

Baker Course Selections for 9th to 10th Grade

Diploma Requirements

	<i>Regents Diploma</i>	<i>Advanced Regents Diploma</i>
English	4	4
Social Studies	4	4
Math	3	3
Science	3	3
World Languages	1	3
Fine Arts	1	1
Health	½	½
Physical Education	2	2
Electives	3 ½	1 ½
Total Units Required for Graduation	22	22

SPECIFIC EXAMINATION DIPLOMA REQUIREMENTS

Regents Diploma - Students must score a minimum of 65% on 5 Regents exams: Algebra I, Geometry or Algebra II, Global History and Geography, US History and Government, Comprehensive English, and one of the sciences (Earth Science, Living Environment, Chemistry, or Physics).

Regents Diploma with Advanced Designation – Students must successfully pass 8 Regents exams in the following: Algebra I, Geometry and Algebra II, Comprehensive English, Global History and Geography, US History, Living Environment Regents exam plus one additional Regents exam in a physical science (Earth Science, Chemistry, or Physics)

Baker Course Selections for 9th to 10th Grade Transitioning Durgée Students

English

English 10H (Honors) (40 Weeks 1 Credit) The English 10 Honors course provides a reading and writing program that focuses on higher level thinking skills. Experiences in literature will concentrate on the short story, the novel, drama, poetry, and non-fiction. Various types of writing will be explored such as literacy analysis, essays, and reading responses. Several collaborative and individual activities involving critical thinking skills will be assigned.

English 10R (40 Weeks 1 Credit) The literature taught in English 10 is taken primarily from the Western European tradition and is teamed with the Social Studies curriculum. Students read a variety of authors and genres from antiquity through modern day. Students read at least two novels and one play. These include selections from Shakespeare, tragedies, poetry and works of non-fiction. A variety of research projects as well as group and individual oral presentations are incorporated into the course. This course is designed to continue to prepare students for the requirements of a Regents diploma.

Creative Writing (Non Fiction) (20 Weeks 1/2 Credit) Creative Writing: Non-Fiction will be offered concurrently with SUNY Oswego's CRW 208: Creative Nonfiction Writing: Introductory. This course introduces students to various modes of nonfiction writing, helps them analyze and evaluate literature in the genre, and provides an environment in which they develop writing in nonfiction modes will introduce students to creative writing techniques for developing plot, setting, character, conflict and resolution. It will focus on the continued discovery and development of the student's voice. This course will introduce students to genre studies from the perspective of the writer and push them to utilize other writers' craft to develop their own. This elective cannot be used to fulfill the 12th grade English requirement.

Creative Writing (Fiction) (20 Weeks 1/2 Credit) Creative Writing: Fiction will be offered concurrently with SUNY Oswego and their CRW 206 course Fiction Writing: Introductory. This course will be focused on fiction writing with specific emphasis on character study, plot development, plotlines, dialogue, as well as other fiction writing techniques. The course will culminate with the development and publication of students' original fiction works. This course will focus on the development of narrative fiction and poetry, as well as magazine article writings, short stories and/or technical writing styles. Proofreading and editing skills will be emphasized in order to help students develop as writers. Students will also create a literary publication for distribution throughout the school and the greater community. This elective cannot be used to fulfill the 12th grade English requirement.

Interpretation of Film (40 Weeks 1 Credit) The interpretation of film course will provide students with the skills and vocabulary necessary to make meaning of film through formal analysis. We will cover films from the silent era to contemporary pieces, paying attention to the small detail of what we see and hear, and how these details determine meaning. This course will introduce students to the different organizational structures of film, including narrative films, documentary and experimental, which will further enhance their understanding of genre specific films. Students will be expected to produce multiple pieces of writing and produce short films in order to articulate their understanding.

Social Studies

AP World History (40 Weeks 1 Credit) This is a full year course for 10th grade AP World History. Students must have completed Pre-Advanced Placement History. This course will increase student understanding of World History historical themes and contributions. The purpose of AP World History is to develop greater understanding of the evolution of global processes and contacts in different types of human societies. The course offers balanced global coverage, with Africa, the Americas, Asia, Europe, and Oceania all represented. Higher level reading, comprehension, and writing skills are expected, as well as the ability to move at an accelerated pace. All students are expected to take the Advanced Placement World History examination in May. A fee will be charged for the exam. Students must also take the Global History Regents Exam in June in order to meet the requirement for a NYS Regents diploma.

Global History and Geography II (40 Weeks 1 Credit) Students will continue with the histories of China, Japan, South Asia, the Middle East, Latin America, Africa, and Europe, beginning in the mid-1700's. The course will conclude with an analysis of economic interdependence, globalization, modernization, and issues concerning human rights and the environment. Students are required to take and pass the NYS Regents in Global History at the end of this course.

Intro. to Psychology (20 Weeks 1/2 Credit) Psychology is the study of human behavior and mental processes. This course explores a wide range of topics related to human behavior from physiology to abnormal psychology. "Introduction to Psychology" offers a hands-on approach to studying introductory psychological principles. Students who take this course will be expected to complete a number of writing assignments and participate in class activities. This course is highly recommended for college bound students who will be required to take Psychology courses after graduation from high school.

Introduction to Sociology (20 Weeks 1/2 Credit) Sociology is the study of how people, groups, and societies differ from and interact with one another. Like the natural sciences, the goal of sociology is to find order out of seeming chaos - to look for patterns in behaviors of social groups that on the surface may look like random variations. It is the intent of this course to deal with both how to study human behavior in social settings and the study of selected patterns of behavior.

History of Sports (20 Weeks 1/2 Credit) This course is a chronological history of modern sports beginning with the Industrial Revolution and continuing through yesterday's headlines. The course will investigate the origins of today's sports in England and the United States as well as its heroes. It will analyze the political, social, and economic impact of modern sports through the lens of the modern Olympics, women's rights, civil rights, business, professional and amateur athletics, and much more.

Criminal Law (20 Weeks 1/2 Credit) The course is designed to give students a practical understanding of law and the legal system which will be of use in their everyday lives. Students will improve their understanding of the fundamental principles and values underlying our constitution, laws and the legal system in general. The course promotes an awareness of current issues and controversies relating to criminal law and provides an opportunity to consider and clarify attitudes toward the role that law, lawyers, law enforcement officers, and the legal system play in our society. Hopefully, this kind of course will bring about a greater sense of justice, tolerance, and fairness in students, and also encourage effective citizen participation in the legal system. Topics include an introduction to law and legal systems, criminal justice, including its application to juveniles, and individual rights and liberties.

Math

Intermediate Algebra (40 Weeks 1 Credit) *Prerequisite: Passed Algebra I Regents* - This course can serve as the second course for students who need to continue the study of mathematics and obtain a 2nd or 3rd mathematics credit. The course includes work with linear and quadratic equations, absolute value equations and inequalities, polynomials, sequences, linear systems, radicals, and pattern recognition and description. Emphasis will be placed on topics that will help each student prepare for college placement testing and/or a 3rd math course.

Geometry (40 Weeks 1 Credit) *Prerequisite: Passed Algebra 1* - This course is intended to be the second course in mathematics for high school students. Within this course, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways, both formal and informal, that their conclusion follows logically from their hypothesis. This course is meant to employ an integrated approach to the study of geometric relationships. Integrating synthetic, transformational, and coordinate approaches to geometry, students will justify geometric relationships and properties of geometric figures. Congruence and similarity of triangles will be established using appropriate theorems. Transformations including rotations, reflections, translations, and glide reflections and coordinate geometry will be used to establish and verify geometric relationships. A major emphasis of this course is to allow students to investigate geometric situations. Properties of triangles, quadrilaterals, and circles should receive particular attention. It is intended that students will use the traditional tools of compass and straightedge as well as dynamic geometry software that models these tools more efficiently and accurately, to assist in these investigations. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from the other sciences. Additionally, this course culminates in a NYS Regents Examination.

Algebra II (40 Weeks 1 Credit) This course is the capstone course of the three units of credit required for an Advanced Regents diploma. It is a continuation and extension of Algebra 1 with some references to Geometry. This course focuses on four critical areas of the Common Core model pathway for Algebra II: functions, polynomials, periodic phenomena, and collecting and analyzing data. The course begins with a review of linear and quadratic functions, to solidify a foundation for learning new functions. Students will make connections between verbal, numeric, algebraic, and graphical representations of functions and apply this knowledge as they create equations that can be used to model and solve mathematical and real-world problems. As students refine and expand their algebraic skills, they will draw analogies between the operations and field properties of real numbers and those of complex numbers and algebraic expressions. The Common Core practice standards are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically. The course concludes with the NYS Algebra II Common Core Regents exam. Each student is required to have a graphing calculator for this course.

Computer Science

Advanced Placement (AP) Computer Science Principles (PLTW)

(40 Weeks 1 Credit) Prerequisite: Passed Algebra I Examination.

Open doors in any career with computer science. Students create apps for mobile devices, automate tasks in a variety of languages, find patterns in data, and interpret simulations. Students collaborate to create and present solutions that can improve people's lives. How will computing and connectivity transform your world: Unit 1: Algorithms, Graphics, and Graphical User Interfaces (48%) Unit 2: The Internet (18%) Unit 3: Raining Reigning Data (17%) Unit 4: Intelligent Behavior (17%) This course is highly recommended for students interested in careers in computer science, engineering, or business. This course will require strong reading and logic/reasoning skills. All students enrolled in this course must take the Advanced Placement exam given in May. A fee will be charged for the AP exam.

Program Design and Development (OCC CSC 110) (20 Weeks 1/2 Credit) C++ is becoming

the language of choice for introducing college students across the country to computer science and programming. This 1/2-unit course is an introductory course to computer programming using the C++ computer language. Topics to be covered include history of computers, computer architecture, variables and constants, math operations, decision making, if/else statements, loops, and functions. This course is highly recommended for students interested in careers in computer science, engineering, or business.

Science

Earth Science (Regents) (40 Weeks 1 Credit) Earth Science is an intensive, student-activity oriented course.

Emphasis is given to laboratory and field experiences. The course focuses on a student investigatory approach including such topics as: observation and measurement of the environment, earth motions, energy in earth processes, insolation, atmospheric energy exchanges, energy budget, erosional and depositional processes, rock formation, plate tectonics, and geological history. Students must have satisfactorily completed the course laboratory requirements to be eligible for admission to take the regents examination.

Chemistry (Regents) (40 Weeks 1 Credit) Regents Chemistry is a course of study which presents a modern view of

chemistry suitable for pupils with a wide range of skills and abilities. Students are made aware of the technological impact of chemistry as well as the total effect of the application of chemical principles on our lives. The course deals with chemical reactions and the various factors which cause, control, and result from these reactions. Areas of emphasis include atomic structure and chemical bonding, ionization, oxidation-reduction, chemical kinetics, stoichiometry, and organic chemistry. The course consists of two periods of lecture and one period of laboratory in a two day cycle. Students must satisfactorily complete the laboratory requirements for the course in order to be eligible for admission to take the Regents examination.

Global Environment (ESF) (40 Weeks 1 Credit)

Global Environment (ESF) : : 40 Weeks : 3 ESF Credits

Prerequisites: Successful completion of NYS Regents Earth Science, NYS Regents Biology, and successful completion of or concurrent enrollment in NYS Regents Chemistry.

Global Environment is a three (3) credit introductory, college-level environmental science course that explores large-scale environmental issues and their relationship to human society. Students will gain knowledge and tools to make informed decisions regarding their environment and the earth's future. The focus is on relationships among organisms and their environment, human populations, and long term sustainability of natural resources. Topics include general ecology, biodiversity loss and conservation, human population growth, global climate change, aquatics, pollution issues, soil conservation, green technology, and the environmental movement. Reduced tuition fee for SUNY ESF college credit.

PLTW Human Body (40 Weeks 1 Credit) Prerequisite: Concurrent Enrollment in College Preparatory Science and Mathematics Courses This is the 2nd of a 4 course sequence in Biomedical Sciences. Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data software to monitor body functions like muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

World Languages

French III (40 Weeks 1 Credit) Prerequisite: French II This full-year, one credit course brings the communication skills to the Regents level of proficiency. The development of conversational and communicative skills is the central focus. Much small group work is done to allow students to practice speaking French on topics of interest to them. Emphasis is on vocabulary development and the refinement of previously learned structures while slides, realia and authentic French materials are used to help students experience selected areas of the culture of French speaking peoples.

German III (40 Weeks 1 Credit) Prerequisite: German II This full-year, one credit course brings the modalities of listening, speaking, reading, and writing to the Regents-level of communication. Authentic German materials are used and projects/skits that emphasize speaking skills are prioritized. The conversational past is the central grammatical-focus and journaling is also part of the coursework. Select areas of German culture, including travel-related topics, are studied in great detail. Current events in Germany, Austria, and Switzerland are also discussed.

Spanish III (40 Weeks 1 Credit) Prerequisite: This full year, one credit course brings the communication skills to the Comprehensive Final Exam level of proficiency. In this class students explore Spanish through storytelling, novels, songs, movies, current and cultural events and more. Students will be expected to read, listen and respond in Spanish throughout the course. Communication, critical thinking and literacy at an intermediate level are prioritized.

Art

Drawing and Painting I (40 Weeks 1 Credit) Drawing & Painting is the foundation and pre-requisite for other Advanced Drawing & Painting courses. This course emphasizes drawing as the foundation for all other art forms and enables students to gain a broad and rich understanding of a variety of art techniques and processes. Students will become aware of various art movements and trends and create artwork based on a variety of themes.

Introduction to Ceramics and Sculpture (20 Weeks 1/2 Credit) Introduction to Ceramics and Sculpture I is the foundation and prerequisite for other Advanced Ceramics and Sculpture courses. This course is a survey of the techniques and tools that are used in both ceramic sculpture and in other three-dimensional sculptural mediums. This course will provide the foundations a student will need in order for them to progress into the advanced Ceramics and Sculpture Courses.

Digital Photography I (20 Weeks 1/2 Credit) Digital Photography I will serve as an introduction to the world of digital photography and computer based editing and compositing of photographs. Students will use digital cameras to take pictures and use Adobe Photoshop, Lightroom and other computer software programs to learn how to touch up, alter and compose photographs into digital works of art.

Digital Photography II (20 Weeks 1/2 Credit) This course is an extension of Digital Photography I. Students will learn more advanced approaches and techniques using their digital cameras (composition, lighting, color theory and design) and post-production editing software like Photoshop & Lightroom. Students will begin to channel their Digital Photography and Media Art skills into specific directions based on exploration during Digital I and II, in order to prepare for Digital III, which will function as an independent study where a body of work will be produced and compiled as a final portfolio for the course sequence.

Photography I (20 Weeks 1/2 Credit) This course is an introduction to 35mm black and white photography and will include the use of photographic materials and equipment. Course content covers 35mm camera operation, black and white film developing, making enlargements and mounting prints. Emphasis is placed on 'seeing' creatively and organizing well designed photographic images.

Photography II (20 Weeks 1/2 Credit) *Prerequisite: Must be taken sequentially.* This course is an extension of Photography I emphasizing further exploration of photography as an art form. Materials covered may include solarization, toning, hand coloring, digital, and other special effects done with the camera and in the darkroom.

Information and Business Management

Accounting I (40 Weeks 1 Credit) Are you planning to attend college and major in Business Management, Business Administration, Accounting, Economics, Marketing, or Finance? OR, do you want a skill that can lead to an interesting entry-level position? Accounting may be just what you need. Learn the accounting system that is used by all well-managed businesses. In this Accounting course, you will learn to record, classify, summarize, and interpret financial data for a business. Automated accounting is included as well as spreadsheet applications.

Business Management (20 Weeks 1/2 Credit) The purpose of this course is to provide an understanding of the characteristics, the organization, and the operation of business. The course is designed to provide students with a sound foundation as they prepare for business or other careers as well as providing an awareness of the many activities, problems and decisions involved in successfully operating a business. Topics include the dynamics of business, labor relations, management functions and responsibilities, the link between business and society, and the importance of working toward a goal as a team.

Career and Financial Management (20 Weeks 1/2 Credit) Do you know what you want to do with the rest of your life? Do you have a plan? This might be the course for you! Career & Financial Management is a great course for those interested in a business major, as well as those who would just like to know more about business and/or career exploration. Career & Financial Management provides students with valuable employability skills and knowledge of the workplace. Topics covered include: career planning, career development, time management, personal budgeting, purchasing a car, writing checks, balancing a checkbook, savings accounts, income tax, insurance, and credit. Course work includes projects and hands-on activities that simulate the real world.

Introduction to Computer Literacy (OCC CIS 100) (20 Weeks 1/2 Credit) Are you going to college, or do you plan to go to work? Whatever your plan is, this course is for you! Students will demonstrate the skills needed to be an informed citizen, achieve academic success and workplace success, and participate in an increasingly globalized environment. Students will use web applications, word-processing, spreadsheets, database, presentation software and other software as applicable to learn, search, organize and communicate information to an audience. This course will give you the 21st century skills you need for success in college or work.

Money Management (20 Weeks 1/2 Credit) Do you have the necessary skills to live on your own? This course will arm you with the tools to gain control of your financial future. Money management covers topics such as personal banking (checking, savings and budgeting), buying a vehicle, renting to buying a property, credit (protecting you identity), income taxes, insurance and investing in your future. Course work includes real-world projects and hands-on activities.

Sports and Entertainment Marketing (20 Weeks 1/2 Credit) This half-year course is designed to introduce the student to the world of marketing and how it applies specifically to the sports and entertainment industry. Sports and entertainment are important parts of our modern economy. Fans and companies spend billions of dollars each year on sports. Entertainment is one of the largest exports from the United States to the rest of the world.

Wall Street - Investing in your future: (20 Weeks 1/2 Credit) This fun one-semester course is designed for all students with a desire to pursue financial security by learning and understanding how the financial markets operate. The complete ins and outs of the stock market and investing will be explained. A simulation of stock market activities will give the students an opportunity to participate in and experience investing options.

Family and Consumer Science

Child Psychology (20 Weeks 1/2 Credit) This is a 20 week program to survey the challenges of understanding and guiding young children effectively through the first ten years of growth. Prenatal development, discipline, and learning are only a few of the areas discussed. This course is recommended for those interested in pursuing a career in any of the human service areas, such as child care, teaching, social work, probation/police science, etc.

Cooking Coast to Coast (20 Weeks 1/2 Credit) Prerequisite: Foods and Nutrition (Enrollment Preference will be given to Juniors and Seniors) This course provides a study of American food traditions and focuses on the influences of foreign cultures in our country: region by region across the map. Students prepare foods brought to the USA from countries around the globe. The course is a mixture of individual work and cooperative group work.

Food and Nutrition Core (20 Weeks 1/2 Credit) This course is an introduction to basic food preparation, a food class for all students, teaching basic cooking and sanitation skills, which are needed for professional and personal purposes throughout life. Students will learn basic cooking techniques, recipe reading & planning as well as kitchen math, measurements and equivalents. This course is a prerequisite for all other cooking courses.

Global and Gourmet Foods (20 Weeks 1/2 Credit) Prerequisite: Food & Nutrition Core The Global and Gourmet Foods course introduces students to the ways in which the culture and traditions of regions and countries influence food choices. Students will identify and prepare foods from various regions and countries to compare cuisines, ingredients used, and preferred cooking methods. Students will also examine the issues and conditions which affect the availability and quality of food in the global market. Current issues related to global nutrition from production through consumption will be explored. Through this investigation students will understand and appreciate diverse cultures. Students will have the opportunity to examine the wide variety of career paths in the global and gourmet foods fields and identify the knowledge and skills necessary for success within the fields.

Music and Performing Art

Concert Choir (40 Weeks 1 Credit) As incoming sophomores, you can look forward to a Concert Choir of 100 mixed voices in September. The group performs at least four times during the year. Music selections throughout the year consist of all styles from the classics to pop. One year of this course will fulfill the New York State Regents Music/Art Requirement for graduation. No audition is necessary for this choir made up of students in grade 10-12.

Concert Band (40 Week 1 Credit) Band work includes instrumental group lesson, concert band, and required performance and non-performance evaluations. The concert band performs NYSSMA grade 3-5 literature. Opportunities are available for involvement in select ensemble groups such as Jazz Ensemble and Chamber Music Ensembles. Students will participate in five rehearsal sessions plus one instructional session per week.

Orchestra (40 Weeks 1 Credit) Membership is open to any regularly enrolled student subject to instructor's approval. Orchestra work includes weekly lessons, 5 rehearsals per week, and required performances. String Quartet and String Ensemble may be available.

Comprehensive Musicianship I (40 Weeks 1 Credit) Guitar players, drummers and music majors learn to read and write music. This course will introduce you to the basic skills needed to read and write music. A brief survey of music history and sight-reading is included. This course fulfills the New York State Regents requirement for art and music.

Technology

Aerospace Engineering PLTW (40 Weeks 1 Credit) Aerospace engineering is a course of study in aerodynamics. The course expands student's horizons with projects developed by astronauts, space-life sciences, systems engineering, and NASA-aerodynamics. Students will have the opportunity to use flight simulators, as well as a wind tunnel to test engineering designs.

Architectural Drawing (20 Weeks 1/2 Credit) Architectural Drawing : 7612 : 20 weeks : 1/2 Credit This course challenges students in architectural design. It emphasizes architectural styles, kitchen and bath design, floor planning and drafting technique. Each student will have to design a house to meet specific criteria utilizing the principles of good design and then build a scale model. This course is good for students with a wide range of interests from construction, interior design, architectural drafting and design, to home ownership and home remodeling. Chief Architect is used for project design.

Basic Automotive (20 Weeks 1/2 Credit) A course for anyone interested in automobiles or any motorized vehicles. Included are activities that will help a consumer avoid fraud and get the most for their money when dealing with automobiles. Activities include: car maintenance, car care, tune ups, brake repair, lubrication, cooling systems, tire and body care and small engines.

Communications Systems (20 Weeks 1/2 Credit) This is a course for anyone interested in the areas of audio, visual and print communications. Projects and activities include shirt design, screen printing a shirt, making business cards, animation and designing a graphic novel.

Computer Aided Drafting (20 Weeks 1/2 Credit) This course gives students an understanding of the application and techniques of Computer Aided Drafting. Students use CAD to create technical drawing solutions for machine, architectural, and engineering drawing problems. This course is highly recommended for students entering engineering and technically related fields.

Computer Integrated Manufacturing (40 Weeks 1 Credit) This course is an introduction to Robotics and CNC Machining. Builds upon the computer solid modeling design skills developed in PLTW - Design Drawing for Production (DDP). Students will be presented with design problems that require the use of AutoCAD Inventor to develop solutions to problems. They will use rapid prototyping equipment to produce three-dimensional models of the solutions, as well as learn how to program a CNC machine and Robots to create their design. This is a hands on engineering course.

Graphic Communications (20 Weeks 1/2 Credit) This course is designed for anyone interested in print communications, commercial art or photography. Advanced printing activities include layout and design, computer graphics with Adobe Photoshop, shirt designs, ads, surreal and house composition. It is recommended that the student first take Communication Systems 7502 or have a good working knowledge of computers.

Materials and Processing (20 Weeks 1/2 Credit) Students will develop practical skills while producing several useful take-home projects. A variety of materials and processes (both modern and traditional) will be utilized. Project areas will include: wood, sheet metal, wrought iron and acrylics.

Media Production (20 Weeks 1/2 Credit) This course will give students an understanding of the major communications media and also how to use these various types of media. The forms of media which students will be utilizing will include: audio, video, integrated electronic media and computer-controlled media with a strong emphasis on digital video. Using Adobe software, projects include music video, history of movie trailers, destination video and claymation.

Pre-Engineering (20 Weeks 1/2 Credit) A lab course designed for students who want to pursue an engineering, math/science or technology related career. Activities will include: engineering drawing, problem solving, machine tool theory, materials selection and technical data assessment. Students will participate in the identification, analysis and solving of engineering problems.

Principles of Engineering PLTW (40 Weeks 1 Credit) Prerequisite: DDP/PLTW Requisite: Concurrent enrollment in college preparatory mathematics. This is a broad based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem solving skills that are involved in post-secondary education programs and engineering careers. They will explore various engineering systems and manufacturing processes. The main purpose of this course is to experience through theory and hands-on problem-solving activities what engineering is and “Is a career in engineering or engineering technology for me?”

Production (Construction and Manufacturing) (20 Weeks 1/2 Credit) A skills development course for students interested in construction and/or manufacturing. Activities will include a school/community construction project, a mass production product and/or an involved individual project. A hands on course for students interested in construction and/or manufacturing. The course will cover construction techniques and careers. The class project will include building either a model home or full size shed. Students then design a product, set up an assembly line and then produce the design.

Radio and Broadcasting WBXL (20 Weeks 1/2 Credit) This course is designed for any student interested in exploring radio broadcasting and audio communication. Students will gain knowledge of how a radio station functions, proper broadcasting procedures, and design personal broadcasting projects to be carried out on the air! Students will participate in radio station operations for WBXL. This course is a great opportunity for those interested in a career related to radio or TV broadcasting and communications!

Robotics Engineering (20 Weeks 1/2 Credit)

This class challenges students to work through the key steps of Engineering Design as a means for problem-solving using equipment from Vex Robotics. Students will be asked to design, assemble, program and operate a robot for specific task completion and competition. The class will work in teams and continually work to modify and improve their robots for the best possible performance. Students will also be asked to complete some research on applied robotics which are currently being developed or used in industry. Offered at Baker only.

Webpage Design (20 Weeks 1/2 Credit) An exciting and interactive experience for anyone knowledgeable in the use of computers. Web page software is used to develop interactive multimedia. Activities will include tutorials, small assignments and putting a web page online with wix.

Physical Education and Health

Athletic Training (40 Weeks 1 Credit) This course offers an introductory look at the broad field of Sports Medicine in today's society. It is an essential course for students interested in the field of Athletic Training and would be beneficial for anyone considering a career in physical therapy, nursing, or medicine. It covers basic human anatomy, human physiology, athletic injuries, prevention of athletic injuries, evaluation techniques, as well as the care and rehabilitation of athletic injuries. After school observation hours are required to provide students with authentic experiences in which they can demonstrate the knowledge gained in the classroom as well as expand their knowledge in the healthcare field.

Firefighter/EMS (20 Weeks 1/2 Credit) (Enrollment Preference will be given to Juniors and Seniors) This course will expose students to basic firefighting skills and basic emergency medical training, and prepare a student to join a volunteer fire department as an exterior firefighter. Students will be provided with basic training in Scene Support, CPR/AED and First Aid. During the Scene Support Operations Unit, students will be provided with the training that provides them with skills to support fire activities that arise before, during and after fire attacks. Additionally, students will learn CPR / AED which will certify them to provide effective basic life support in the event of an emergency. This course will also address Basic First Aid and the signs and symptoms of sudden injury and/or illness.

Health (20 Weeks 1/2 Credit) This course is designed to provide students with comprehensive knowledge and skills necessary to achieve a health enhancing lifestyle. The course consists of planned learning experiences that will allow the students to authentically apply the learned skills which are aligned with the New York State Health Education Learning Standards. The goal of Health Education is to give the students the necessary confidence and skills to practice health enhancing behaviors. This course is a graduation requirement.

Physical Education (40 Weeks 1/2 Credit) The Baldwinsville Central School District Commencement Standard in Physical Education for students is to develop an advanced level of wellness skills to create and pursue a lifetime fitness plan. PE classes are designed to make learning fun. They are geared toward positive self-esteem and co-operative learning experiences. Some of the activities include step aerobics, kickboxing, tae-bo, Pilates, hip hop dance, yoga, weight training, tennis, physical fitness, various team and individual sports and healthy living activities. Sophomores have a series of required units of study including successful completion of the Baldwinsville swim/water safety unit.