

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



2018/2019
Course Offerings

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

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: Patricia Murphy-Alderman, Byron Area Schools, 312 W. Maple, Byron, MI 48418.

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*****IMPORTANT*****

You only need to go to *Career Cruising* to complete your course requests for next year.

- You must complete your Educational Development Plan in *Career Cruising*, according to the guidelines for your grade and turn in a parent/guardian signed copy to Mrs. Smith. This is required by Michigan law.
- You will also be selecting your courses for next year in *Career Cruising*.

If you plan to enroll in any of the following classes, you must have the indicated teachers' permission. If you are interested in any of the following classes, you need to speak with the teacher. Teachers will be giving Mrs. Smith a list of students that are recommended for the below courses. Mrs. Smith is going to need to override the course so that you'll be able to lock your courses in to *Career Cruising*.

1. Advanced Art—Mrs. Anderson
2. Advanced Placement English Literature—Present English teacher
3. All Math Classes--Present math teacher
4. Anatomy & Physiology—Present science teacher
5. Chemistry--Present math -AND- science teacher
6. Physics--Present math -AND- science teacher
7. Machine Tool I & II—Mr. Chrisinske

**BYRON HIGH SCHOOL
GRADUATION REQUIREMENTS**

<i>Subject</i>	<i>Career-Focused Requirements</i>
Mathematics (Must include a math class taken during the senior year)	4
Science (Students must have one credit of Biology, one credit of Chemistry or Physics, and one additional science credit)	3
Social Studies (Students must have World History/Geography, 20 th 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
Computer Education	1
On-line Learning Experience	20 hours
Graduation Requirements	25.5
Total Credit Opportunities	28

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 (either General or Honors), * English 10 (either General or Honors), * English 11 (either General or Honors), * English 12 –or- Advanced Placement English Literature

Science

* Biology (Biology or Biology in Agriculture), * Chemistry (General or Honors) –or- Physics, Physical Science (a student that has had Chemistry or Physics may not take Physical Science), Anatomy & Physiology, Greenhouse Horticulture, Zoology & the Environment, Geosystems, Health Science Academy (Baker College), Intro to Health Occupations (Baker College), other courses at the GCI (see Mrs. Smith)

<p><u>9th Grade</u> Biology Biology in Agriculture</p> <p style="text-align: right;">} One of these is required</p>	<p><u>10th Grade</u> Chemistry Physical Science</p> <p style="text-align: right;">} One of these is required in 10th grade</p> <p>Zoology & the Environment</p>
<p><u>11th Grade</u> Chemistry—required if Physical Science was taken in 10th grade Physics—required if Chemistry was taken in 10th grade Anatomy & Physiology Geosystems Greenhouse Horticulture Zoology & the Environment Health Science Academy (Baker College) Intro to Health Occupations (Baker College)</p>	<p><u>12th Grade</u> Anatomy & Physiology Geosystems Physics Greenhouse Horticulture Health Science Academy (Baker College) Intro to Health Occupations (Baker College)</p>

Mathematics

* Algebra I, * Algebra II (General or Honors), * Geometry, 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 Wellness

Computer Education

Technology for Success, Desktop Publishing II, Accounting I, Accounting II, Intro to Industrial Technology, online/virtual learning, VEI I, Mechatronics I/II

Visual, Performing & Applied Arts

Senior Band, Vocal Music, Art I, Advanced Art, Landscape Horticulture, Machine Tool I & II, Applied Technology, Intro to Industrial Technology, VEI

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 2nd year of a world language and your 4th year math—it can only be one or the other)

Business Management = VEI I –AND- VEI II

Accounting = Accounting I –AND- Accounting II/VEI I (for students on the accounting track)

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—all students must complete one of the following courses in order to meet this graduation requirement

Technology for Success, Accounting I, Accounting II, Agri. Business Mechanics, Agri. Business Construction, VEI, online class

4th 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. *** You must see Mrs. Smith before the beginning of your senior year if you want one of these classes to count as your fourth year math-related class ***

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

Electives—other classes not listed above are electives

AGRI-SCIENCE

1191 BIOLOGY IN AGRICULTURE
1192

GRADE 9

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
1142

GRADE 10

Prerequisite—Biology in Agriculture

Zoology and the Environment is a course for 2nd 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
1122

GRADES 11 – 12

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 4th year of math-related credit. See Mrs. Smith to verify your credits if you choose this option*

1171 LANDSCAPE HORTICULTURE
1172

GRADES 11 – 12

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.**

BAKER COLLEGE PARTNERSHIP

* For all of the Baker College classes, students must have a 2.5 minimum GPA*

1441 AUTO SERVICES I—go to www.sresd.org to apply GRADES 11

This program is held at Baker College in Owosso from 7:30 - 9:15 am. Earn college credit in the Automotive Services Electrical/Electronic Systems Program. This course helps prepare students to perform successfully on the state technician's certification test for automotive electrical systems. The state certification is required for all persons who work in positions as specialty technicians or master technicians in the State of Michigan. Instructional topics include: computerized testing, principles of electricity, advanced diagnostic techniques used to analyze system problems; charging, ignition and diagnosis of basic electronic faults; basic electrical system components such as wiring, batteries, starters, and alternators; analysis of automobile electrical/electronic systems, including using an Ohmmeter to check continuity and measure resistance in electrical/electronic circuits and components.

1443 AUTO SERVICES II—go to www.sresd.org to apply GRADE 12

Prerequisite—Successful completion of Auto I or pass an automotive waiver test.

This program is held at Baker College in Owosso from 7:30 - 9:15 am. Earn college credit in the Automotive Services Suspension, Steering, and Brake Program, which will prepare students to perform successfully on the state certification test for automotive brake service and automotive suspension and steering. The state certification is required for all persons who work in positions as specialty technicians or master technicians in the State of Michigan. Instructional topics include: ABS brake systems, alignment techniques, types of wheels and tires, diagnosing system problems, design and operation of drum and disc brakes, suspension and drive systems for front and rear drive vehicles, and steering mechanisms and suspension components.

1471 HEALTH SCIENCE ACADEMY—go to www.sresd.org to apply GRADES 11 – 12

Students will need to provide a high school transcript, an essay, and three teacher recommendations (recommendation forms are found on the SRES D's website).

This program is held at Baker College in Owosso from 7:30 - 9:15 am. Earn college credit in the Health Science Academy Program, which will provide students with exposure to a variety of health care occupations. The curriculum and core tasks are based on National Health Care Skill Standards. Between classroom instruction and clinical rotations, students will learn hospital procedures, medical terminology and abbreviations, legal and ethical aspects of medical practice, CPR and have the opportunity to job shadow with hospital staff. Seven one-week clinical rotations along with instruction will give students the basic skills necessary to obtain entry level employment in general health care positions. Instructional topics include: vital signs; health care systems; hospital procedures; communication skills; employability skills; release of medical information and confidentiality; medical terminology related to body systems; legal, ethical, and bioethical aspects of medical practice; medical abbreviations utilized in healthcare fields; emergency procedures such as CPR and First Aid; CPR certification.

1497 COMPUTER NETWORKING— go to www.sresd.org to apply GRADES 11 – 12

Computer networking technology is one of the fastest growing markets for employment of individuals skilled in computer connectivity both through local and internet sites, PC and server maintenance, system

troubleshooting, and network security which are the foundations of this field. Students learn about computer hardware components and the networking software used to connect them, as well as gain hands-on experience installing and configuring networks. This program will help prepare individuals to sit for qualifying examinations that may lead to certification as a Microsoft Certified Solutions Associate (MCSA). Courses within this program also help prepare students for CompTIA A+ and Network+ certifications. Instructional topics include: computer hardware and operating systems concepts, configuration and upgrading of PCs and workstations, evolution of the Windows family of operating systems, safety and preventative maintenance, diagnosing and troubleshooting, printers and portable systems, system files and management, and basic networking.

1551 COMPUTER SCIENCE— go to www.sresd.org to apply GRADES 11 – 12

This program is designed to immerse students in the core knowledge of computer science and software engineering. This program will focus on programming technologies and will prepare students for advanced education in computer science, software engineering, game design and mobile application development. Instructional topics include: computer science technology, software engineering, application development, programming logic, flow charting, C++ Programming, software development tools, and object oriented programming.

1455 CRIMINAL JUSTICE I— go to www.sresd.org to apply GRADES 11 – 12

Earn college credit in this program, which provides 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 certificate, associate and baccalaureate degree programs such as: 911 telecommunications, corrections officer, criminal justice, and public safety. Students will study the history of policing, patrol techniques, the courts system, the corrections system, defensive tactics, client relations and much more.

1457 CRIMINAL JUSTICE II— go to www.sresd.org to apply GRADE 12

Prerequisite--Successful completion of Criminal Justice I

Earn additional college credit in the second year of the Criminal Justice program. Students will study the history of corrections, policing and patrol techniques, the courts system, the corrections system, defensive tactics, client relations and much more. Students will have the opportunity to complete their CPR Certification during year 2. Additionally, students will be exposed to the Michigan Commission of Law Enforcement Standards which guide curriculum and learning experiences at the law enforcement academies in Michigan. Instructional topics include: criminal law, investigation and arrest, police patrol and response, adjudication, courts structure and participants, professionalism and ethics, crime and corrections, punishments and prison life, diversion and probation, crime and criminology, explanations for criminal behavior, and juvenile justice.

BUSINESS/COMPUTER EDUCATION

Articulation credit is available for some Business/Computer Education classes. This means that successful completion of some of these classes may earn you free college credit due to an agreement between Byron High School and area colleges. See Mrs. Navarre for more information.

1051 TECHNOLOGY FOR SUCCESS GRADES 9 – 12
1052

This class will prepare students with the necessary skills to succeed in professional working environments. This introductory business management & technology course will focus on practical applications of MS

Word, Excel, PowerPoint, Access in order to create powerful presentations, business documents and document business management concepts that students will utilize during the remainder of their career. A portion of 21 Things 4 Students, career & employability skills and portfolio development will also be emphasized.

- **Meets the 20-hour Online Experience Requirement**
- **Meets the Computer Education Requirement**

1041 BUSINESS ENTREPRENEURSHIP 1 (VEI) GRADES 11 - 12
1042

Pre-requisite—Technology for Success –OR- instructor approval (sophomores may take with instructor approval)

Entrepreneurship (VEI) is a simulated (virtual) company run by the students and facilitated by the instructor. Students will be involved in virtual work experiences and e-commerce by applying and working in departments including Accounting, Human Resources, Marketing & Sales, IT Web & Design, Administration and Management. In the simulated business environment, students interview for positions within specific departments dependent upon skills, prior knowledge, and interest. All departments work together to run the virtual business chosen by the students. As a firm, students compete with other virtual firms in the areas of business plan competition, impact marketing, web design, trade booth design, business card design, brochure design, catalog design, and interview skills. Students will have the opportunity to attend national trade shows. Note: Success in this class requires a strong work ethic including organizational skills, ability to meet deadlines, and a willingness to spend time outside of class to complete projects. This course satisfies the VPAA graduation requirement.

- **Students will have the opportunity to earn Microsoft Office Certification**
- **College Credit Available**
- **For students that have not had Accounting**

1047 BUSINESS ENTREPRENEURSHIP 2 (VEI) GRADES 11 - 12
1048

Pre-requisite—Business Entrepreneurship 1

Same course description as Business Entrepreneurship 1.

1043 FINANCE ENTREPRENEURSHIP 1 (VEI) GRADES 11 – 12
1044

Pre-requisite—Accounting I

Same description as Business Entrepreneurship except that this course is for students that have had Accounting.

1045 FINANCE ENTREPRENEURSHIP 2 (VEI) GRADES 11 – 12
1046

Pre-requisite—Accounting I and Finance Entrepreneurship 1

Same description as Business Entrepreneurship except that this course is for students that have had Accounting.

1081 ACCOUNTING I GRADES 10 - 12
1082

This course is designed to provide students with the skills used in the accounting department of small businesses. Students will learn the careers associated with the accounting profession and the

opportunities offered. This course will introduce students to a complete accounting cycle for a proprietorship, which will include journalizing transactions, journalizing, posting, petty cash, financial statements, adjusting and closing entries, automated accounting and an accounting simulation based on a real-life proprietorship business.

- **Satisfies 20-hour online requirement**
- **College credit may be available through articulation**
- **Possible 4th year math-related credit if taken during the senior year (See Mrs. Smith)**

1361 PERSONAL FINANCE
1362

GRADES 11 – 12

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 4th year math-related credit if taken during the senior year (See Mrs. Smith).**

COLLEGE OPTIONS

Early College—5th 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 Mrs. Smith. There is required paperwork that must be completed by Mrs. Smith as well before summer vacation.
- Baker College—applications due April 1
 - GPA ≥ 2.5
- Lansing Community College—applications due April 1
 - GPA ≥ 2.5 –AND- placement tests
- Mott Community College—applications due April 1
 - GPA ≥ 2.0 –AND- placement tests
- University of Michigan—Flint (DEEP)—applications due February 26
 - 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—MUS 100 & 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 Mrs. Smith for the application. Students must provide their own transportation to the GCI

G1001 CONSTRUCTION TRADES

- Operate power tools and equipment while building a single family home for Habitat for Humanity

- Work safely and efficiently alongside licensed builders, read blue prints, estimate materials and costs
- Attend field trips related to carpentry, and travel to regional, state, and national Skills USA competitions
- Qualify for a paid apprenticeship through the Department of Labor; get a head-start by earning college credit
- Develop marketable skills for immediate employment with contractors, and earn industry recognized certifications
- JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES WITH INTERNSHIP PLACEMENT

G1002 ELECTRICAL WIRING

- Use professional tools and technology to install electrical wire, switches, and fixtures found in homes and businesses
- Read electrical plans, bend steel conduit, use national codes to plan layouts of power outlets, lights, and controls
- Attend field trips related to electricians, and travel to regional, state, and national Skills USA competitions
- Qualify for a paid apprenticeship through the Department of Labor; get a head-start by earning college credit
- Develop skills for immediate employment with contractors and energy companies, and earn industry certifications
- JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES WITH INTERNSHIP PLACEMENT

G1003 DIGITAL MEDIA ARTS

- Operate high-tech video and audio equipment in a modern production studio
- Work alongside a professional news director to edit raw footage using industry software and top quality computers
- Create story boards, scripts, and production schedules for team projects and public service announcements
- Visit a TV news studio and related college programs; travel to compete in state and national student organizations
- Get a head-start by earning college credit; develop marketable skills for immediate employment
- JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES IN SOUND AND FILM PRODUCTION

G1005 VISUAL DIGITAL COMMUNICATIONS

- Hone your artistic talents in drawing, photography, graphic design, and animation
- Design, express, and interpret ideas to solve client-driven problems in a graphics production center
- Visit businesses and related college programs; participate in student organizations and travel to competitions
- Get a head-start by earning college credit through Kendall College of Art, CMU, SVSU, and MCC
- Develop marketable skills for immediate employment
- JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED VDC STUDIES

G1031 DIGITAL ANIMATION AND CHARACTER DESIGN

GRADE 12 only

- Develop 3D characters and scenes using modeling, lighting, camera work, and frame animation

- Incorporate visual effects, rendering, match moving, sequencing, and composing using industry software
- Get a head-start by earning college credit; develop marketable skills for immediate employment

G1032 VDC LINKLAB

GRADE 12 only

- Apply your creative design, illustration, and photography skills to develop real world projects for clients
- Do screen printing projects, large digital printing, vinyl banner production, and dye sublimation
- Build a substantial print portfolio including logo design, point of purchase displays, packaging, and signage
- Get a head-start by earning college credit; develop marketable skills for immediate employment

G1033 EARLY CHILDHOOD EDUCATION

- Provide engaging learning opportunities to children ages 3-5 while assisting early childhood school teachers
- Focus on planning educational activities, leadership, and child development through online and face-to-face learning
- Get a head-start by earning multiple college credits through Mott Community College
- Develop marketable skills for immediate employment, and earn CPR and First Aid certifications
- JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES

G1030 JUNIOR RESERVE OFFICER TRAINING CORPS (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 other military schools and qualify for scholarships to multiple college ROTC programs
- Develop marketable skills for immediate employment, and earn industry recognized certifications
- JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES – ENLISTMENT IS NOT REQUIRED

G1008 RISK MANAGEMENT

- 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

G1040 BUILDING WEALTH

- 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

G1029 ADVANCED COMPUTER AIDED DESIGN (CAD)

Prerequisite: Mechatronics I

- Students enrolled in this program will study advanced topics in design
- Assignments and projects will be individually developed with input from both student and instructor
- Job shadow opportunities (requires license and transportation)
- Opportunities for certification examination
- STUDENTS NEED TO HAVE TAKEN A CAD CLASS AT THEIR SENDING SCHOOL AND GET A LETTER OF RECOMMENDATION FROM THEIR CAD INSTRUCTOR WHEN APPLYING FOR ADVANCED CAD AT GCI

G1021 DISCOVER E—ENGINEERING

Co-requisite: Mechatronics (speak with Mr. Chrisinske)

- Systematically approach problem solving, exploring multiple fields of engineering, technology, and Computer Aided Design (CAD)
- Create team and individual projects, program a robot, and work with other high-tech tools used in engineering
- Visit engineering departments, 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 certifications in First Aid, CPR, and OSHA
- JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES WITH INTERNSHIP PLACEMENT

G1034 CERTIFIED NURSING ASSISTANT (CNA)

GRADE 12 only

- Work alongside professionals in clinical settings at long term healthcare facilities in Genesee County
- Provide personal care to patients, including taking vitals, transferring locations, and assisting with daily living needs
- Upon successful completion, be eligible to take the State of Michigan Certified Nurse Assistant certification exam
- Get a head-start by earning up to five college credits at Mott Community College
- Enhance marketable skills that employers desire, and earn/ update healthcare industry certifications

G1035 EMERGENCY MEDICAL CONCEPTS (EMC)

- Work alongside professionals providing medical assistance in simulated emergency situations

- Practice Basic Life Support and CPR; Increase comprehension of medical terminology and anatomy
- Treat traumas using techniques for back-boarding, splinting, and immediate wound care
- Get a head-start by earning college credit, participate in student organizations and travel to competitions
- Develop skills for immediate employment, and earn healthcare certifications
- JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF EMERGENCY MEDICAL TECHNICIAN (EMT)

G1037 MEDICAL CAREER FOUNDATIONS (MCF)

- Work alongside healthcare professionals at local hospitals for many weeks gaining clinical experience
- Practice taking vital signs; Increase comprehension of medical terminology, anatomy, emergency procedures
- Visit college programs; participate in a student organization at regional, state, and national competitions
- Contribute to team building and community service activities; Get a head-start by earning college credit
- Develop marketable skills for immediate employment, and earn several health industry required certifications
- JUNIOR COMPLETERS MAY RETURN FOR HER/HIS SENIOR YEAR FOR ALLIED HEALTH, CNA, EMT, OR NURSING

G1011 ALLIED HEALTH PROFESSIONALS – ADVANCED STUDIES

GRADE 12 only

- For senior students that have successfully completed EMC, MA1, MCF, or Sports Medicine as a junior
- Choose to study Online Dental Assisting or Online Pharmacy Technician
- Work daily alongside professionals in one of the above areas, gaining months of clinical experience
- Get a head-start by earning college credit recognized at multiple colleges and universities
- Prepare for industry certification exams, develop marketable skills for immediate employment or internships

G1041 NURSING – ADVANCED STUDIES

GRADE 12 only

- Work alongside professionals in clinical settings at long term healthcare facilities in Genesee County
- Prepare for college nursing programs by advanced studies of pharmacology, nutrition, CPR, anatomy, and physiology
- Upon successful completion, be eligible to take the State of Michigan Certified Nurse Assistant certification exam
- Get a head-start by earning up to seven college credits at Mott Community College
- Enhance marketable skills desired by employers, and earn/ update industry recognized certifications

G1012 EMERGENCY MEDICAL TECHNICIAN (EMT)

GRADE 12 only

- Ride along with an ambulance, observe in an emergency room, and attend clinical situations
- Assess patients, manage airways, use a defibrillator, learn legal and ethical issues, and size up an emergency scene
- Upon successful completion of the course, be eligible to take the National EMT certification exam

- Get a head-start by earning college credit recognized at multiple colleges, participate in a student organization
- Enhance marketable skills desired by employers, and earn/ update industry recognized certifications

G1013 SPORTS MEDICINE

- Evaluate athletic injuries, immediate medical attention, perform physical therapy exercises with patients
- Increase comprehension of human anatomy, focusing on joints, muscles, injuries, and rehabilitation
- Visit related college programs, and participate in a student organization, traveling to state and national 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

G1025 FORENSIC SCIENCE

- Solve crimes using the scientific problem solving method, industry technology, and safe operating procedures
- Investigate and process crime scenes, analyze physical evidence, and perform chemical laboratory experiments
- Visit related college programs, and participate in community service and a student organization with competitions
- Get a head-start by earning college credit recognized by multiple colleges and universities
- Develop marketable skills for immediate employment, and earn industry related certifications
- JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES WITH INTERNSHIP PLACEMENT

G1036 FORENSIC SCIENCE—ADVANCED STUDIES

GRADE 12 only

- Examine car accident reconstruction, arson investigation, and bioterrorism defense
- Expand studies to incorporate biomedical and scientific research, chemistry, toxicology, and advanced pathology
- Perform DNA analysis and environmental forensics by focusing on advanced laboratory and technology skills
- Get a head-start by earning college credit, travel to regional, state, and national student competitions
- Enhance marketable skills for immediate employment or internships, and earn/update industry certifications

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 and earn industry recognized certifications

- JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF ADVANCED STUDIES WITH INTERNSHIP PLACEMENT

G1015 CULINARY ESSENTIALS I

- Work alongside real chefs, research recipes, and gather ingredients for preparing unique dishes
- Cook and serve food safely to customers in the onsite restaurant and attendees at the GCI conference center
- Visit a farmers market and related college programs; participate in a student organization and travel to competitions
- Get a head-start by earning college credit recognized at multiple colleges and culinary schools
- Develop marketable skills for immediate employment, and earn industry recognized certifications
- JUNIOR COMPLETERS MAY RETURN FOR A SENIOR YEAR OF CULINARY ESSENTIALS II

G1016 CULINARY ESSENTIALS II

GRADE 12 only

- Expand your baking, cutlery, and food preparation skills by working in the kitchen daily with professional chefs
- Compete in hot and cold food contests using commercial kitchen equipment and technology
- Visit restaurant suppliers, plan and prepare meals for hundreds of people, compete in a student organization
- Get a head-start by earning college credit recognized at multiple colleges and culinary schools
- Enhance marketable skills desired by employers, and earn/ update industry recognized certifications

G1026 COSMETOLOGY I

- 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

G1027 COSMETOLOGY II

- Provide multiple services for public customers in a newly renovated salon on the campus of GCI
- Communicate effectively with customers and perform tasks relative to running your own salon business
- Accumulate the required instructional hours to qualify for the Michigan State License of Cosmetology
- Get a head-start by earning a cosmetology license that allows you to work in any salon in Michigan
- Enhance marketable skills desired by employers, and earn/ update industry recognized certifications

G1017 INTRO TO 3-D 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

G1018 APP DEVELOPMENT AND WEB DESIGN PROGRAMMING AND ANIMATION

- Create apps and websites with animations, graphics, and forms using JAVA, HTML, and other languages
- Master software like Adobe Dreamweaver, Photoshop, and others, while working toward Webmaster certification
- 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

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 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

G1039 CYBER SECURITY NETWORKING – ADVANCED STUDIES

GRADE 12 only

- Detect criminal activity on computers and mobile devices and identify perpetrators through cyber forensics
- Implement countermeasures and methods of deception; explore cryptography and source code auditing
- Visit a cyber security college program, 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

G1019 WELDING

- Melt metal at high temperatures using four welding processes to cut or fuse parts to create usable products
- Read prints and create plans for your own customized project, applying various welding methods and skills

- Visit manufacturers that weld, and participation in a student organization, traveling for competitions
- Get a head-start by earning college credit recognized by colleges and universities, prepare for an apprenticeship
- 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

G1020 COMPUTERIZED NUMERICAL CONTROL (CNC) MACHINING

- Operate power mills, lathes, and other machining equipment to precisely cut and shape metal parts at Baker College
- Create metal components of assemblies using machining processes commonly found in this high demand industry
- Visit manufacturers that have CNC machines, and participate in a student organization, traveling for competitions
- Get a head-start by earning several direct credits from Baker College that are also transferable to other colleges
- Develop marketable skills for immediate employment, and make progress toward industry recognized certifications

G1024 MEDIUM/HEAVY DUTY TECHNICIAN (DIESEL MECHANICS)

- Repair diesel engines and other systems on large vehicles, such as air brakes, hydraulics, suspension, and electrical
- Operate and perform maintenance on construction equipment, such as a dozer, backhoe, and forklift
- Visit related college programs, and participate in a student organization, traveling for competitions
- Get a head-start by earning college credit recognized by multiple trade schools, colleges, and universities
- Develop marketable skills for immediate employment, and earn industry recognized certifications

INDUSTRIAL TECHNOLOGY

1230 MECHATRONICS I: INTRO TO ENGINEERING DESIGN
1231

GRADES 9 – 12

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.

1236 1237	MECHATRONICS II: COMPUTER INTEGRATED MANUFACTURING	GRADES 11 – 12
	Prerequisite: Mechatronics II: Principles of Engineering	
	<p>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.</p>	
1238 1239	MECHATRONICS III: PRINCIPLES OF ENGINEERING	GRADES 10 – 12
	Prerequisite: Mechatronics I: Introduction to Engineering Design or instructor approval.	
	<p>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.</p> <p>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.</p>	
1281 1282	APPLIED TECHNOLOGY	GRADES 9 - 12
	<p>Applied Technology has changed this year. 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, tablesaw operation, bandsaw operation, finishing techniques and project planning. This course satisfies the VPAA requirements.</p>	
1283 1284	MACHINE TOOL I	GRADES 10 - 12
	Prerequisite—Applied Technology –OR- Instructor Approval	
	<p>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</p>	

during the senior year, this course can count as the 4th year of math-related credit. See Mrs. 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 can count as the 4th year of math-related credit. See Mrs. 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 attempt to 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

4201 4202	ALGEBRA I	GRADE 9
	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 4302	GEOMETRY	GRADE 9 - 10
	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 4502	ALGEBRA II	GRADES 10 - 12
	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.	
4551 4552	HONORS ALGEBRA II	GRADES 10 – 11
	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, rational, and radical functions. We will also study sequences and series. An emphasis will be placed upon function families, mathematical modeling, and problem solving. Although we will be studying the same general topics as in Algebra II, students will be required to display a deeper level of understanding through discourse, projects, application problems, and assessment. *Honors Algebra II is a prerequisite for Pre-Calculus*	
4651 4652	ADVANCED ALGEBRA	GRADES 11 – 12
	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—Honors 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***

4751 ADVANCED PLACEMENT CALCULUS

GRADE 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

3081 YEARBOOK

GRADES 11 – 12

3082

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 taken twice 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 9 - 10 (1 semester)

This semester course is taken opposite Health and Wellness 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 WELLNESS 9 - 10 (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.**

2591 FITNESS FOR LIFE

GRADES 10 – 12

2592

Prerequisite—PE I

After taking this class, students will have an understanding of proper body conditioning, nutritional habits and cardiovascular training methods. Students will be expected to take part in plyometrics, aerobic activity such as running, weight training, body weight management, stretching, and nutrition. This course will be intense and action-oriented. **May NOT be taken at the same time as PE I or Adv PE.**

SCIENCE

5151 BIOLOGY

GRADE 9

5152

This course is designed to meet the new Michigan High School Content Standards and to prepare all students for the ACT/MME 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 10 - 12

5902

Prerequisite—Biology or Biology in Agriculture

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

GRADE 10 - 12

5402

Prerequisite—Biology or Biology in Agriculture

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. ***It is strongly recommended that students have completed Algebra I before taking this course.***

5501 PHYSICS GRADE 11 - 12
5502
Prerequisite—Biology or Biology in Agriculture; 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.

5301 ANATOMY & PHYSIOLOGY GRADE 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 GRADE 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
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 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
6502
This class is required of all 11th graders.
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. Included will be a unit on how to package, market and sell yourself. Students will complete a job application, resume, interview, and create a portfolio which compliments your attributes.

6610 INTRODUCTION TO SOCIOLOGY/PSYCHOLOGY GRADES 11 - 12

6710

Have you ever wondered why men have developed so many different ways of life? In Sociology, the students examine the structure and function of groups and how these groups interact, influencing each other's behavior. Since men live out most of their lives performing activities as members of various groups, the course covers many aspects of an individual as he relates to his culture and society. In Psychology, the students attempt to find out what sort of things we human beings are, how we came to be this way, what problems we are likely to develop, and what we may do about them.

VIRTUAL LEARNING

Any student wishing to take an online, or virtual, class must see Mrs. Smith for an application. Filling out an application DOES NOT guarantee admission into the program. Students may NOT take more than 2 virtual courses. 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 in the same subject; and 5) the online course is of insufficient quality or rigor. Courses that may be eligible can be found on www.gennet.us or micourses.org.

VISUAL ARTS

2101 INTRO TO ART (ART I)

GRADES 9 - 12

2102

Over the course of a year, most of the basic areas of art will be covered: drawing, painting, ceramics, and pen and ink. There will also be a mixture of collage, scratchboard, linoleum, and commercial art added in for seasoning. Where one student might excel at drawing, another might excel in painting. All projects will be studied in depth. Sketchbooks are required homework.

2110 INTERMEDIATE ART (ART II)

GRADES 10 – 12

2111

Prerequisite—Intro to Art (Art I)

This course will be an extension of Art I and will build on the elements and principles of Art and Design, methods, techniques and art history. Students will be able to expand their knowledge of familiar materials as well as give different ones a try. Students will take part in class critiques and write reflections while increasing their art terminology and developing language to discuss art intelligently.

2121 ADVANCED ART

GRADES 10 - 12

2122

Prerequisite—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.

WORK EXPERIENCE/VOCATIONAL PROGRAMS

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

1451 WORK EXPERIENCE PROGRAM—see Mrs. Smith GRADES 11 - 12

This program is for students who wish to get on-the-job experience while in high school. Your job must be in your career pathway as stated in your EDP 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

3101 SPANISH I GRADES 8 – 12
3102

This course is an introduction to the Spanish language and culture. Basic grammar, vocabulary and structure of the Spanish language are taught with regular oral and written practice. Listening, speaking, reading and writing skills are developed gradually, with an emphasis on communication through demonstrations and dialogues. Students may be required to participate in the annual dinner theatre.

3111 SPANISH II GRADES 9 – 12
3112

In Spanish II, students will continue to expand their vocabulary and ability to talk about technology, media, entertainment, and travel; themselves and what they do; the school and free time; events and shopping; transportation and community; memories and celebrations; the home; medicine and the body. Grammatically, students will continue to expand on their understanding of the present tense, especially irregular verbs, the preterit, imperfect, and present progressives, as well as prepositions and pronouns.

3121 SPANISH III GRADES 10 – 12
3122

Prerequisite- An 80% or better in Spanish II

Spanish III is a natural continuation of Spanish I and II. In Spanish III students will continue to expand their vocabulary and ability to talk about emergencies, disasters, crisis situations, the body, accidents, medicine, television, sports, cooking, food, appliances, hotels, travel, behavior, careers, money, and the environment. Grammatically, students will continue to expand on their understanding of irregular verbs, the preterit, imperfect, the imperfect progressive, reflexives, the present perfect, commands, *por*, the subjunctive mode and the future tense. Students will continue to grow in their ability to speak, read, write, and listen to Spanish language.

3131 FRENCH I GRADES 8 - 12
3132

This class will explore the beginning and most basic structure of the language. Students will learn beginning structure of conversation, vocabulary and sentence structure. We will be learning basic verbs and verb tenses: present tense and near future tense. Culturally, we will be studying French schools, everyday routines, food and travel. Students may be required to participate in the annual French dinner theatre.

3141 FRENCH II
3142

GRADES 9 - 12

This class will focus on expanding vocabulary learned in French I. Students will be learning different tenses of verbs such as Passé Composé and the Impératif. Culturally, students will be studying transportation, sports, weather, clothing, health, leisure activities and government agencies. Students may be required to participate in the annual French dinner theatre.

FOUR YEAR PLAN

9th Grade	10th Grade
<ol style="list-style-type: none"> 1. English 9 2. Math (_____) 3. Biology –OR- Biology in Agriculture 4. World History/Geography 5. (_____) 6. (_____) 7. (_____) 	<ol style="list-style-type: none"> 1. English 10 2. Math (_____) 3. Physical Science 4. 20th Century America 5. (_____) 6. (_____) 7. (_____)
11th Grade	12th Grade
<ol style="list-style-type: none"> 1. English 11 2. Math (_____) 3. Chemistry –OR- Physics 4. Government/Economics 5. (_____) 6. (_____) 7. (_____) 	<ol style="list-style-type: none"> 1. English 12 –OR- AP English Literature 2. Math (_____) 3. (_____) 4. (_____) 5. (_____) 6. (_____) 7. (_____)

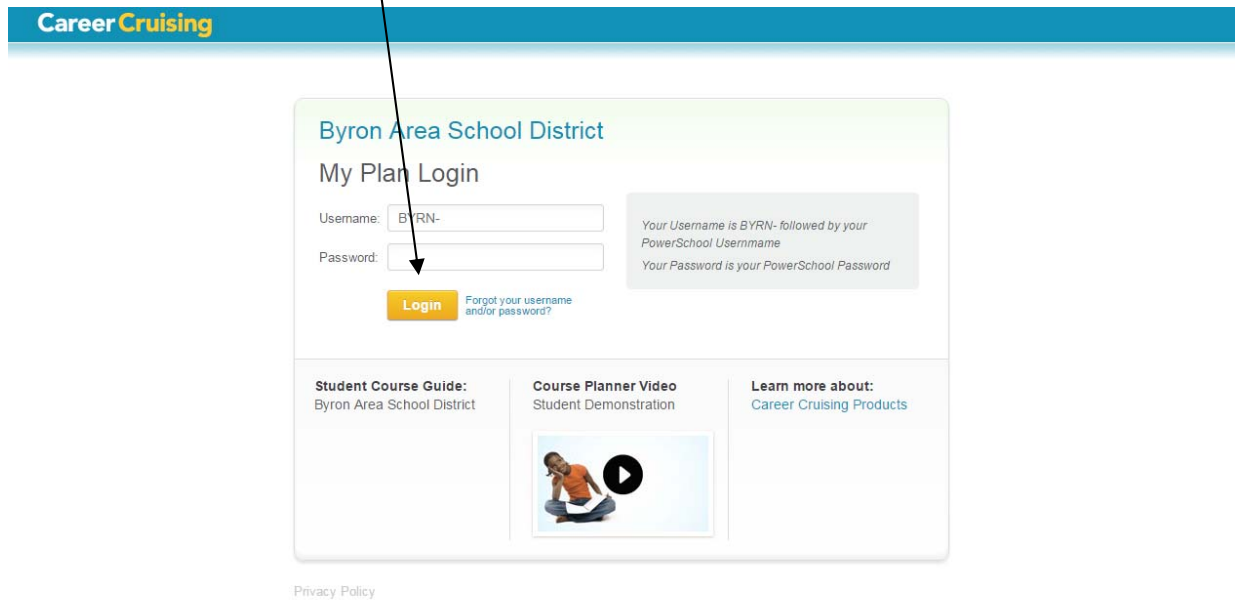
Note: All students must also take the following credits:

- _____ 1 credit of computers
- _____ ½ credit of health
- _____ ½ credit of physical education
- _____ 2 credits of world language

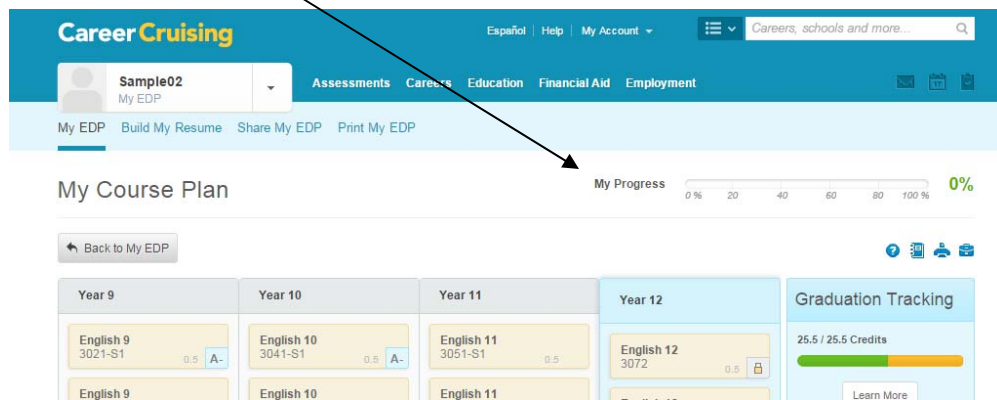
INSTRUCTIONS FOR COMPLETING YOUR EDP & SCHEDULING YOUR CLASSES

Completing your EDP

1. Go to: <https://www2.careercruising.com/default/cplogin/BYRN#>
Enter username=BYRN-your PowerSchool username; Enter password=your computer password
Click on "log in"



2. Once you login, please check your progress bar. If it doesn't show that you are 100% complete, then follow the below steps to complete your EDP. Take your time! Remember...this is to help you plan for YOUR future!



- Click on "My Progress". A list of items will come up...anything with a red X needs to be completed. Each grade has different requirements for completion.

Career Cruising Español Help My Account Careers, schools and more...

Sample02 My EDP Assessments Careers Education Financial Aid Employment

My EDP Build My Resume Share My EDP Print My EDP

My Progress

My Progress 0% 20 40 60 80 100% 0%

- My Assessments
- My Careers
- My Education
- My Scholarships & Financial Aid
- My Course Plan
- My Goals & Plans
- My Activities & Experiences
- My Assignments & Activities
- My Journal
- My Advisement Log

My Progress - Grade 11

Click on a requirement name to go to the related section of your EDP.

- My Saved Careers – Minimum 5** (Incomplete)

Explore your career options. When you find a profile that interests you, click Save to My EDP.
- Career Selector** (Incomplete)

Search for careers based on a variety of criteria, such as core tasks, earnings, and level of education. Be sure to save your results!
- My Saved Schools – Minimum 2** (Incomplete)

Explore your college options. When you find a school that interests you, click Save to My EDP.
- Career Planning Activities – Minimum 4** (Incomplete)

Keep track of your career planning activities, like job shadows, college and job fairs, and more.
- Career & Life Goals** (Incomplete)

Keep track of your Career & Life goals. Where do you want to be in one year? Five years? And beyond.

Complete Incomplete

- You can complete each item by clicking on it and following the directions. For example, to complete My Skills, click Start Now below My Skills. If you have any questions, please ask Mrs. Smith.

Career Cruising Español Help My Account Careers, schools and more...

ina My EDP Assessments Careers Education Financial Aid Employment

My EDP Build My Resume Share My EDP Print My EDP

My EDP

My Progress 25% 25 50 75 100% 25%

- My Assessments
 - Matchmaker & My Skills
 - Ability Profiler
 - Learning Styles
 - Other Assessments
- My Careers
- My Education
- My Scholarships & Financial Aid
- My Education Plan
- My Goals & Plans
- My Activities & Experiences
- My Assignments & Activities

Matchmaker & My Skills

Click on a result set label to load those results into Career Matchmaker.

Your Saved Matchmaker Results

Best Match	Matchmaker Label	Date Updated	My Skills
3/13/13		03/13/2013	Start Now

Showing Results for: 3/13/13

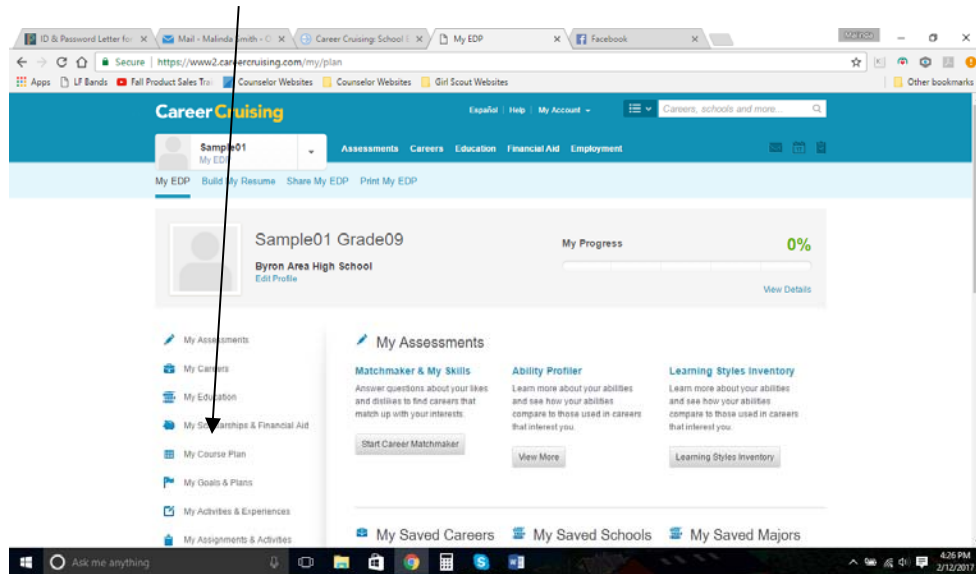
Matchmaker

Career Interest Risk

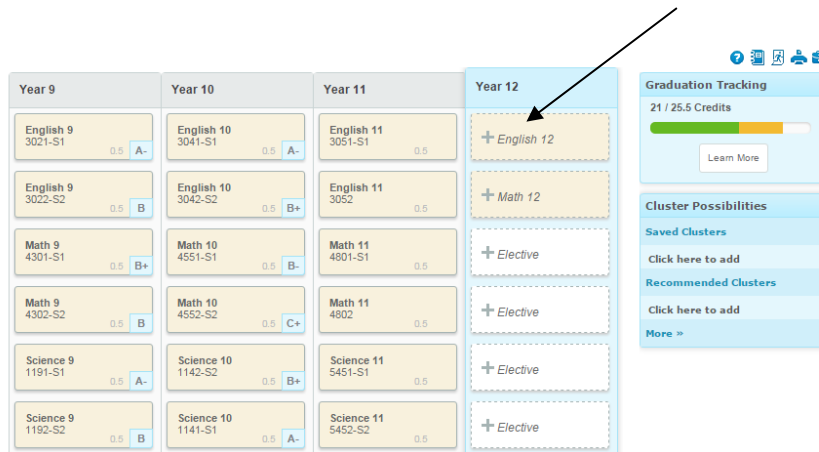
- Announcer**
Announcers present weather, sports, and other newsworthy stories on TV or radio.
- Pharmacy Technician**
Pharmacy technicians work under the supervision of pharmacists to prepare and fill medical

Scheduling

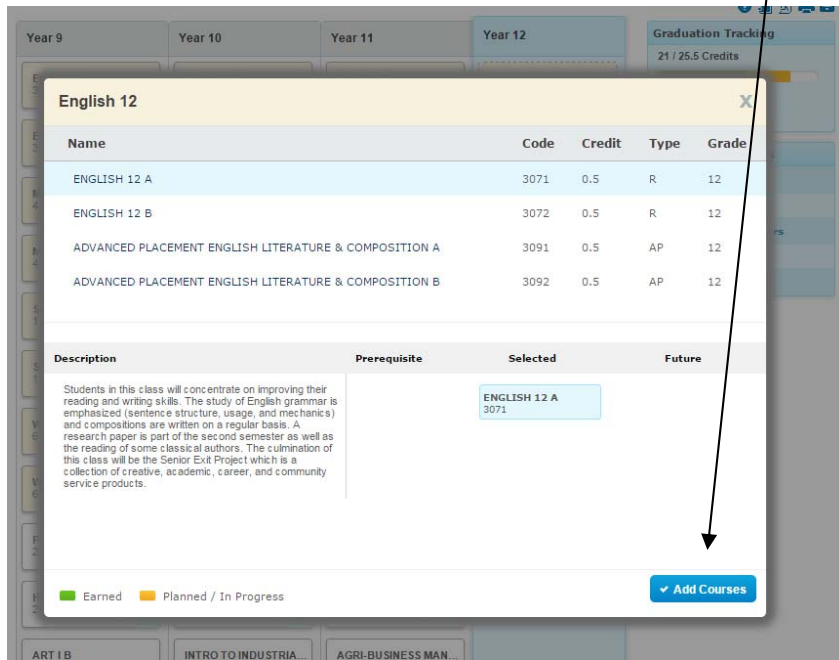
1. Click on "My Course Plan".



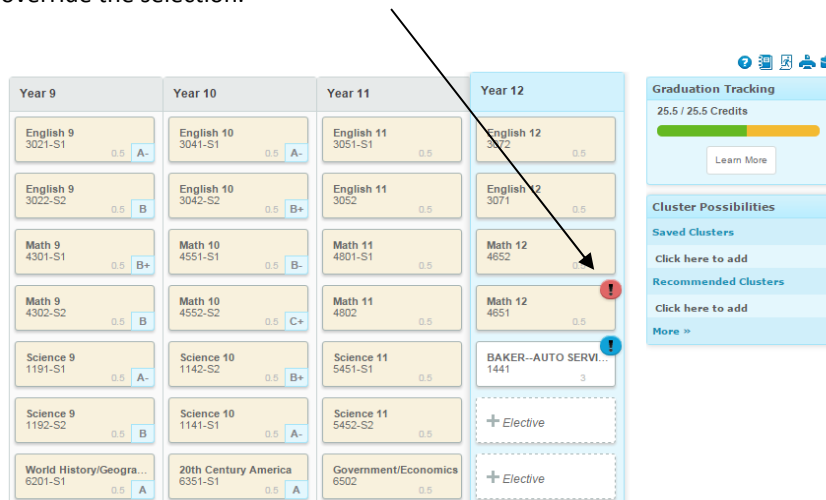
2. The year that you will be scheduling for should be highlighted in blue. This example is a current 11th grader and will be selecting course for 12th grade. If you are a current high school student, courses that have been completed, or are in progress, should automatically be populated. If there is an error, let Mrs. Smith know. PowerSchool is the official "keeper" of your credits, Career Cruising shows you your course history to help you select your courses for next year. To select course, click on the plus symbol.



- Then select the course you'd like to add (it will highlight in blue), then click "Add Courses". Make sure both semesters appear on your course list. Continue this until you have all 7 credits. Course descriptions will show up when you click on a course.

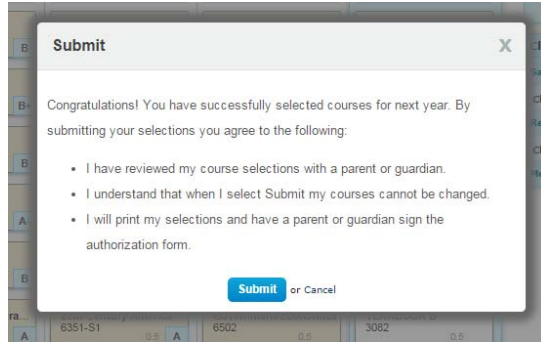


If you get a red alert button, that means you will not be able to lock in your courses and will need Mrs. Smith to override the selection.




Once you have selected your courses, click "submit" which will then lock in your selections. Please make sure you are sure of your selections before you hit submit!

If you have successfully locked in your courses, you will get the below message...



Hit "Submit". You will then get a "Course Request Sign Off Sheet" that both you and a parent need to sign and return to Mrs. Smith. And...you're done!

COURSE REQUEST SIGN OFF SHEET			
← Back		Print This Document	
COURSE REQUEST SIGN OFF SHEET		STUDENT INFO	
 22822606		Sample02 Grade11 BYRN-11178847202 (Grade 11) Byron Area High School	
SUBMISSION INFORMATION			
Please return the signed sheet to Mrs. Smith's office.			
CREDIT HISTORY		Byron High School Graduation Requirements	
Code	Course	Mark	Year
3021- S1	ENGLISH 9 A	A-	01/14
3022- S2	ENGLISH 9 B	B	06/14
4901- S1	GEOMETRY A	B+	01/14
4302- S2	GEOMETRY B	B	06/14
1191- S1	BIOLOGY IN AGRICULTURE A	A-	01/14
1192- S2	BIOLOGY IN AGRICULTURE B	B	06/14
6201- S1	WORLD HISTORY/GEOGRAPHY A	A	01/14
6202- S2	WORLD HISTORY/GEOGRAPHY B	A-	06/14
2552- S2	PHYSICAL EDUCATION	A-	06/14
2551- S1	HEALTH AND WELLNESS	A-	01/14
2102- S2	ART I B	A	06/14
2101- S1	ART I A	A	01/14
3102- S2	SPANISH I B	B	06/14
3101- S1	SPANISH I A	B+	01/14
		Byron High School Graduation Requirements	
		Earned Planned Remaining	
		English	2 2 0
		Math	2 2 0
		Science	2 1 0
		Social Studies	2 1 0
		P.E. / Health	1 0 0
		Visual, Performing and Applied Arts	1 0 0
		World Languages	2 0 0
		Computer Education	0 1 0
		General Electives	2 4.5 0
		25.5 / 25.5 Credits	
		Total Credits: 28	14 11.5 0