Code: 21006A001 (CTE Course)

Length of Course: 1 year

Prerequisite: None

Recommended Grade Level: 9, 10, 11, 12

Credit: 1 credit

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

PRINCIPLES OF ENGINEERING and AG MECHANICS

SCED Code: 18402A001 (CTE Course)

Length of Course: 1 year

Prerequisite: None

Recommended Grade Level: 9, 10, 11, 12

Credit: 1 credit

This course will concentrate on expanding student's knowledge and experiences through problems that engage and challenge within agricultural mechanics technologies utilized in the agricultural industry. Students will explore a broad range of engineering and agriculture topics, including mechanisms, design, construction, strength of structures and materials, electricity /electronics, internal combustion engines, hydraulics, automation in relation, and employability skills. Careers of agricultural construction engineer, electrician, plumber, equipment designer, parts manager, safety inspector, and other related occupations will be examined. Students develop skills in problem solving, research, design, and computers while learning strategies for design process documentation, collaboration, and presentation. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

ENGLISH DEPARTMENT

Suggested Four Year Course Plans:

Year	Course
Freshman	English I
Sophomore	English II
Junior	English III
Senior	English IV OR Composition I/II OR Dramatic Lit/Literature and the American Dream

ENGLISH I

College Prep/NCAA approved
 SCED Code: 01001A000
 Length of Course: 1 year
 Prerequisite: none

****Required Course****
 Recommended Grade Level: 9
 Credit: 1 credit

The objective of this course will be to acquaint students with various types of literature, improve written and oral communication skills, and develop vocabulary proficiency. The class will study short stories, poetry, dramas, novels, and nonfiction writing. Students will work on improving written and oral communication skills. Students will be required to write a variety of essays both in and out of class. Students will develop an expanded vocabulary, and grammar will be reinforced through writing. (Students may be required to purchase selected novels.)

ENGLISH II

College Prep/NCAA approved
 SCED Code: 01002A00
 Length of Course: 1 year
 Prerequisite: Successful completion of English I

****Required Course****
 Recommended Grade Level: 10
 Credit: 1 credit

The objectives of this course are to continue studying various literary styles and types, improve written and oral communication skills, and develop critical thinking and reading strategies. Students will study a variety of short stories, novels, dramas, and poetry. Students will work on different types of writing. Students will develop an expanded vocabulary, and grammar will be reinforced through writing. (Students may be required to purchase selected novels.)

ENGLISH III

College Prep/NCAA approved
 SCED Code: 01003A000
 Length of Course: 1 year
 Prerequisite: Successful completion of English II

****Required Course****
 Recommended Grade Level: 11
 Credit: 1 credit

The objective of this course is to continue studying various literary styles and types, improve written and oral communication skills, and develop critical thinking and reading strategies. Independent reading will be required. Students will work on academic writing both in and out of class. Students will develop an expanded vocabulary, and grammar will be reinforced through writing. SAT preparation will be an integral element of the class. (Students may be required to purchase selected novels.)

ENGLISH IV

College Prep/NCAA approved

SCED Code: 01004A000

Length of Course: 1 year

Prerequisite: Successful completion of English III

****Required unless English elective is taken***

Recommended Grade Level: 12

Credit: 1 credit

The objective of this course is to continue studying various literary styles and types, improve written and oral communication skills, and develop critical thinking and reading strategies. The materials chosen for this class, whether reading or writing based, are intended to be useful to students who chose either academic or vocational life tracks. Independent reading and academic writing will still be a component. Students will continue to develop an expanded vocabulary, and grammar will be reinforced through writing. A research essay will be required. (Students may be required to purchase selected novels.)

COMPOSITION I

(Dual Credit with LLCC—EGL 101)

SCED Code: 01103A000

Length of Course: 1 semester

Prerequisite: Successful completion of English III students must have at least a 2.700 GPA or must score a 18 or higher on the ACT in both English and Reading, or score a 477+ on the SAT in English and Reading or score high enough on the LLCC placement tests as well as earn a minimum score of 230+ on the Spring MAP test of their Junior year in Reading and Language Usage.

Recommended Grade Level: 12

Credit: ½ credit

The first course in a two-semester sequence of English composition, this course introduces students to academic writing as a process of developing and supporting a thesis in an organized essay. Course topics include methods of invention, development, and organization; the elements of style, including the conventions of standard written English; and an introduction to research and documentation. Students write expository and argumentative essays based on analytical reading and critical thinking.

COMPOSITION II

(Dual Credit with LLCC—EGL 102)

SCED Code: 01103A000

Length of Course: 1 semester

Prerequisite: Successful completion of Composition I with a minimum grade of C

Recommended Grade Level: 12

Credit: ½ credit

This course is designed to enhance and deepen the critical skills of argumentation and academic writing introduced in EGL 101. Students continue to write essays that demonstrate their ability to analyze and evaluate the ideas of others and integrate them into their own writing. The course reinforces student experience with the conventions of standard written English and the conventions of documentation while developing student ability to conduct research and present research within academic discourse communities. Students learn to join one of the many conversations that exists within that specific community in an ethical, accurate and critical manner.

DRAMATIC LITERATURE

College Prep/NCAA approved

SCED Code: 01065A000

Length of Course: 1 Semester

Prerequisite: Successful Completion of English II

Recommended Grade Level: 11, 12

Credit: ½ credit

This English course is a survey of dramatic literature. Students will read and discuss classic plays as well as, in some cases, view and analyze filmed performances of those plays. Emphasis will be placed on theme, recurring images, character motivation, relationships, and theatrical conventions. Through examining plays, students will gain insight into and an appreciation of drama as literature. Drama projects, including acting and directing, will also be required.

**This class is normally paired with Literature and the American Dream*

LITERATURE AND THE AMERICAN DREAM

SCED Code: 01065A000

Length of Course: 1 Semester

Prerequisite: Successful Completion of English II

Recommended grade Level: 11, 12

Credit: ½ credit

This course will be theme driven. Students will examine various types of American literature—novels, plays, short stories, poetry, etc. Appropriate background lectures will accompany each unit. The class will call for informed discussions of the required material in which students will analyze various approaches to the American dream concept. Students will contribute to the class by sharing their personal reading experiences and insights. Formal essays (some including a research component), outside reading, and oral presentations will be required. (Students may be required to purchase selected novels.)

**This class is normally paired with Dramatic Literature*

FAMILY & CONSUMER SCIENCES DEPARTMENT

INTRODUCTION TO FAMILY AND CONSUMER SCIENCE (FCS)

SCED Code: 22201A000 (CTE Course)

Recommended Grade Level: 9

Length of Course: 1 year

Credit: 1 credit

Prerequisite: none

Introduction to Family and Consumer Science is a course designed to introduce students to all areas of family and consumer sciences and serve as a background for all. This composite course is designed to present basic subject matter in six areas:

1. Self and character development
2. Interpersonal and family relationships
3. Personal finance
4. Foods and nutrition
5. Clothing and textiles
6. Housing and the environment

FOODS AND NUTRITION

SCED Code: 16054A001 (CTE Course)

Recommended Grade Level: 10, 11, 12

Length of Course: 1 semester

Credit: ½ credit

Prerequisite: Introduction to FCS

This course includes basic classroom and laboratory experiments needed to develop knowledge and understanding of basic food principles and applied nutrition for people of all ages. The course content centers around the following duty areas: promoting food service preparation management using the decision-making process, meeting basic needs by applying nutrition concepts, meeting health and safety needs by planning, preparing and serving food, maximizing sources when planning/preparing/serving food, promoting hospitality in food practices, and analyzing individual and family nutritional needs in relation to change. Information related to careers in foods and nutrition is incorporated throughout the course.

**This class is normally paired with Baking and Pastry Arts*

BAKING AND PASTRY ARTS

SCED Code: 16056A000

Recommended Grade Level: 10, 11, 12

Length of Course: 1 semester

Credit: ½ credit

Prerequisite: Introduction to FCS

This will be a specialty course that provides a food industry focus while exploring the world of baking. Course topics include: baking techniques, food industry equipment, yeast bread and rolls, quick breads, cookies, pies, specialty desserts, cakes and cake decorating. This course will emphasize particular skills in taste, originality, and creativity. Use of appropriate equipment, kitchen sanitation and rules for kitchen safety be a focus.

**This class is normally paired with Food and Nutrition*

CHILD DEVELOPMENT/PARENTING I

SCED Code: 22204A000

Length of Course: 1 semester

Prerequisite: Introduction to FCS

Recommended Grade Level: 10, 11, 12

Credit: ½ credit

This course emphasizes learning experiences that help students gain knowledge and understanding of family planning, pregnancy, and the development of infants. The course applies decision-making and goal-setting skills; promotes child development by applying physical, social, intellectual, and emotional principles; practices health and safety standards for children; provides experiences which encourage children to maximize resources; encourages human relations skills to children; and evaluates family career changes in relation to impact on children. Information related to careers in child care is incorporated throughout the course.

**This class is normally paired with Child Development II*

CHILD DEVELOPMENT/PARENTING II

SCED Code: 22204A000

Length of Course: 1 semester

Prerequisite: Introduction to FCS

Recommended Grade Level: 10, 11, 12

Credit: ½ credit

This course emphasizes learning experiences that help students gain knowledge and understanding of child development and caring for children after the first year of life through adolescents. The course applies decision-making and goal-setting skills; promotes child development by applying physical, social, intellectual, and emotional principles; practices health and safety standards for children; provides experiences which encourage children to maximize resources; encourages human relations skills to children; and evaluates family career changes in relation to impact on children. Information related to careers in child care is incorporated throughout the course.

**This class is normally paired with Child Development I*

HOME AND INTERIOR DESIGN

SCED Code: 19205A000

Length of Course: 1 semester

Prerequisite: Introduction to FCS

Recommended Grade Level: 10, 11, 12

Credit: ½ credit

This project based course will provide students with basic knowledge and skills needed to select, maintain and manage living environments that meet the needs of the occupants. Course topics will include locating and managing housing using goal-setting and decision-making skills, evaluating living space to meet needs, elements and principles of design and color schemes. Projects will include hands-on experience with creating interior design displays and plans.

**This class is normally paired with Fashion and Clothing Construction*

FASHION AND CLOTHING CONSTRUCTION

SCED Code: 22205A000

Length of Course: 1 semester

Prerequisite: Introduction to FCS

Recommended Grade Level: 10, 11, 12

Credit: ½ credit

This project based course will provide students opportunities to develop knowledge and understanding of textile, fashions and fabrics to assist them in meeting the clothing and fabric product needs of themselves, families, or the general public. Course content will explore fashion history, the impact of clothing on our environment, and maximizing resources in selecting, constructing, altering, repairing, and remodeling clothing/textile products. Sewing machines will be used in this course.

**This class is normally paired with Home and Interior Design*

CAREER SEMINAR

SCED Code: 22152A000

Length of Course: 1 semester

Prerequisite: none

Recommended Grade Level: 11, 12

Credit: ½ credit

Senior Seminar is a course designed to ease the transfer from high school to life after high school. The course will focus on post high school education and career preparation. The following topics will be covered:

1. options after high school
2. education and scholarship applications
3. career interest exploration
4. occupational and transferable skills
5. job applications and interviews
6. resumes, cover letters, post interview letters, resignation letters

**This class is normally paired with Personal Finance*

PERSONAL FINANCE

****Meets Consumer Education Requirement****

SCED Code: 22210A000

Length of Course: 1 semester

Prerequisite: none

Recommended Grade Level: 12

Credit: ½ credit

Personal and family finances throughout life will be the focus of this course. Learning experiences will center on goal-setting, decision making, and prevention strategies that contribute to an improved quality of life. The role of consumers in our economy as well as budgeting, saving, investing, credit, and insurance will be a focus in the course. Projects will align with major financial decisions such as transportation and housing.

FOREIGN LANGUAGE DEPARTMENT

SPANISH I

College Prep/NCAA approved

SCED Code: 06101A000

Length of Course: 1 year

Prerequisite: Working knowledge of English

Recommended Grade Level: 9, 10, 11

Credit: 1 credit

Spanish I will introduce students to the Spanish language through listening, speaking, reading, and writing. Students will learn basic phrases, sentence structure, and conversation skills in the target language. Students will become familiar with the cultures and customs of Spanish speaking countries. This course is conducted in the target language, and is meant for beginners.

SPANISH II

College Prep/NCAA approved

SCED Code: 06102A000

Length of Course: 1 year

Prerequisite: Successful completion of Spanish I or teacher approval

Recommended Grade Level: 10, 11, 12

Credit: 1 credit

Spanish II continues instruction in listening, speaking, reading, and writing in the target language. This study includes required speaking in Spanish, more complex verb tenses, and reading and writing activities. The study of culture and customs of Spanish speaking countries is continued. This course is taught in the target language.

SPANISH III

College Prep/NCAA approved

(Dual Credit with LLCC—SPA 101 and SPA 102)

SCED Code: 06103A000

Length of Course: 1 year

Prerequisite: Successful completion of Spanish II with an average grade of C or better or approval of the teacher.

Recommended Grade Level: 11, 12

Credit: 1 credit

In the Spanish III course, the four skills of reading, writing, listening and speaking in the target language are emphasized. The customs, culture, art, and literature of Spanish speaking countries are studied.

SPANISH IV

College Prep/NCAA approved

(Dual Credit with LLCC—SPA 201)

SCED Code: 06104A000

Length of Course: 1 year

Prerequisite: Successful completion of Spanish III with at least a C average or approval of the teacher

**Students must take the full year to receive dual credit*

Recommended Grade Level: 12

Credit: 1 credit

In the Spanish IV course, the four skills of reading, writing, listening and speaking in the target language are emphasized. The customs, culture, art, and literature of Spanish speaking countries are studied.

Edgenuity Foreign Languages

GERMAN I

SCED Code: 06201A000

Length of Course: 1 year

Prerequisite: Working knowledge of English

Recommended Grade Level: 9, 10, 11, 12

Credit: 1 credit

High school students begin their introduction to German with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German-speaking areas in Europe.

GERMAN II

SCED Code: 06202A000

Length of Course: 1 year

Prerequisite: Successful completion of German I

Recommended Grade Level: 10, 11, 12

Credit: 1 credit

Students continue their introduction to high school German in this second-year course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German-speaking areas in Europe.

LATIN I

SCED Code: 06301A000

Length of Course: 1 year

Prerequisite: Working knowledge of English

Recommended Grade Level: 9, 10, 11, 12

Credit: 1 credit

High school students begin their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments

LATIN II

SCED Code: 06302A000

Length of Course: 1 year

Prerequisite: Successful completion of Latin I

Recommended Grade Level: 10, 11, 12

Credit: 1 credit

Students continue their introduction to high school Latin by continuing to cover the fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, a notable ancient myth in Latin, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

FRENCH I

SCED Code: 06121A000

Length of Course: 1 year

Prerequisite: Working knowledge of English

Recommended Grade Level: 9, 10, 11, 12

Credit: 1 credit

Students in high school begin their introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

FRENCH II

SCED Code: 06122A000

Length of Course: 1 year

Prerequisite: Successful completion of French I

Recommended Grade Level: 10, 11, 12

Credit: 1 credit

Students continue their introduction to French in this second year, high school language course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major French speaking areas across the globe, and assessments.

FRENCH III

SCED Code: 06123A000

Length of Course: 1 year

Prerequisite: Successful completion of French I, and II

Recommended Grade Level: 11, 12

Credit: 1 credit

In this expanding engagement with French, high school students deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, Edgenuity Course Catalog PAGE 22 World Language Courses reading, and writing. In addition, students read significant works of literature in French and respond orally or in writing to these works. Continuing the pattern and building on what students encountered in the first two years, each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and the Americas.

CHINESE I

SCED Code: 06401A000

Length of Course: 1 year

Prerequisite: Working knowledge of English

Recommended Grade Level: 9, 10, 11, 12

Credit: 1 credit

High school students begin their introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries

CHINESE II

SCED Code: 06402A000

Length of Course: 1 year

Prerequisite: Successful completion of Chinese I

Recommended Grade Level: 10, 11, 12

Credit: 1 credit

Students in high school continue their introduction to Chinese in this second-year course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

MATHEMATICS DEPARTMENT

YEAR	COURSE
Freshman	Math 1
Sophomore	Math 2
Junior	Math 3
Senior	Statistics OR Trigonometry OR Pre-Calculus OR Calculus

MATH 1

College Prep/NCAA approved
SCED Code: 02062A000
Length of Course: 1 year
Prerequisite: None

****Required Course****
Recommended Grade Level: 9
Credit: 1 credit

In this course, students will simplify expressions and solve equations and inequalities. Students will identify and use functions. Linear and exponential functions will be emphasized. Students will interpret these functions in relevant, real-world situations, including statistical models. Students will also identify congruent and similar triangles. The connections between algebra and geometry will be emphasized.

MATH 2

College Prep/NCAA approved
SCED Code: 02063A000
Length of Course: 1 year
Prerequisite: Successful completion of Math 1

****Required Course****
Recommended Grade Level: 10
Credit: 1 credit

In this course, students will extend the number system to include complex numbers. Quadratic functions will be emphasized in this course. Students will solve, graph, and model with quadratic equations. Similarity of figures and volume will be emphasized. The study of similarity and right triangles will lead to right triangle trigonometry. Circles and their properties will be covered. Probability will also be a focus. The connections between algebra and geometry will be emphasized.

MATH 3

College Prep/NCAA approved
SCED Code: 0264A000
Length of Course: 1 year
Prerequisite: Successful completion of Math 2

****Required Course****
Recommended Grade Level: 11
Credit: 1 credit

In this course, students will extend their function family to include polynomial, rational, logarithmic, exponential, and trigonometric functions. Each function will be addressed, along with models of each. Students will also prove geometric properties and model with geometry. The connections between algebra and geometry will be emphasized.

STATISTICS

College Prep/NCAA approved

SCED Code: 02201A000

Length of Course: 1 semester or 1 year

Prerequisite: Successful completion of Math 3

Recommended Grade Level: 12

Credit: $\frac{1}{2}$ credit or 1 credit

This course offers an introduction to statistics through the scope of sports. Topics covered will include proportional relationships, numerical data, variability, distributions, and probability. This course is designed to introduce statistical reasoning as a preparation for college statistics, not as a replacement for college Statistics.

PRE-CALCULUS

College Prep/NCAA approved

SCED Code: 02110A000

Length of Course: 1 Semester or 1 year

Prerequisite: Successful completion of Math 3

Recommended Grade Level: 12

Credit: $\frac{1}{2}$ credit

Students will continue the work with the functions from Math 1, 2, and 3. This course will include features of polynomial, rational, and logarithmic equations. It will also include the study of trigonometric functions, identities, the trigonometry in non-right triangles and circles.

TRIGONOMETRY

College Prep/NCAA approved

SCED Code: 02103A000

Length of Course: 1 Semester

Prerequisite: Successful completion of Math 3

Recommended Grade Level: 12

Credit: $\frac{1}{2}$ credit

Students will continue the work with the functions from Math 1, 2, and 3. This course will include the study of trigonometric functions, identities, the trigonometry in non-right triangles and circles.

CALCULUS

College Prep/NCAA approved

SCED Code: 02121A000

Length of Course: 1 year

Prerequisite: Successful completion of Math 3 or Pre-calculus and teacher recommendation

Recommended Grade Level: 12

Credit: 1 credit

This course offers in-depth study of differentiation and integration. Other topics covered include limits, analytical geometry, vectors, and surfaces of rotation. Emphasis will be placed on the application of all topics. Graphing calculators are used extensively. It is strongly recommended that students purchase their own graphing calculator (TI-83, TI-84). Course is designed as a strong foundation to college Calculus, not as a replacement to college Calculus.

MUSIC DEPARTMENT

BAND

SCED Code: 05101A000

Recommended Grade Level: 9,10,11,12

Length of Course: 1 year

Credit: 1 credit

Prerequisite: Previous band experience and consent of the director.

This one-year course is designed for students who have achieved beyond the beginning/intermediate level on their instrument. This course may be repeated yearly for credit. Band includes guidance and direction in instrumental technique, music theory, evaluating pitch, evaluating tone, individual creativity [through performance and composition], and their application to various styles of music in group performance. Sustained effort and regular at-home practice are necessary for success. This course does require multiple after-school and weekend performances for a grade [full schedule available in May of preceding school year]. Students will also have opportunities for travel and special performances. Students who did not participate in band during the previous school year should contact the director before scheduling.

JAZZ BAND

SCED Code: 05105A000

Recommended Grade Level: 9,10,11,12

Length of Course: 1 year

Credit: 1 credit

Prerequisite: Previous band experience and consent of the director.

This course helps students develop their techniques for playing brass, woodwind, and percussion as well as guitars and keyboards, focusing primarily on contemporary stage band literature styles, such as traditional jazz, jazz improvisation, and rock. Students who did not participate in band during the previous school year should contact the director before scheduling.

CHOIR

SCED Code: 05110A000

Recommended Grade Level: 9,10,11,12

Length of Course: 1 year

Credit: 1 credit

Prerequisite: None.

This one-year course is designed for students who wish to learn/further their knowledge and ability to sing. This course may be repeated yearly for credit. Choir includes instruction and coaching in vocal technique, music theory, evaluating pitch, and their application to various styles in a group choral setting. Students will also have the opportunity to engage their creativity through performance and composition. This course does require multiple after-school and some weekend performances for a grade [full schedule available in May of preceding school year]. Students will also have opportunities for travel and special performances.

MUSIC THEORY I

SCED Code: 05113A000

Recommended Grade Level: 10,11,12

Length of Course: 1 Semester

Credit: ½ credit

Prerequisite: None.

The first semester will cover the very basics of music theory from reading notes, building scales and chords, and some basic analysis of music.

**This class normally pairs with Music Theory II*

MUSIC THEORY II

SCED Code: 05113A000

Length of Course: 1 semester

Prerequisite: Successful completion of Music Theory I

Recommended Grade Level: 10,11,12

Credit: ½ credit

The second semester will continue on to more advanced theory. It will cover a more in depth analysis of music along with composition of melody and harmony. Students must complete the first semester to be eligible for the second.

**This class normally pairs with Music Theory I*

PHYSICAL, HEALTH & SAFETY EDUCATION

PHYSICAL EDUCATION

****Required Course****

SCED Code: 08001A000

Length of Course: 1 year

Prerequisite: None

Recommended Grade Level: 9, 10, 11, 12

Credit: 1 credit

Emphasis is placed on team and individual sports and physical fitness. Fitness testing, written tests, and participation determine grades. 4 years of Physical Education is required for graduation, unless a waiver is granted.

ATHLETIC PHYSICAL EDUCATION

SCED Code: 08009A000

Length of Course: 1 year

Prerequisite: None

Recommended Grade Level: 10, 11, 12

Credit: 1 credit

This course is designed to enhance the strength and performance of students along with developing knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning, they may include other components such as anatomy and conditioning.

**Students are unable to take this course alongside Driver's Education.*

ADAPTED PHYSICAL EDUCATION

SCED Code: 08007A000

Length of Course: 1 year

Prerequisite: None

Recommended Grade Level: 9, 10, 11, 12

Credit: 1 credit

This course provides physical education activities (sports, fitness, and conditioning) adapted for students with special needs.

HEALTH

****Required Course****

SCED Code: 08051A000

Length of Course: 1 semester

Prerequisite: None

Recommended Grade Level: 9, 10

Credit: ½ credit

Health Education is a one semester REQUIRED course covering mental health and abnormalities, alcohol and drug use and misuse, sex education, dietary habits, ecology, and safety.

Research

SCED Code: 11151A000

Length of Course: 1 quarter

Prerequisite: None

Recommended Grade Level: 9, 10

Credit: ¼ credit

The primary goal of all Research classes at New Berlin will be to develop the skills to be able to discuss and understand the basics of finding information on the internet. The curriculum will focus on finding reliable resources, how to properly search for resources, and how to cite and use those resources in a paper. The curriculum will be grade appropriate.

**This course is paired with Drivers Education.*

DRIVER EDUCATION

****Required Course****

SCED Code: 08152A000

Recommended Grade Level: 9, 10

Length of Course: 1 quarter

Credit: ¼ credit

Prerequisite: Must have passed eight 1/2 credit courses in the previous two semesters.

The purpose of this course is to provide the information required by law to qualify for a driver's license. The subject areas include driving tasks, interacting with traffic, driving in different environments and conditions, and your responsibilities as a driver.

**This course is paired with Research.*

Drivers Education will be offered to each student at the expense of the district one time; should a student fail the Drivers Education component, the course will need to be taken at an alternate location and will become the financial responsibility of the parent/guardian.

SCIENCE DEPARTMENT

*All students must have 3 science credits to graduate.

**Additional Science coursework is strongly advised for elective choices, particularly if occupations in the Health Sciences are of interest.

Suggested Four Year Course Plans: * = Recommended

Year	Option 1 Technical Track	Option 2 Traditional College Bound	Option 3 Accelerated College Bound	Option 4 Accelerated Medical Bound
Freshman	Integrated Physical Science	Integrated Physical Science	Integrated Physical Science	Integrated Physical Science
Sophomore	Integrated Biology	Integrated Biology	Integrated Biology	Integrated Biology
Junior	Biology II or Chemistry	Biology II or Chemistry	Biology II, Anatomy & Physiology, Physics, Chemistry I	*Chemistry, *Anatomy & Physiology, *Physics, and Biology II
Senior	Biology II or Chemistry	Biology II or Chemistry I	Biology II, Anatomy & Physiology, Physics, Chemistry I	*Chemistry, *Anatomy & Physiology, *Physics, and Biology II

INTEGRATED PHYSICAL SCIENCE

College Prep/NCAA approved
 SCED Code: 03159A000
 Length of Course: One Year
 Prerequisite: None

****Required Course****
 Recommended Grade Level: 9
 Credit: 1 credit

This course is required for all freshmen. This course deals with major topics of chemistry, physics, and Earth science. Topics covered include structure and properties of matter, forces and interactions, energy, wave properties, Earth and the Solar system, plate tectonics, role of water in Earth's surface processes, natural resources, and defining and delimiting engineering problems.

INTEGRATED BIOLOGY

College Prep/NCAA approved
 SCED Code: 03051A000
 Length of Course: 1 year
 Prerequisite: Integrated Physical Science

****Required Course****
 Recommended Grade Level: 10
 Credit: 1 credit

This course is required for all sophomores and through discussion and group investigations focuses on cellular function including topics of homeostasis, cell transport, cellular respiration, photosynthesis, meiosis, mitosis and the chemistry of life. The principles of evolution will be discussed along with genetics and gene expression. Ecological relationships will also be stressed during the study of populations, ecosystems, biological communities, and the environment. This class has microscope work and laboratories.

BIOLOGY II

College Prep/NCAA approved

SCED Code: 03052A000

Length of course: 1 Year

Prerequisite *Completion of Integrated Physical Science and Integrated Biology

Recommended Grade Level: 11, 12

Credit: 1 credit

Basic knowledge of microscopy and general biology is required. This course includes botany, zoology, and microbiology. Botany is designed to show the evolution of plant life on Earth and the modern plant's physical structure and ecological impact. Microbiology includes the study of bacteria, viruses, and protists. Zoology will cover an introduction to animals and a comprehensive study of major invertebrate and vertebrate animal phyla as they developed evolutionarily. Several dissections, including the fetal pig are required.

ANATOMY AND PHYSIOLOGY

College Prep/NCAA approved

SCED Code: 03053A000

Length of Course: 1 year

Prerequisite: *Completion of Integrated Physical Science and Integrated Biology with a B or better and qualifying test scores.

Recommended Grade Level: 11, 12

Credit: 1 credit

A detailed study of the human body, this course is designed to study 11 systems of the body and their structure, position, function, and relationship to the other systems. Wellness and illness of the lifespan will be discussed in detail for each organ systems including genetic and bacterial diseases, and cell dysfunction. This course includes laboratory experiments and dissections, including a required cat dissection. This course is designed for those students who plan to pursue a career in a science related field or medical field.

CHEMISTRY

College Prep/NCAA approved

SCED Code: 03101A000

Length of Course: 1 year

Prerequisite: Completion of Integrated Physical Science and Integrated Biology with a B or better and qualifying test scores

Recommended Grade Level: 11, 12

Credit: 1 credit

Chemistry is the study of the composition, structure, and properties of matter and the changes that matter undergoes. Areas of study include SI measurement; scientific inquiry; scientific method and laboratory skills; atomic structure; elements; compounds; covalent; ionic, and metallic bonds; molecular geometry; conversion of mass and energy; formula equations; stoichiometry, and the gas laws.

CHEMISTRY II

College Prep/NCAA approved

SCED Code: 03102A000

Length of Course: 1 year

Prerequisite: Grade of B or better in Chemistry, and qualifying test scores

Recommended Grade Level: 12

Credit: 1 credit

Topics of study will include solutions, ions in aqueous solutions and colligative properties, acids and bases, Acid-base titrations, organic chemistry, and biological chemistry. Topics from Chemistry I will be reviewed. Laboratory experiments will supplement topics covered in class. This course is designed for those students who plan to pursue a career in a science related field.

PHYSICS

College Prep/NCAA approved

SCED Code: 03151A000

Length of Course: 1 year

Prerequisite: Grade of B or better in Math II or Math III and Integrated Physical Science, and qualifying test scores

Recommended Grade Level: 11, 12

Credit: 1 credit

Physics is the study of matter and energy and their relationship. The topics covered are SI measurements, motion, forces, gravity, momentum, energy, work, and temperature. Laboratory experiments will be performed to supplement the topics covered in class.

SOCIAL STUDIES DEPARTMENT

Suggested Four Year Course Plans:

Year	Class
Freshman	World Studies
Sophomore	Early United States History and Government
Junior	Modern United States History <i>*consider Introduction to Psychology or Sociology (as elective)</i>
Senior	Introduction to Psychology and/or Sociology

*Additional Social Studies coursework is strongly advised for elective choices

WORLD STUDIES

Required Course

SCED Code: 04053A000

Length of Course: 1 Year

Prerequisite: None

Recommended Grade Level: 9

Credit: 1 credit

The course covers major events in world history, including the development and influence of human geographic relationships, political and social structures, economics, science and technology, and the arts. Students investigate major religions and belief systems throughout history and learn about the importance of trade and cultural exchange. Other topics include the development of agriculture, the spread of democracy, the rise of nation states, the industrial era, the spread of imperialism, and the issues and conflicts of the twentieth century. The objective of this course is to increase student awareness of changing cultural and physical environments; know the past through the incorporation of literacy skills and higher order and critical thinking activities; and act in ways that promote the common good.

EARLY UNITED STATES HISTORY AND GOVERNMENT

Required Course

SCED Code: 04102A000

Length of Course: 1 Year

Prerequisite: None

Recommended Grade Level: 10

Credit: 1 credit

This course begins by examining the historical basis of the U.S. Government, examination of the three branches of government, and a study of state governments. The course will also suggest to the student the importance of the individual in shaping governmental policy. The United States and Illinois Constitutions tests will be given and must be passed to meet graduation requirements. The course will continue by examining the events, trends, individuals, and movements that shaped the history of the United states from its founding to the Reconstruction time period. The objective of this course is to increase student awareness of changing cultural and physical environments; know the past through the incorporation of literacy skills and higher order and critical thinking activities; and act in ways that promote the common good.

MODERN UNITED STATES HISTORY

****Required Course****

SCED Code:04103A000

Length of Course: 1 Year

Prerequisite: None

Recommended Grade Level: 11

Credit: 1 credit

This course reviews American history from the industrial revolution of the late nineteenth century to recent events. The course covers; settlement of the Great American West; issues of immigration and urban life; and the hopes, demands, and challenges African Americans and women faced as they sought equality. Other topics include: the World Wars; the American Dream; the Civil Rights movement; Vietnam; Watergate; Reaganomics; immigration trends; the Clinton years; and the new millennium. The objective of this course is to increase student awareness of changing cultural and physical environments; know the past through the incorporation of literacy skills and higher order and critical thinking activities; and act in ways that promote the common good.

INTRODUCTION TO PSYCHOLOGY

College Prep/NCAA approved

SCED Code: 04255A000

Length of Course: 1 Year

Prerequisite: None

Recommended Grade Level: 11, 12

Credit: 1 credit

The objective of this course is to introduce students to the systematic study of mental processes and human behavior. The course will focus on the effects of mental processes on observable behavior. Students will explore various aspects of psychology, including major psychological theories and theorists, the anatomy of the brain, consciousness, perception, psychological disorders, and developmental psychology.

SOCIOLOGY

College Prep/NCAA approved

SCED Code: 04258A000

Length of Course: 1 year

Prerequisite: None

Recommended Grade Level: 11, 12

Credit: 1 credit

This course is designed to introduce students to the systematic study of social behavior and human groups. The class will focus on the influences of social relationships in people's attitudes and behaviors. Students will study basic theories and perspectives used in sociology, key sociological concepts, social hierarchies, and social institutions such as marriage, religion, education, and government. The class will then apply what they have learned to better understand the impact of issues on today's society and individuals.

Miscellaneous Course Offerings

ADVANCED PLACEMENT COURSES (On-Line)

Recommended Grade Level: 11, 12

Prerequisite: Dependent upon courses selected

Length of Course: 1 Year

NBHS offers a variety of on-line Advanced Placement Courses through Illinois Virtual School and Edgenuity. We are an approved AP National Testing Site, so students that complete an AP Course can take the AP Placement Exam on the National Testing Day set by the College Board and receive college credit if they meet the assessment score needed to qualify to earn the college credit in the course. For a listing of the courses available through Edgenuity, click [HERE](#) and look at page 2. Students that take an AP course through Edgenuity will not be charged a course fee, as we have a subscription/licence for Edgenuity.

For a listing of the courses available through IVS, click [HERE](#) and find the courses that are marked "AP Option". Students that take the AP course through IVS will be charged the course fee as assessed by IVS.

CAPITAL AREA CAREER CENTER (CACC)

Recommended Grade Level: 11, 12

Prerequisite: Dependent on program, Junior standing

Length of Course: 1 or 2 years

Various vocational courses are offered to New Berlin High School through the Capital Area Career Center. The district provides transportation to afternoon vocational programs. Applications are available from the Director of Student Services and are due in February of the year prior to the year the student plans to attend. Students must apply and be approved for enrollment by the principal. A student must be registered as a full-time student at New Berlin High School to meet course registration requirements. Space and funding for these programs is limited, and the District 16 Board of Education reserves the right to deny acceptance.

CACC Course
Agriculture, Food and Natural Resources
Agricultural & Industrial Mechanics I Agricultural & Industrial Mechanics II Horticultural Production & Management
Arts and Communications
Audio/Video Production I Audio/Video Production II Graphic Arts I Graphic Arts II Photography I Photography II
Finance and Business Services
Culinary Arts I

Culinary Arts II
Health Sciences and Technology
Emergency Medical Technician Nursing Assistant Medical Assistant
Human and Public Services
Early Childhood I Early Childhood II Cosmetology I COsmetology II Fire Science Law Enforcement I Law ENforcement II
Information Technology
IT Networking and Cybersecurity I IT Networking and Cybersecurity II IT Operations and Programming I IT Operations and Programming II
Manufacturing, Engineering, Technology and Trades
Automotive Technology and Servicing I Automotive Technology and Servicing II Collision Repair I Collision Repair II Building Trades I Building Trades II HVAC and Electrical System Technology I HVAC and Electrical System Technology II Electronic and Engineering I Electronic and Engineering II Welding I Welding II
Workforce Development
Cooperative Education

FIRST SEMESTER PROGRAM

Recommended Grade Level: 12

Prerequisite: meet all graduation requirements by end of first semester of senior year

Length of Program: 1 semester (final semester of senior year)

"First Semester" will provide a college level experience to high school seniors allowing them to earn dual credit through Lincoln Land Community College, and to develop the necessary readiness and skills for continued postsecondary academic success. Credit earned is posted as college credit on an official LLCC transcript. Courses offered in district high schools make college more accessible to area high school students. Students still participate in high school activities. Students are responsible for the college tuition, textbook rental, and other fees.

SANGAMON CEO (CREATING ENTREPRENEURIAL OPPORTUNITIES)

Recommended Grade Level: 12

Sangamon CEO is about Creating Entrepreneurial Opportunities (CEO). It is a year-long experience that aims to empower talented young adults to become innovator problem-solvers and enterprising, action-oriented entrepreneurs. Students visit area businesses, learn from experts, participate in a class business, write business plans, and start and operate their own business.

While emphasizing real-world learning over textbooks, the class is linked to Common Core and national entrepreneurship education standards. Students are selected for the class through a rigorous application process, including letters of recommendation and an entrepreneurial profile. Grades are not the defining admission standard.

The class meets for 1 ½ hours each school day from 7:30-9:00 am at a multitude of locations throughout the area. The program is open to all Sangamon County high school seniors in good standing that can provide their own transportation to our many class sites.

TEACHING ASSISTANT

Recommended Grade Level: 11, 12

Prerequisite: Cumulative Grade Point Average (GPA) is at least 2.5., Academic Eligibility, no attendance letters on file, letter of recommendation, and completion of essay prompt

Length of Program; Semester or year

The Teacher Assistant (TA) Program will focus on assisting teachers in a classroom by tutoring students and actively becoming a part of the educational process for one period per day. Student TA's work with teachers at New Berlin Jr./Sr. High School.

Alternative Education Placements

SASED CENTRAL (SASED)

Recommended Grade level: 9, 10, 11, 12

Prerequisite: IEP/Referral Only

Length of Program: Varies

The SASED Central educational program consists of academic instruction appropriate to grade placement, academic achievement, and individual needs. High school students will receive instruction in required elective courses to meet the graduation requirements of the Illinois State Board of Education. Vocational opportunities and life skills classes are available for identified students. In all cases, instruction is individualized in consideration of the student's unique needs as documented in their Individual Educational Program (IEP).

SANGAMON COUNTY LEARNING ACADEMY (SCLA)

Recommended Grade Level: 9,10,11,12

Prerequisite: Referral Only

Length of Program: Varies

The Sangamon County Learning Academy currently exists as an alternative placement for students who have exhausted the resources available at NBHS. SCLA has small class sizes which focus on cooperative and interactive learning strategies. SCLA serves truants, chronic truants, and dropouts. Referrals come from NBHS administrators. The program is designed so that students have the flexibility of either returning to NBHS at the end of a semester, enrolling in both Capital Area Career Center and SCLA and/or completing the alternative program at SCLA and graduating from their home school.

SAFE SCHOOLS PROGRAM

Recommended Grade Level: 8,9,10,11,12

Prerequisite: Referral Only

Length of Program: Varies

This program is designed to provide an alternative setting for a very small percentage of students who have been expelled, chronically disruptive or suspended multiple times. The program is flexible in order to meet the needs of individual students and districts. The academic component of the curriculum is a self-paced computer based program. The teacher student ratio is kept low in order to enhance the success of the students. All teachers are trained in Aggression Replacement Training to enable them to best meet the behavioral needs of the students.

For additional information about these programs, contact the Director of Student Services at NBHS:

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