

**Byron Area High School**  
312 W. Maple Ave.  
Byron, Michigan 48418  
(810) 266-4620



## **2022/2023 Course Offerings**

NOTE: Courses may be canceled due to lack of sufficient enrollment or financial reasons.

You need to go to Xello to complete your course requests for next year.

- You must complete the required portions of your Educational Development Plan in Xello BEFORE you complete scheduling. This is required by the State of Michigan.
- You will also be selecting your courses for next year in Xello.

It is the policy of Byron Area Schools that no person shall, on the basis of age, race, color, limited English proficiency, national origin, sex or handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination during any program or activity or in employment.

Any questions concerning Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap, should be directed to: Title Coordinator, Byron Area Schools, 312 W. Maple, Byron, MI 48418.

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**BYRON HIGH SCHOOL  
GRADUATION REQUIREMENTS**

<b><i>Subject</i></b>	<b><i>Career-Focused Requirements</i></b>
Mathematics (Must include a math class taken during the senior, or 5 <sup>th</sup> , year)	4
Science (Students must have one credit of Biology, one credit of Physical Science, and one additional science credit)	3
Social Studies (Students must have World History/Geography, 20 <sup>th</sup> Century America, and Govt/Econ)	3
English (9, 10, 11 & 12 required)	4
P.E./Health	1
Visual, Performing, & Applied Arts	1
World Language	2
On-line Learning Experience	20 hours
<b>Class of 2023</b>	22.5
<b>Class of 2024 and after</b>	22

## CLASS OFFERINGS WHICH MEET SPECIFIED GRADUATION REQUIREMENTS

- Credits must be received in starred items

- Courses cannot meet more than one requirement with the exception of the 20-hour online experience (courses that meet this requirement can be used to meet other requirements as well)

### English

\* English 9, \* English 10, \* English 11, \* English 12 –or- Advanced Placement English Literature

### Science

\* Biology (Biology or Biology in Agriculture), \* Physical Science, Chemistry, Physics, Anatomy & Physiology, Greenhouse Horticulture, Zoology & the Environment, Geosystems, Health Science Academy (Baker College), other courses at GCI (see Ms. Smith)

<p><u>9<sup>th</sup> Grade</u> Biology Biology in Agriculture</p>	<p>} <b>One of these is required</b></p>	<p><u>10<sup>th</sup> Grade</u> Physical Science--<b>required</b> Zoology &amp; the Environment</p>
<p><u>11<sup>th</sup> Grade</u> Chemistry Physics Anatomy &amp; Physiology Geosystems Greenhouse Horticulture Health Science Academy (Baker College) GCI options</p>		<p><u>12<sup>th</sup> Grade</u> Chemistry Physics Anatomy &amp; Physiology Geosystems Greenhouse Horticulture Health Science Academy (Baker College) GCI options</p>

### Mathematics

Pre-Algebra, \* Algebra I, \* Geometry, \* Algebra II, Precalculus, Calculus or Advanced Placement Calculus

### Social Studies

\* World History/Geography, \* Twentieth Century America, \* American Government, \* Economics, Psychology/Sociology

### Physical Education--½ credit required

P.E. I

### Health--½ credit required

Health and Human Systems

### Visual, Performing & Applied Arts

Band, Vocal Music, Art I, 2D/3D Art, Advanced Art, Landscape Horticulture, Machine Tool I & II, Applied Technology, Intro to Engineering Design, Computer Integrated Manufacturing, Principles of Engineering

### World Language—2 years of the same world language

The State is now allowing students to replace the second year of a world language with a Career and Technical Education (CTE) experience. To fulfill this second year requirement, students must be a completer in Agri-Science, Machine Tool, Business Management, or Accounting. To be a completer, students must earn at least a “C” in the below required sequence of courses for one of the above programs.

**Agri-Science** = Biology in Agriculture –AND- Zoology and the Environment

**Machine Tool** = Applied Technology –AND- Machine Tool (you cannot use Machine Tool as both your 2<sup>nd</sup> year of a world language and your 4<sup>th</sup> year math—it can only be one or the other)

You may also replace that second year with a second year of a VPAA (Visual, Performing & Applied Arts) course.

**20 Hour On-line Learning Experience**—this Michigan Merit Curriculum diploma requirement is met throughout your high school years in a variety of ways

**4<sup>th</sup> Year Math-Related Credit**—the following courses may count as your fourth year of math as long as the course is taken during the senior year and it is related to your career pathway as indicated on your EDP within Xello. \*  
**You must see Ms. Smith before the beginning of your senior year if you want one of these classes to count as your fourth-year math-related class \***

Agri. Business Mechanics, Agri. Business Construction, Personal Finance, Physics, Machine Tool I/II, Auto Services I/II (Baker College), other courses at the GCI (see Ms. Smith)

**Electives**—other classes not listed above are electives

## AGRI-SCIENCE

1191 BIOLOGY IN AGRICULTURE

GRADE 9

1192

This class is the first year Agri-Science class. Areas covered during the year will be FFA history, leadership development, and biology content necessary to meet graduation requirements through the production of livestock in a real-world, hands-on setting. Animal husbandry will be emphasized and work with livestock inside and outside of class will be required. Since the FFA Organization is an integral part of any Agri-Science curriculum, membership in the local, state, and national associations is a required part of this course, as is attendance at one night meeting per month and participation in the various FFA activities (fruit and nut sale, work auction, and banquet).

1141 ZOOLOGY & THE ENVIRONMENT

GRADE 10

1142

Prerequisite—Biology in Agriculture

Zoology and the Environment is a course for 2<sup>nd</sup> year Agriculture students that will cover the domestication of livestock and general livestock management techniques. The course will also cover basic environmental principals such as soil, water and air quality as well as integrated pest management. Indoor and outdoor labs will be integrated throughout the course as experiential learning is a key component of all agriculture science courses. Since the FFA Organization is an integral part of any Agri-Science curriculum, membership in the local, state, and national associations is a required part of this course, as is attendance at one night meeting per month and participation in the various FFA activities (fruit and nut sale, work auction, and banquet).

1121 AGRI-BUSINESS MANAGEMENT/CONSTRUCTION

GRADES 11 – 12

1122

Prerequisite-Biology in Agriculture –AND- Zoology and the Environment

This course is taught during the third and fourth year of enrollment in the Agri-Science curriculum. The content of the course will consist of principles of building construction, concrete technology, farm business management and entrepreneurship. The farm business management and entrepreneurship areas will cover marketing and decision making. There is also a unit on electrical technology with practical experience in simple electrical wiring as well as plumbing. Since the FFA Organization is an integral part of any Agri-Science curriculum, membership in the local, state, and national associations is a required part of this course, as is attendance at one night meeting per month and participation in the various FFA activities (fruit and nut sale, work auction, and banquet). Students must also conduct a satisfactory supervised agricultural experience program. Offered every other year. *This does NOT count as a science credit. If taken during the senior year, this course may count as the 4<sup>th</sup> year of math-related credit. See Ms. Smith to verify your credits if you choose this option BEFORE school starts in the fall.*

1171 LANDSCAPE HORTICULTURE

GRADES 11 – 12

1172

Prerequisite-Biology in Agriculture –AND- Zoology & the Environment

In this class, you will learn to design and maintain landscape beds. You will learn the principles and techniques of landscape design using hand-drawn and computer-generated drawings. Hands-on learning activities outside and in the greenhouse include preparing planting diagrams, installation and maintenance of landscaped areas, and propagation of landscape materials. In class assignments will include drawings, plant identification, basic botany and career exploration in the green industry. Since the FFA Organization is an integral part of the Agri-Science curriculum, membership in the local, state, and national associations will be required, as is attendance at one-night meeting per month and participation

in the various FFA activities (fruit and nut sale, work auction, and banquet). Offered every other year. This course does not count as a science credit. **This course satisfies the VPAA credit needed for graduation.**

## INDUSTRIAL TECHNOLOGY

1230 INTRO TO ENGINEERING DESIGN GRADES 9 – 12

1231

Introduction to Engineering Design (IED) is a high school level foundation course in the PLTW Engineering Program. In IED students are introduced to the engineering profession and a common approach to the solution of engineering problems, an engineering design process. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

Through both individual and collaborative team activities, projects, and problems, students will solve problems as they practice common engineering design and development protocols such as project management and peer review. Students will develop skill in technical representation and documentation of design solutions according to accepted technical standards, and they will use current 3D design and modeling software to represent and communicate solutions. In addition the development of computational methods that are commonly used in engineering problem solving, including statistical analysis and mathematical modeling, are emphasized. This class is primarily on a computer. Students should be prepared for this. **This course satisfies the VPAA requirement.**

1236 COMPUTER INTEGRATED MANUFACTURING GRADES 10 – 12

1237

Prerequisite: Intro to Engineering Design –OR- instructor approval

Computer Integrated Manufacturing (CIM) is the study of manufacturing planning, integration, and implementation of automation. This course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. This reflects an integrated approach that leading manufacturers have adopted to improve safety, quality, and efficiency. Students will have the opportunity to earn college credit depending upon their level of academic success. This is the second class using the Project Lead the Way grant. **This course satisfies the VPAA requirement.**

1238 PRINCIPLES OF ENGINEERING GRADES 10 – 12

1239

Prerequisite: Algebra I –AND- successful completion of either Intro to Engineering Design or Computer Integrated Manufacturing.

Principles of Engineering (POE) is a foundation course of the high school engineering pathway. This survey course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

Students have the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APB) learning. By solving rigorous and relevant design problems using engineering and science concepts within a collaborative learning environment, APB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem-solving skills. Students will also learn how to document their work and communicate their solutions to their peers and

members of the professional community. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education. **This course satisfies the VPAA requirement.**

1281 APPLIED TECHNOLOGY GRADES 9 - 12  
1282

This class will include one semester in the Metal Shop and one semester in the Woodshop. In the Metal shop students will be introduced to the following areas: shop safety, CNC machining, mig and arc welding, sheet metal construction, lathe operation, vertical mill operation and project and layout planning. In the woodshop students will be introduced to the following areas: shop safety, planing and joining, table saw operation, bandsaw operation, finishing techniques and project planning. **This course satisfies the VPAA requirement.**

1283 MACHINE TOOL I GRADES 10 - 12  
1284

Prerequisite—Applied Technology –OR- Instructor Approval

This course will be a continuation of Applied Technology. Machine Tool will only be in the Metal shop. Students will practice advanced operations in the machining and fabricating areas. Such operations will include: machining skills, measuring and layout, precision grinding, welding technologies, and inspection and testing. Students will also have training on computer controlled machining machines. Safety in the work environment will be practiced daily throughout the course. Geometry and math concepts will be used daily along with reading and writing. **This course may satisfy the VPAA requirement –OR- if taken during the senior year, this course may count as the 4<sup>th</sup> year of math-related credit. See Ms. Smith to verify your credits if you choose this option.**

1287 MACHINE TOOL II GRADES 11 - 12  
1288

Prerequisite—Machine Tool I –AND- instructor approval

This course will be a continuation of Machine Tool I. Students will practice advanced operations in the foundry, machining and fabricating areas. Such operations will include: machining skills, measuring and layout, precision grinding, welding technologies, and inspection and testing. Students will also have training on computer controlled machining machines. Safety in the work environment will be practiced daily throughout the course. Geometry and math skills will be used daily along with reading and writing. The course will be largely based on lab assignments that will include more complex projects. Craftsmanship will be a growing category for grading as students progress with their machining and fabricating skills. The instructor of this class would also help with work experience placements at local manufacturing facilities when they are available. **This course may satisfy the VPAA requirement –OR- if taken during the senior year, this course may count as the 4<sup>th</sup> year of math-related credit. See Ms. Smith to verify your credits if you choose this option.**

## LANGUAGE ARTS

3011 ENGLISH 9  
3012

The main focus of this course will be to improve basic reading and writing skills. The writing process will be used and reading selections will come from the course selected literature book, and current event selections. Students will keep a reading and writing journal. Over the course of the year, three book reports will be required, there will be a study of Shakespeare's Romeo and Juliet, and there will be a formal, typed research paper assigned.



3031 ENGLISH 10  
3032  
This course is designed for the student who realizes a personal need for additional work in reading and writing skills. Areas of study include grammar, paragraph writing, analyzing the novel, introduction to poetry, and the short story.

3051 ENGLISH 11 GRADE 11  
3052  
This course will acquaint the student with major American authors and with the process of American writing. The mechanics of our language will also be taught, and writing skills will be further developed. There will be study of Twain's Huckleberry Finn, and there will be a formal, typed research paper assigned.

3071 ENGLISH 12 GRADE 12  
3072  
Students in this class will concentrate on improving their reading and writing skills. The study of English grammar is emphasized (sentence structure, usage, and mechanics) and compositions are written on a regular basis. A research paper is part of the second semester as well as the reading of some classical authors.

3091 ADVANCED PLACEMENT ENGLISH LITERATURE & COMPOSITION GRADE 12  
3092  
This course is designed for the college-bound student and is equivalent to a first year college course. Therefore the workload will be heavier than the typical high school class. Semester grades will be weighted on a 5.0 scale for any grade C- or above. In May, students will have the option of taking the nationwide Advanced Placement exam (there is a fee associated with taking this optional test). If a high enough score is achieved on this test, students can earn college credit for this course. Authors studied will mainly be American and British though a few selections will come from the classical tradition.

## MATHEMATICS

4101 PRE-ALGEBRA GRADE 9  
4102  
Students will master essential skills for success in later Algebra courses. They will solve, apply, and analyze linear equations and systems of linear equations. They will define, evaluate, and compare functions, and use functions to model relationships. Students will graph linear functions. They will work with radicals and integer exponents and approximate non-rational numbers. They will learn and apply basic Geometry involving transformations of two-dimensional figures, the Pythagorean Theorem and volumes of three-dimensional shapes. They will learn and apply basic Statistics involving scatter plots, lines of best fit, and frequency tables.

4201 ALGEBRA I GRADE 9  
4202  
In this course, students will study expressions, equations, inequalities, factoring, and linear, absolute value, quadratic, exponential, power, and basic polynomial functions. It also will include work in statistics, specifically scatter plots, correlation, and linear regression. An emphasis will be placed upon function families and mathematical modeling, and problem solving.

4301 GEOMETRY GRADE 9 - 10  
4302  
The objective of the course is to provide students with problem solving skills through logical reasoning and perseverance. The course will investigate relationships of triangles, quadrilaterals, polygons, circles,

and three-dimensional figures as well as the manipulation of figures using transformations and trigonometry. The disciplines of probability and statistics will also be studied.

4501 ALGEBRA II GRADES 10 - 12  
4502

Prerequisite/Corequisite--Geometry

In this course, students will continue and expand on the algebra concepts they learned in Algebra I. We will focus our study on piecewise, quadratic, exponential, logarithmic, polynomial, and radical functions. We will also study sequences and series. An emphasis will be placed upon function families, mathematical modeling, and problem solving.

4651 ADVANCED ALGEBRA GRADES 11 – 12  
4652

Prerequisite—Algebra II

This course is for the college-bound student that has completed Algebra II, but may not be ready for Precalculus or Calculus. The class will focus on factoring, rational operations and functions, radical operations and functions, function transformations, function combination, matrices, and trigonometry.

4801 PRECALCULUS GRADES 11 – 12  
4802

Prerequisite—Algebra II

In this class, a strong Algebra II background is needed. We will extend our study of exponential, logarithmic, quadratic, polynomial, rational, and trigonometric functions. An emphasis will be placed upon function families, mathematical modeling, and problem solving. We will also study conic sections, polar coordinates, parameterizations, matrices, and vectors. **\*PreCalculus is a prerequisite for Calculus\***

4851 CALCULUS GRADES 11 – 12  
4852

Prerequisite—Precalculus

In this course, we will study introductory Calculus. It will require a strong knowledge of Precalculus. Students will be asked to understand basic Calculus concepts, including differentiation and **basic introductory** integration, and apply them to solve application problems using critical thinking skills. This course is designed for the college-bound student and is equivalent to a first semester college Calculus 1 course. Therefore, the workload will be heavier than the typical high school class.

4751 ADVANCED PLACEMENT CALCULUS GRADES 11 - 12  
4752

Prerequisite—Precalculus

In this course, we will study introductory Calculus. It will require a strong knowledge of Precalculus. Students will be asked to understand basic Calculus concepts, including differentiation and integration, and apply them to solve application problems using critical thinking skills. Semester grades will be weighted on a 5.0 scale for any grade C- or above. This course is designed for the college-bound student and is equivalent to a first year college course. Therefore the workload will be heavier than the typical high school class. In May, students will have the option of taking the nationwide Advanced Placement exam (there is a fee associated with taking this optional test). If a high enough score is achieved on this test, students can earn college credit for this course.

## MISC OPTIONS

1361 PERSONAL FINANCE GRADES 11 – 12  
1362

Credit cards can be extremely dangerous. Did you realize paying rent is like pouring money down the drain? Would you rather pay someone upwards of \$100, or prepare your own tax return? Do you understand the importance of saving?

These are just a few of the topics you will learn much more about in this year-long class. We will also research budgets, checking accounts, credit, investments, real estate, insurance, and several other areas concerning your personal finances. We will be using the internet, multi-media applications, and project-based learning to help give real-life examples. **Possible 4<sup>th</sup> year math-related credit if taken during the senior year (See Ms. Smith—MUST be declared PRIOR to the start of your senior year).**

3081 YEARBOOK GRADES 10 – 12  
3082

Note: 9<sup>th</sup> graders may enroll in Yearbook with counselor/teacher approval

Yearbook students will be involved in the basics of layout, design, photography, and photo-editing software as they work through various phases of yearbook production. They will be involved with budget planning, fundraising, and ad sales. NOTE: students may expect to work after school as well as some weekends and/or summer days in order to meet deadlines. Dependability, initiative and the ability to meet deadlines will be crucial components to success in this course. **Please do not sign up to work on the yearbook if you're not committed and willing to put in the effort. \*This course may be repeated for credit\***

## MUSIC EDUCATION

2001 BAND GRADES 9 - 12  
2002

The band will perform at required activities such as concerts, festivals, football games, parades, school assemblies, and other related functions throughout the year. Approval of the band director is necessary for participation in the high school band. Transfer pupils and new candidates will be auditioned by the band director.

2201 VOCAL MUSIC GRADES 9 - 12  
2202

All kinds of music will be sung. Performances at scheduled concerts and festivals are required, in addition to some in-class work. All students must maintain a genuine interest in music and performance.

## PHYSICAL EDUCATION/HEALTH

2552 PHYSICAL EDUCATION I (1 semester)

This semester course is taken opposite Health and is designed to provide a well-rounded physical fitness program along with the development of motor skills used in team sports. This class is worth ½ credit.

2551 HEALTH AND HUMAN SYSTEMS (1 semester)

A semester course taken opposite P.E. I. This course is designed to cover a wide range of current health topics. This class is worth ½ credit.

2583 ADVANCED PHYSICAL EDUCATION GRADES 10 – 12  
2584

Prerequisite—PE I

This is a co-educational physical education class offered to students who have successfully passed PE I. The class is for the students who want to be physical and to participate and compete in physical education. The activities will include, but will not be limited to, units such as fitness, running, weight lifting, tennis, badminton, and volleyball. **May NOT be taken at the same time as any other physical education or fitness class.**

## SCIENCE

5151 BIOLOGY GRADE 9 - 10  
5152

This course is designed to meet the Michigan High School Content Standards and to prepare all students for the PSAT by providing instruction in cell structure and function, and genetics, as well as other fundamental biological processes. Second semester involves a complete survey of the five kingdoms involving identification and dissection. Lab work is emphasized.

5901 PHYSICAL SCIENCE GRADES 9 - 10  
5902

Prerequisite—Biology or Biology in Agriculture -AND- Algebra I

With technology and lab work, this class will strengthen your science skills and knowledge in the following areas: forces, matter, electricity, energy and light. **\* Students that have completed Chemistry or Physics may not take Physical Science. \***

5401 CHEMISTRY GRADES 11 - 12  
5402

Prerequisite—Biology or Biology in Agriculture –AND- Physical Science

A course in basic, general inorganic chemistry with a brief introduction to organic chemistry. A study which will cover the basic laws of chemistry and develop an ability to approach and solve problems. Laboratory work will be an integral part of the learning experience.

5501 PHYSICS GRADES 11 - 12  
5502

Prerequisite—Biology or Biology in Agriculture –AND- Physical Science; Geometry (with Algebra II current enrollment)

Physics is a detailed and experimental study of natural phenomena such as motion, forces, heat, sound, light, electricity, and magnetism. **Possible 4<sup>th</sup> year math-related credit if taken during the senior year (See Ms. Smith—MUST be declared PRIOR to the start of your senior year).**

5301 ANATOMY & PHYSIOLOGY GRADES 11 - 12  
5302

Human anatomy and physiology of the body's 10 systems are emphasized. Pig dissection is used to illustrate and understand 7 of the systems. Lab work is an integral part of the class.

5350 GEOSYSTEMS GRADES 11 – 12  
5351

Geosystems integrates content from geology, astronomy, oceanography and meteorology by exploring various forms of technology and social and environmental issues.

## SOCIAL STUDIES

6201 WORLD HISTORY/GEOGRAPHY

GRADE 9 - 10

6202

This course is a study of the history of the world beginning with Mesopotamia. Topics to be studied include: the Greeks, the Romans, the Middle Ages, the Renaissance, the Age of Discovery and Modern Times. This course is a survey of the land and people of the world. Map skills will be stressed. The role geography plays in current events will be discussed.

6351 TWENTIETH CENTURY AMERICA

GRADE 9 - 10

6352

History since 1901 will be the focus of this year long course. Students will construct and interpret time lines of people and events since the turn of the century. They will analyze significant events that shaped the United States as well as identifying the benefits and challenges of diversity in American life. The course will cover the following: America at the turn of the century, World War I and the United States, the Roaring Twenties, the Great Depression, America in World War II, the Korean War, the Sixties, the Vietnam War, Watergate, America at the end of the Twentieth Century.

6501 AMERICAN GOVERNMENT/ECONOMICS

GRADE 11 - 12

6502

A study into the "process of American Government" with emphasis on development of both the skills and know-how necessary for effective involvement in the government process. Economics is a course designed to give the student a basic understanding of how they, as a consumer, fit into the American economy. Areas of study will include our marketing and distribution system. The students will investigate the philosophical and theoretical foundations of the capital enterprise system and compare and contrast those with other economic systems from different areas of the world.

6851 GLOBAL ISSUES

GRADES 10 - 12

6852

This class will keep pace with the monumental changes taking place in Europe, the Middle East, South America, and other places around the world. Students will learn how geography and environmental factors effect the development and interaction of the world's cultures. In the second semester, students will delve more deeply into the cultural, political, geographical, and historical issues that shape the world today. *Offered every other year opposite Psychology/Sociology.*

## VIRTUAL LEARNING

**Any student wishing to take an online, or virtual, class must see Ms. Smith for an application. Filling out an application DOES NOT guarantee admission into the program.** Applications may be denied for the following reasons: 1) the student has previously gained the credits provided from the completion of the online course; 2) the online course is not capable of generating academic credit; 3) the online course is inconsistent with the remaining graduation requirements or career interests of the student; 4) the student does not possess the prerequisite knowledge and skills to be successful in the online course or has demonstrated failure in previous online coursework; 5) the online course is of insufficient quality or rigor; or 6) a comparable course is offered 'in person' by a Byron staff member. Courses that may be eligible can be found on [www.gennet.us](http://www.gennet.us) or [micourses.org](http://micourses.org).

## VISUAL ARTS

- 2101 INTRO TO ART (ART I) GRADES 9 - 12  
2102
- This course will be an introduction to visual art, with a primary focus on the elements and principles of art and design. Students will learn how to create art *using* Line, Shape, Form, Color, Texture, Space, and Value to create works of art *considering* Balance, Emphasis, Movement, Rhythm, Unity, Contrast, and Pattern. Students will experience a variety of techniques and materials. Class will be mainly project-based, but will also entail an introduction to looking at, discussing, and writing critiques on works of art.
- 2131 2-DIMENSIONAL ART GRADES 10 – 12
- Pre-requisite—Intro to Art (Art I)
- 2-D Art will focus on 2-dimensional methods and media: drawing with multiple materials, painting, watercolors, and printmaking. Advanced-level concepts for subject matter. Students MAY take a second time as an advanced option with instructor approval. *Offered every other year opposite 3-D Art.*
- 2121 ADVANCED ART GRADES 11 - 12  
2122
- Prerequisite—Art I -AND- 2D or 3D Art -AND- instructor approval
- This class is for the student who wants to continue in art through his four years of high school; it can be taken for three years for credit. Emphasis will be placed on the development of a portfolio. The advanced student will also be required to put together a mini exhibit, which will be displayed at the Byron Art Show. Advanced students will be working in depth with projects such as drawing, painting, sculpting, and printmaking, as well as commercial projects that will include designing advertisements, cartooning, etc. A serious attitude with a love of art is needed for this class. May be repeated for credit with instructor approval.

## WORK EXPERIENCE PROGRAM

**\*\* This program must be applied for. See Ms. Smith for an application. Filling out an application DOES NOT guarantee admission. \*\***

- 1451 WORK EXPERIENCE PROGRAM—see Ms. Smith or Mr. Howard GRADES 11 - 12
- This program is for students who wish to get on-the-job experience while in high school. Your job must be related to your career pathway as stated on your EDP in Xello during scheduling and will require paperwork and supervision by school personnel. Duties performed will be those agreed upon at the time the employer-student-school agreement is signed. A separate application must be submitted to participate in this program.

## WORLD LANGUAGE

- 3151 WORLD LANGUAGE GRADES 9 - 12  
3152
- Select this if you need/want to take a world language in 22/23. This class will explore the beginning and most basic structure of the language that you will be taking. Students will learn beginning structure of conversation, vocabulary and sentence structure.

## BAKER COLLEGE PARTNERSHIP

- \* For all Baker College classes, students must have a 2.5 minimum GPA\*
- \* You can also attend Baker for general requirements with the goal of transferring to a different institution/college after your associate's degree \*

AUTO SERVICES—go to [www.sresd.org](http://www.sresd.org) to apply

GRADES 11 - 12

Trained and certified in all areas of vehicle service, master technicians use their advanced mechanical, technical, and troubleshooting skills to inspect, maintain, and repair cars and light trucks. In today's market, those who understand new and sophisticated vehicle and service technologies and have advanced training and certifications in multiple areas have the best job opportunities and earning potential. Graduates in Auto Service Technology have a 94% employment rate from the Auto/Diesel Institute.

CRIMINAL JUSTICE—go to [www.sresd.org](http://www.sresd.org) to apply

GRADES 11 – 12

Earn college credit in the Criminal Justice Program, which will provide students with exposure to the purposes and career opportunities available in a criminal justice setting. Coursework in this program will prepare the student for a variety of associate and baccalaureate degree programs such as: Corrections, Criminal Justice and Public Safety. Students will study the history of policing and corrections, policing and patrol techniques, the courts system, and much more. Students will be exposed to the Michigan Commission on Law Enforcements Standards which guide the curriculum and learning experiences as the law enforcement academies in Michigan.

CYBERSECURITY—go to [www.sresd.org](http://www.sresd.org) to apply

GRADES 11 – 12

These classes will provide students with the foundation to move forward for a Bachelor of Science degree in IT and Security and will assist students in preparation for the CompTIA A+ Essentials Exam, CompTIA Network+ and LPIC I. With so much of our personal information stored and used online, the demand for network security and defense against malicious attacks is greater than ever. Baker College has received the prestigious designation of National Center of Academic Excellence in Cyber Defense Education from the National Security Agency and the Department of Homeland Security.

DIESEL SERVICES TECHNOLOGY—go to [www.sresd.org](http://www.sresd.org) to apply

GRADES 11 – 12

Diesel Service Technicians inspect, maintain, repair, and overhaul buses, trucks, and other vehicles with a diesel engine. Their work is varied; they may work on a vehicle's electrical system, make major engine repairs, or do routine maintenance. Continuing advances in diesel technologies to improve performance have made it essential to have up-to-date training and skills. This is predominately a hands-on course where students also participate in activities outside the classroom such as Skills USA competition and field trips. Graduates in Diesel Service Technology have a 94% employment rate from the Auto/Diesel Institute

HEALTH SCIENCE ACADEMY—go to [www.sresd.org](http://www.sresd.org) to apply

GRADES 11 – 12

Earn college credit in the Health Science Academy Program, which provides students with an introduction to a variety of healthcare occupations and knowledge of the coursework/career path necessary to enter into various health occupations. This course consists of classroom instruction and clinical rotations, and students will have the opportunity to earn their American Heart Association CPR certification and job shadow with various medical professionals. In year 2, students will have the opportunity to complete Certified Nursing Assistant (CNA) coursework. The coursework in this class is based on the National Health Care Foundation Standards and Accountability criteria.

WELDING—go to [www.sresd.org](http://www.sresd.org) to apply

GRADES 11 – 12

Welders use welding equipment to join metal parts or fill holes, indentions, or seams in metal products. Anything made of metal can be welded: cars, trucks, aircraft, skyscrapers, bridges, pipes, sculptures, and more. The basic skills of welding are the same across industries so the more you know how to do, the easier it is to shift to other types of work. Note: An associate degree program in Industrial and Manufacturing Technology from the College of Engineering is available to students after graduating from the Welding certificate program.

## SHIAWASSEE COUNTYWIDE PROGRAMS

CULINARY—go to [www.sresd.org](http://www.sresd.org) to apply

GRADES 11 – 12

Students enrolled in Mott Community College programs will receive intensive training in all phases of the restaurant business and will graduate with the high level of expertise necessary to become a professional in any area of the foodservice business. Students enrolling in the Early College option are eligible to remain in high school an additional year to attend the Mott Culinary Institute in pursuit of an associate degree culinary program of their choice. All tuition and books are paid for while you are in high school and attend classes at the Culinary Institute in Flint. The first year course content will be housed at Byron High School for the 22/23 school year.

ELECTRICAL—go to [www.sresd.org](http://www.sresd.org) to apply

GRADES 11 – 12

Students in the two year Electrical Program will be introduced to electrical theory, electrical safety, proper use of tools and equipment, circuits, breakers and fuses, residential wiring, reading electrical blueprints, wiring devices, lighting circuits, conductors and cables, soldering and splicing techniques, low-voltage switching, load calculations, and residential services. Students will learn employment, communication, professionalism, and trade skills necessary for entry level employment. Students will engage in a variety of activities that balance direct instruction and training with actual hands-on experiences. Students will also have the opportunity to earn an OSHA 10 Certification. The course content will be housed at Byron High School for the 22/23 school year.

TEACHER CADET—go to [www.sresd.org](http://www.sresd.org) to apply

GRADES 11 – 12

Students will have the opportunity to explore the many aspects of teaching. They will also receive classroom experience while working with teachers in their own district. This classroom experience provides the potential of earning 30 exploratory hours that may be applied to future credentials/applications. The course content will be housed at Owosso High School for the 22/23 school year.

## COLLEGE OPTIONS

Early College—5<sup>th</sup> year option

- County applications will be available and due in spring of the sophomore year

Regular Dual Enrollment

- Dual enrollment applications must be completed before leaving for the summer. This includes completion of placement testing, registration for college class(es) and proof of enrollment turned in to Ms. Smith. There is required paperwork that must be completed by Ms. Smith as well before summer vacation.
- Baker College—applications due May 11, 2022
  - GPA ≥ 2.5



- Cleary University—application deadline TBD
  - GPA ≥ 2.0
- Lansing Community College—applications due May 11, 2022
  - GPA ≥ 2.0 –AND- placement tests
- Mott Community College—applications due May 11, 2022
  - GPA ≥ 2.0 –AND- placement tests
- University of Michigan—Flint (DEEP)—applications due February 1, 2022
  - GPA ≥ 3.0 –AND- PSAT scores to be determined
  - First year students may take: First semester—COM 200 & HIS 114; Second semester—ARH 112 & PSY 100
  - Second year students may take: First semester—ART 120 & BIO 104; Second semester—COM 170 & PHL 101
  - Courses may change depending on staffing

### **GENESEE CAREER INSTITUTE**

\*These are for grades 11 – 12 only. See Ms. Smith for the application. Students must provide their own transportation to the GCI\*

#### G1001 CONSTRUCTION TRADES

Introduction to many of the skilled and professional career opportunities in the construction industry Use professional tools and technology to learn the construction trade • Students will practice skills required in the residential, commercial, and civil branches of construction • Attend field trips related to the construction field, and travel to regional, state, and national Skills USA competitions • Develop skills for immediate employment with contractors, and earn industry certifications • Construction Advanced studies available for second year students

#### G1048 DIGITAL ART, DESIGN & BROADCASTING

Learning rotations in five areas: Drawing and Illustration, Photography, Graphic Design, Video, and Printing • Operate high tech equipment in a modern print and design studio • Work alongside professional art directors using industry software and quality computers • Create solutions to client-driven jobs while honing artistic skills in drawing, graphic design, photography, & animation/video • Operate high-tech video and audio equipment in a modern production studio • Create story boards, scripts, and production schedules for team projects and public service announcement • Digital Art, Design and Broadcasting Advanced studies available for second year students to focus in one or more of the five rotation areas

#### G1008 RISK MANAGEMENT AND INSURANCE

• Investigate the field of insurance, including marketing, claims adjusting, underwriting, and financial planning • Work with industry professionals to gain insights on the details of personal and commercial insurance and finance • Visit local insurance companies; participate in a student organization and travel to compete at state and nationals • Get a head-start by earning direct college credits through Olivet College and possible paid summer internship • Earn a national insurance designation from the Insurance Institutes of America, and develop skills for employment. *Junior completers may return for a senior year of advanced studies with internship placement.*

#### G1014 VETERINARY MEDICINE

• Handle and care for a wide variety of live animals from small to large, building the human animal bond • Develop knowledge of animal medical terminology, anatomy, infections, ethics, safety, and employability • Perform activities essential for the operation and management of a typical veterinary clinic • Visit a large zoo and participate in FFA local, state, and national conventions and competitions • Get a head-start by earning college credit through MSU and Baker College; earn industry recognized certifications. *Junior completers may return for a senior year of advanced studies with internship placement.*

- G1026 COSMETOLOGY
- Work alongside professionals as you cut and style hair, provide nail services, apply make-up and skin care products
  - Increase comprehension of the theory of cosmetology and develop practical skills by doing hands-on activities
  - Attend a national hair show in Chicago; participate in a student organization, traveling to competitions
  - Get a head-start by earning college credit recognized at multiple colleges and other schools of cosmetology
  - Develop marketable skills for immediate employment, and earn industry recognized certifications. *Junior completers may return for a senior year of Cosmetology II.*
- G1017 GAME PROGRAMMING
- Write object oriented programming code to create your own 3-D virtual environment, including characters
  - Play X-box and other systems to research themes, sequencing, scoring, and other aspects of game creation
  - Visit related college programs, and participate in a student organization, traveling for competitions
  - Get a head-start by earning college credit recognized by multiple colleges and universities
  - Develop marketable skills for immediate employment, and earn industry recognized certifications
  - Game Programming Advanced studies available for second year students. Will include Unity and Virtual Reality programming
- G1030 US ARMY JUNIOR RESERVE OFFICER TRAINING (JROTC)
- Develop leadership, teamwork, citizenship, and self-discipline, in a positively structured military environment
  - Perform physical fitness activities, explore military science and history, government, geography, and more
  - Participate in community service by presenting colors with the honor guard, and by helping those in need
  - Get a head-start by attending military schools and qualify for scholarships to multiple college ROTC programs
  - Earn advanced rank placement if enlisting in any military branch
  - *All completers may return for another year of advanced studies – enlistment is not required.*
- G1038 COMPUTER HARDWARE TECHNICIAN
- Build, maintain, troubleshoot, and repair personal computers
  - Install hardware, configure systems, upgrade components, diagnose and fix problems
  - Visit related college programs, and participate in a student organization, traveling to competitions
  - Get a head-start by earning college credit recognized by multiple colleges and universities
  - Develop marketable skills for immediate employment, and earn industry recognized certifications. *Junior completers may return for a senior year of advanced studies with internship placement.*
- G1049 MARKETING & ENTREPRENEURSHIP
- Create and manage several aspects of business, such as product development, distribution, marketing, and sales
  - Work as a team to develop a business plan, maintain a budget, design a webpage, all within a flipped class setting
  - Attend Chamber of Commerce meetings, and participate in a student organization, traveling for competitions
  - Get a head-start by earning college credit recognized by multiple colleges and universities
  - Develop marketable skills for immediate employment, and earn industry recognized certifications. *Junior completers may return for a senior year of advanced studies with internship placement.*
- G1045 AVIATION ACADEMY
- Explore careers for the in-demand field of aviation
  - Prepare to pass private pilot knowledge test
  - Earn college credit
  - Learn from trained pilots
  - Visit airports, air traffic control towers, and air museums
  - Practice on a flight simulator
  - “Fast track” your aviation career

## FOUR YEAR PLAN

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>
<ol style="list-style-type: none"> <li>1. English 9</li> <li>2. Math ( _____ )</li> <li>3. Biology –OR- Biology in Agriculture</li> <li>4. World History/Geography</li> <li>5. ( _____ )</li> <li>6. ( _____ )</li> </ol>	<ol style="list-style-type: none"> <li>1. English 10</li> <li>2. Math ( _____ )</li> <li>3. Physical Science</li> <li>4. 20<sup>th</sup> Century America</li> <li>5. ( _____ )</li> <li>6. ( _____ )</li> </ol>
<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
<ol style="list-style-type: none"> <li>1. English 11</li> <li>2. Math ( _____ )</li> <li>3. Science ( _____ )</li> <li>4. Government/Economics</li> <li>5. ( _____ )</li> <li>6. ( _____ )</li> </ol>	<ol style="list-style-type: none"> <li>1. English 12 –OR- AP English Literature</li> <li>2. Math ( _____ )</li> <li>3. ( _____ )</li> <li>4. ( _____ )</li> <li>5. ( _____ )</li> <li>6. ( _____ )</li> </ol>

Note: All students must also take the following credits:

\_\_\_\_\_ ½ credit of health

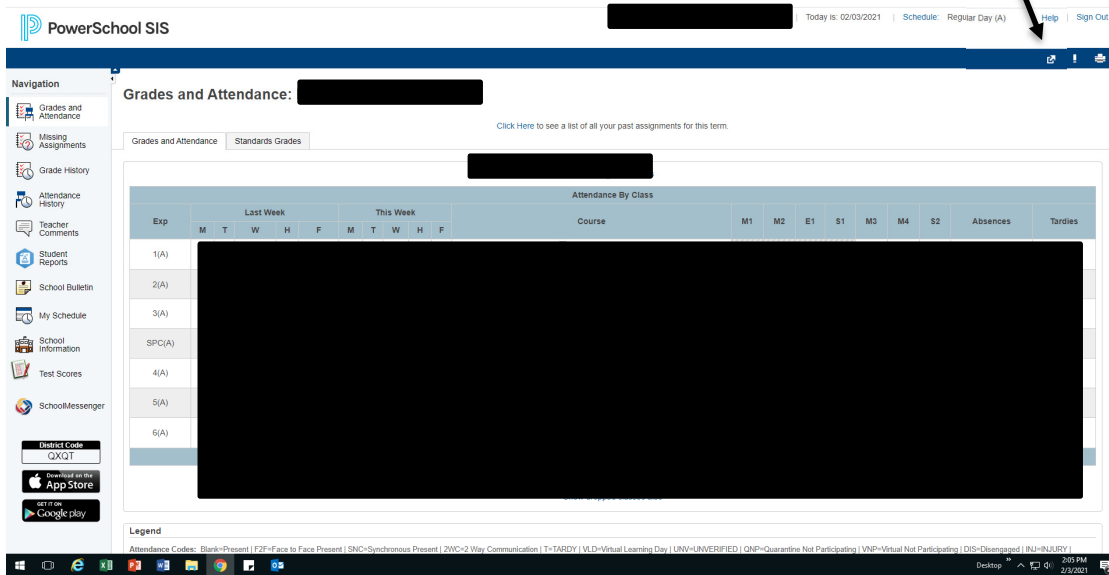
\_\_\_\_\_ ½ credit of physical education

\_\_\_\_\_ 2 credits of world language

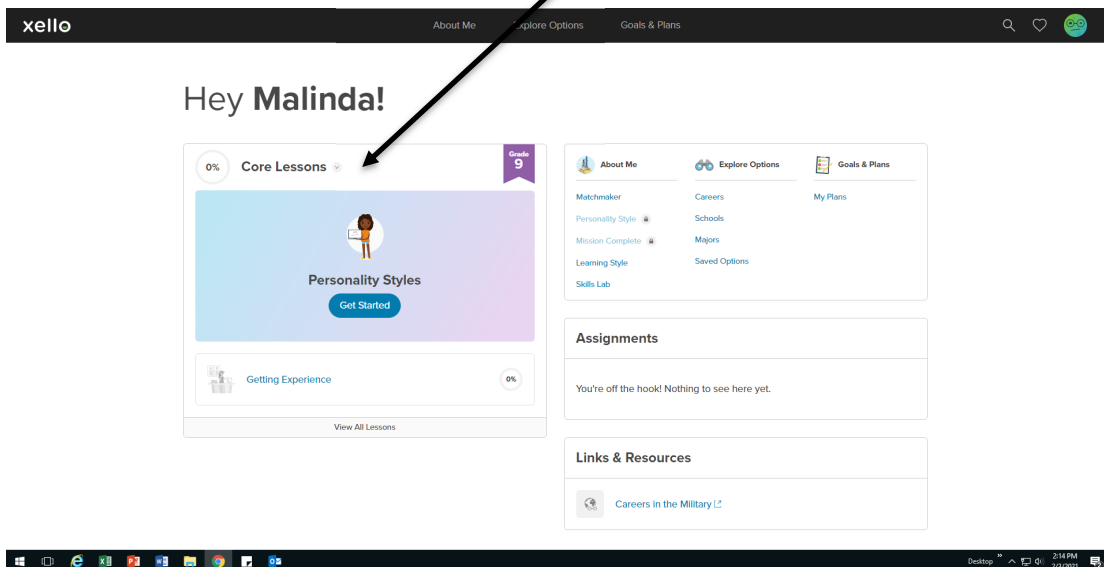
# INSTRUCTIONS FOR COMPLETING YOUR EDP & SCHEDULING YOUR CLASSES

## Completing your EDP

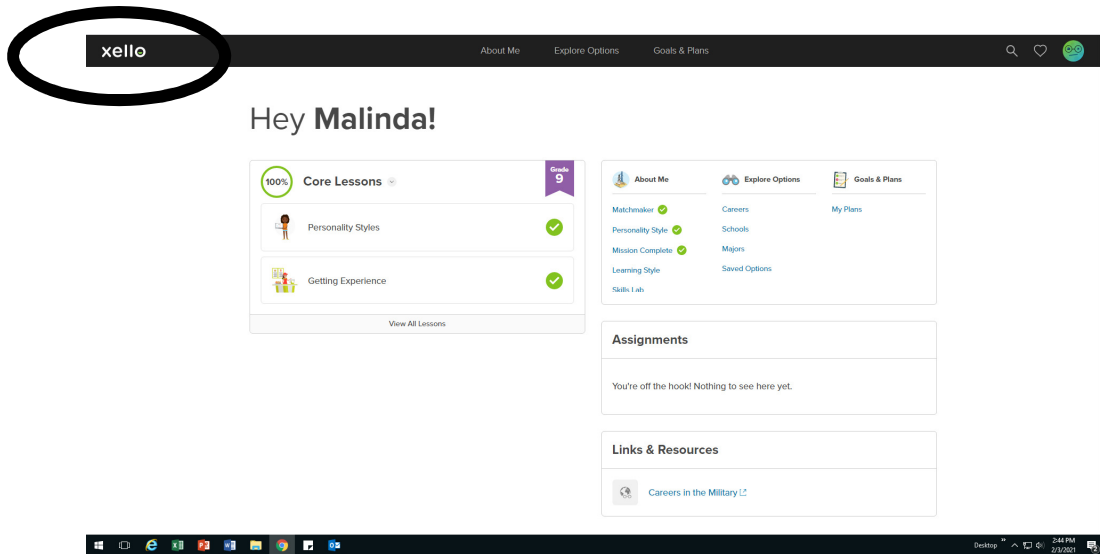
1. You will be completing scheduling within Xello. The good news is that you don't need a separate login! You will access it right from your PowerSchool screen. You're going to click on this little icon... It looks like an arrow coming out of a box. Then click on "Sign into Xello".



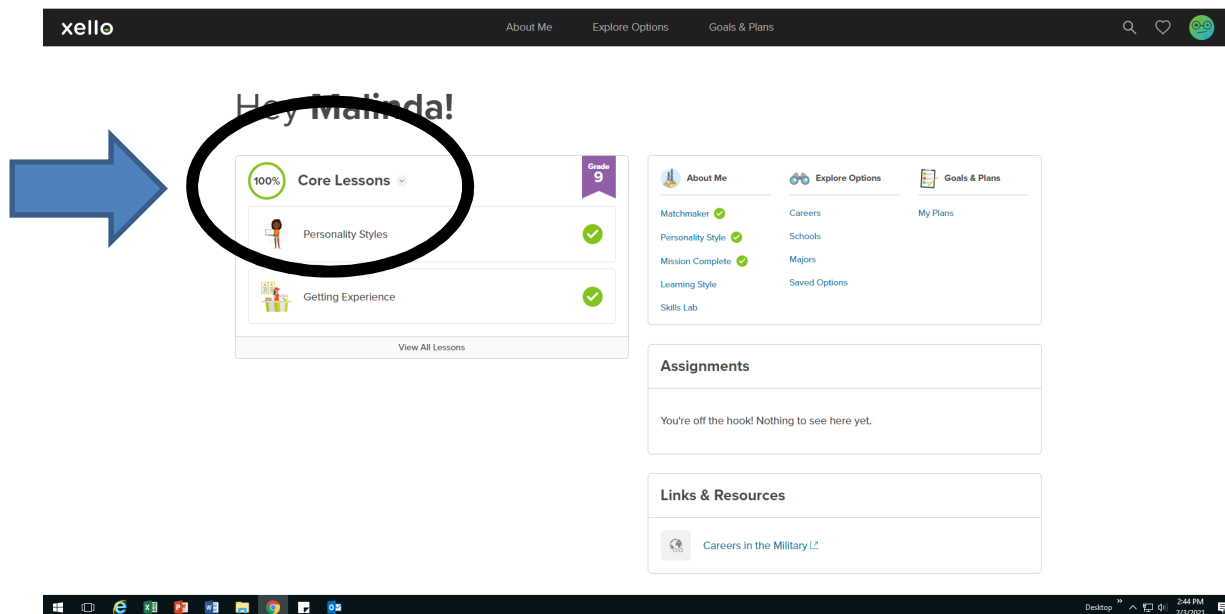
2. Once you login, you will need to do the Core Lessons. These are different for each grade. Take your time! Remember...this is to help you plan for YOUR future!



3. If you get lost, click on the Xello logo



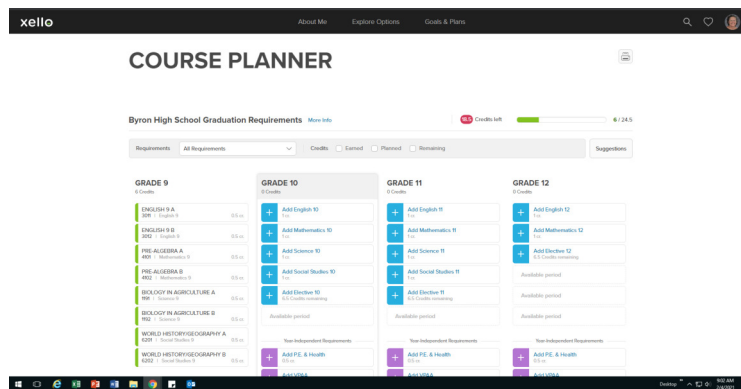
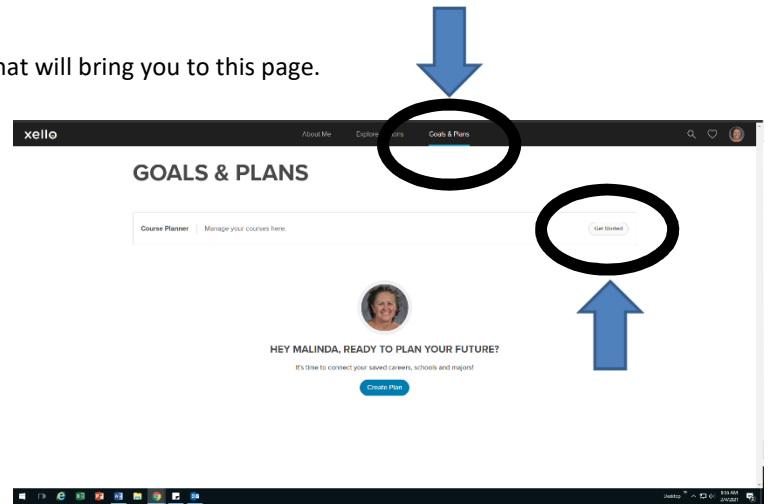
4. Work through the lessons until it shows 100% for your “Core Lessons”. Remember to take your time through the tasks. High school is just a step on your career journey. This program can help if you aren’t sure.



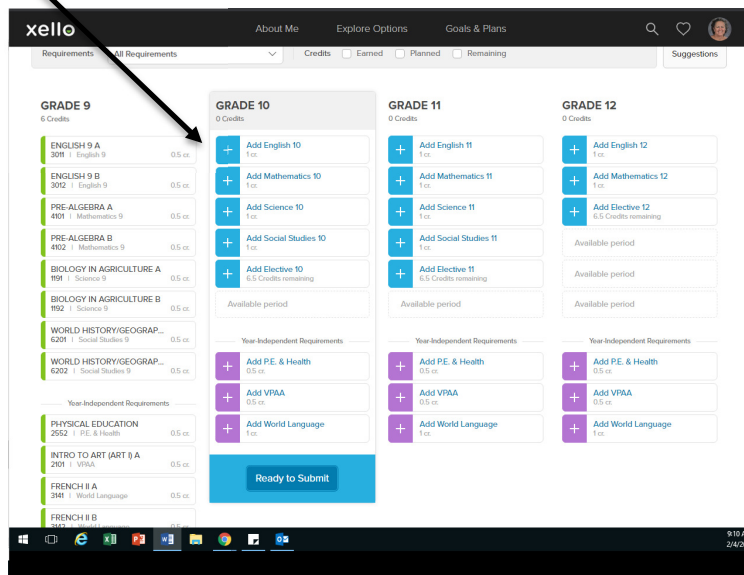
## Scheduling

1. Click on “Goals & Plans” at the top of the screen...that will bring you to this page.

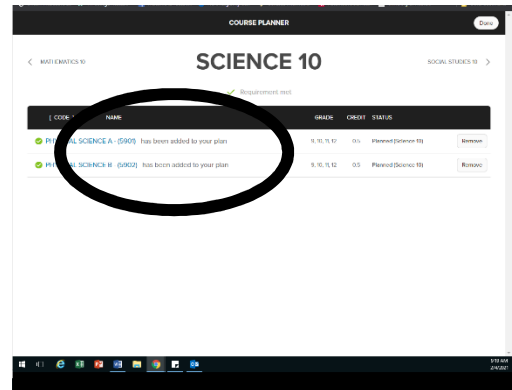
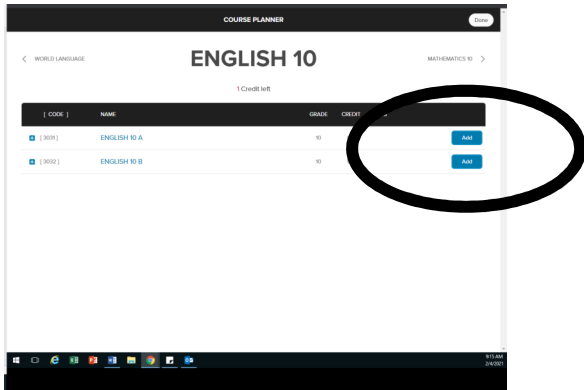
2. Click on “Get Started” on the screen. That will bring you to the below screen. This example is a current 9<sup>th</sup> grader who is selecting courses for 10<sup>th</sup> grade. If you are a current 9<sup>th</sup> – 11<sup>th</sup> grader, courses that have been completed, or are in progress, should automatically be populated. If there is an error, let Ms. Smith know. PowerSchool is the official “keeper” of your credits, Xello shows you your course history to help you select your courses for next year.



3. The year that you will be scheduling for should be highlighted in grey. To select a course, click on the plus symbol.

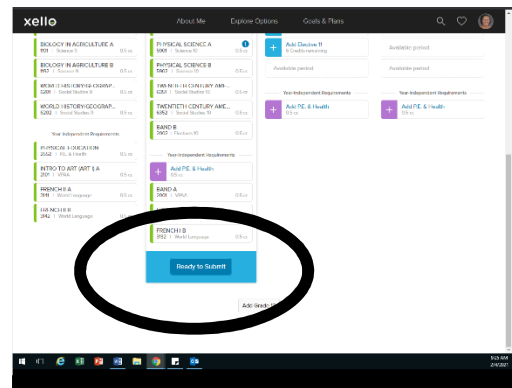
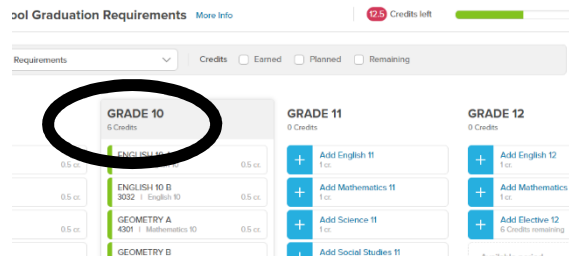


- When you click on the plus symbol, it will bring up your options for that discipline. Click “Add”. Make sure both semesters appear on your course list—it may automatically do that for you. You’ll know you’ve done it correctly because it will then say “xxxx ‘has been added to your plan’”. If you’d like to exit a screen, simply click “Done” at the top right. Course descriptions will show up when you click on a course.

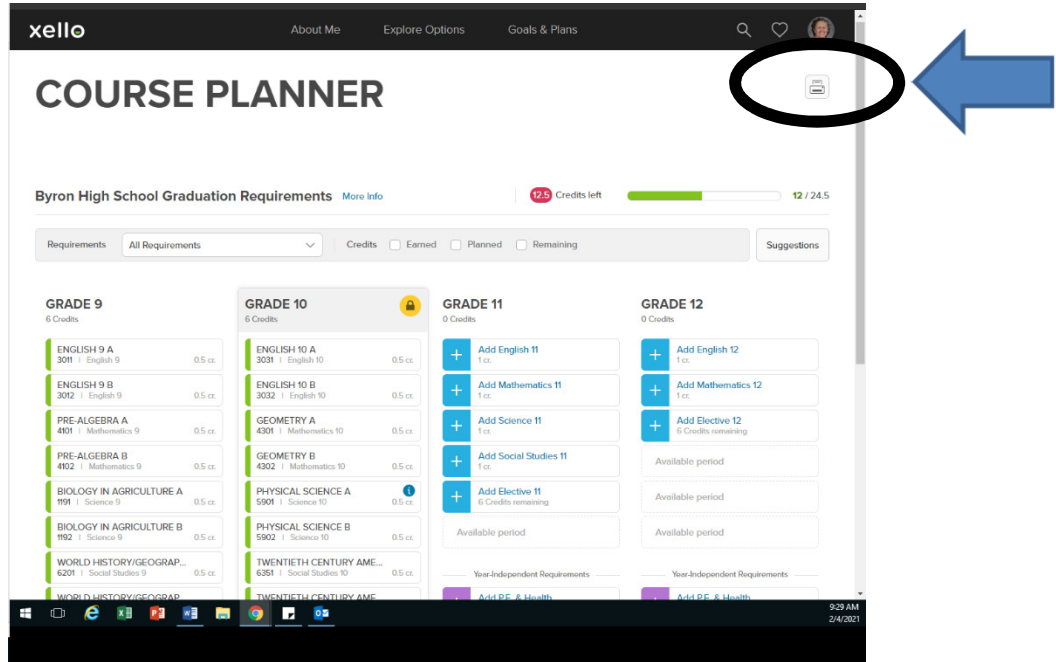


- Continue that process until you have all 6 credits chosen and are good with your choices. Then click “Ready to Submit” which will then lock in your selections. Please make sure you are sure of your selections before you hit submit! Once you do that, your courses will be locked. Ms. Smith will need to make any changes.

## COURSE PLANNER



IMPORTANT...now you need to print your Course Planner!



When you click the printer icon above, you will then get a “Course Request” sign off sheet that you need to print and then both you and a parent/guardian need to sign and return to Ms. Smith. And...you’re done!

