

IRONTON HIGH SCHOOL



PROGRAM OF STUDIES 2011-2012

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Ironton High School
Program of Studies
2011-2012

Ironton City Board of Education

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***The Ironton High School Program of Studies has been approved by the
Ironton City Board of Education and the Ohio Department of Education.***

PURPOSE

The purpose of this publication is to help the student select courses that will be best for him/her at Ironton High School. The courses a student selects are individual and should reflect his/her interests, achievements, and ambitions as well as a realistic view of their potential.

PHILOSOPHY

The basic philosophy of the guidance program of the Ironton City Schools is that each individual is a worthwhile person. The process of assisting individuals to discover and develop their abilities, limitations and interests is of prime importance. Guidance is helping the student, through his/her own efforts, to identify and solve problems and thus promote academic success, personal happiness and usefulness to society.

REGISTRATION PROCEDURE

Class registration is a very important procedure for all students. Their interest and general academic success throughout school is dependent upon their personal curriculum choice. For this reason, students should always consult parents as well as guidance counselors when completing their schedules. They should also try to orient themselves toward a particular vocational/technical or college-bound profession in order to list courses more relative to their future employment needs. Both interests and abilities of the student should be given careful consideration when making career decisions.

In order to complete registration, a copy of a student's class selections must be signed by one of his/her parents to indicate approval. If the schedule copy is not returned by the student or parent within two weeks, the school can only assume that there are no objections and grant approval for the schedule to be used during the coming year.

Guidance services are always available to every student in the school. Parental appointments in regard to any scheduling problems may be arranged through appointment by calling 532-3911. It is the function of our Guidance Department to aid students in making wise course selections by helping them to recognize their individual abilities, limitations, and interests. The counselor also helps the students with various personal problems so that they may better adjust and gain maximum satisfaction from the school program.

The Minimum Recommended College Preparatory Program for Many of Ohio Colleges and Universities

If you plan to attend an Ohio college or university, there are certain courses you should take in high school in order to be eligible for "unconditional" admission. If a student does not have these courses, he may be admitted "conditionally" with the understanding that needed courses be completed while in college at the student's expense.

The recommended college preparatory program is as follows:

- 4 units of English, with emphasis on composition
- 4 units of social studies; Integrated Social Studies I, Integrated Social Studies II, American Government (PAD)
- 4 units of mathematics, including Algebra I, Algebra II, and Geometry
- 4 units of natural science with significant laboratory experience, such as Physical Science, Biology and Chemistry
- 2 units of foreign languages in the same language

- 1 unit of visual or performing arts (courses, which satisfy this requirement, are: band, vocal music, art..)

In short, the adoption of "Conditional/Unconditional" admissions plan does not mean that students without a college preparatory background will be denied admission. It merely means that, as has always been the case, students will be required to make up course deficiencies usually within the first year in college.

BOARD POLICY 5127.2

**REQUIREMENTS FOR GRADUATION AND DIPLOMA WITH HONORS
AT IRONTON HIGH SCHOOL**

In order to strengthen the overall educational program at Ironton High School, and in its quest for academic excellence, the Ironton City Board of Education adopts the following policy requirements.

I. A diploma will be granted by the Board to anyone who successfully completes the minimum requirements set by the Board, or the individualized education program developed for the person pursuant to Section 3323.08 of the Revised Code, and who has attained the score designated by the State Board of Education indicating passage of the Ohio Graduation Test in the areas tested, or is excused from taking such test by virtue of a handicapping condition. An honors diploma will be granted to anyone who successfully completes the minimum curriculum or the individualized education program developed for the person pursuant to Section 3323.08 O.R.C., and who attained the designated score indicating passage of the Ohio Graduation Test in the required skills and meeting the additional requirements established by the state Board of Education and the Ironton Board of Education.

II. To be awarded a diploma with honors, the student shall be required to meet at least all but one of the criteria listed in the following paragraphs for either the college preparatory or the career-technical curriculum. A student shall not be required to meet more than the specified number of criteria, nor shall any student be required to meet any one specified criterion.

A. **Academic Diploma with Honors:** Students must meet 7 of the 8 criteria below. Students who complete the college preparatory curriculum in the high school must meet any seven of the following eight criteria in order to receive an Academic Diploma with Honors:

1. Earn four units of English;
2. Earn four units of mathematics, including Algebra I, Geometry and Algebra II or equivalent and another higher level course or a four year sequence of courses that contain equivalent content;
3. Earn four units of science, including Chemistry and Physics;
4. Earn four units of Social Studies;
5. Earn either three units of one foreign language or two units of two foreign languages;
6. Earn one unit of Fine Arts (courses which satisfy this requirement are band, vocal music, art.);

7. Maintain an overall high school grade point average of at least 3.5 on a 4.0 scale up to the last grading period of the senior year;
8. Obtain a composite score of 27 on the American College Testing (ACT) tests or an equivalent composite score (1210) on the Scholastic Assessment Tests (SAT).

B. **Career Technical Diploma with Honors:** Students must meet 7 of the 8 criteria below. Students who complete at least two years of an intensive career-technical education or technical education curriculum in the high school must meet any seven of the following eight criteria in order to receive a Career Tech Diploma with Honors:

1. Earn four units of English, which may include one unit of applied communication;
2. Earn four units of mathematics, which will include Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content;
3. Earn four units of science, including physics and chemistry;
4. Earn four units of social studies;
5. Electives: 4 units of Career-Technical minimum. Program must lead to an industry recognized credential, apprenticeship or be part of an articulated career pathway which can lead to post secondary credit;
6. Maintain an overall high school grade point average of at least a 3.5 on a 4.0 point scale up to the last grading period of the senior year;
7. Obtain a composite score of 27 on the American College Testing Program's (ACT) Tests or an equivalent composite score (1210) on the Scholastic Aptitude Test (SAT).
8. Achieve the proficiency benchmark established for the appropriate Ohio Career – Technical Competency Assessment or equivalent.

III. Units of credit will be awarded in accordance with the Program of Studies Manual.

IV. A total of 25 credits are required for graduation from Ironton High School. The following credits are required for Ironton High School students and Career Center Technical Program students.

Subject Area	High School	Career Center/Technical Program
English	4 credits	4 credits
Mathematics	4 credits	4 credits
Social Studies	4 credits	3 credits
Science	4 credits	3 credits
Health	½ credit	½ credit
Physical Education	½ credit	½ credit
Computer Technology or Fine Arts or Foreign Language	1 credit	1 credit
Electives	7 credits	9 credits

V. Credits for courses earned by tutoring shall be allowed only as per the requirements listed in the Program of Studies Manual issued by the School District.

Guidelines for Weighted and Advanced Placement Classes

1. Weighted sections of the core group classes are:

English 9	Physical Science
English 10	Biology
English 11	Integrated Social Studies I (World History)
English 12	Integrated Social Studies II (American History)
American Government	Integrated Social Studies III

2. Elective weighted classes are:
 - Advanced Algebra II
 - Pre-Calculus
 - Physics I
 - Spanish IV
 - German IV
 - Calculus
 - Chemistry II

3. Elective Advanced Placement (AP) classes are American Government, and English 12.

4. The grade point values under the weighted and AP systems are:
 - A=5 points; B=4 points; C=3 points; D=1 point; F=0 points

5. Weighted and AP classes will be open to students willing to do the additional work at a faster pace. Ohio Achievement Test/ OGT Test scores, previous grades in discipline area, and teacher recommendation will be taken into consideration.

6. A student that establishes a grade point average above a 4.000 by taking weighted classes will slightly lower their grade point average if they elect to take non weighted classes. However, the grade point average will never drop below a 4.000 as long as the student receives A's in the non weighted classes.

FRESHMAN CURRICULUM

Required Subjects

	<u>Credit</u>
English 9 or English 9 (Weighted)	1
Physical Education I	1/4
Health	1/2
Physical Science or Physical Science (Weighted)	1
Math (see electives)	1
Integrated Social Studies I or	1
Integrated Social Studies I (Weighted)	1

Elective Subjects

Personal Skills	1/2
Independent Living	1/2
Art I	1
Marching /Symphonic Band	1
Algebra I	1
Algebra I A	1
Algebra I B	1
Plane Geometry	1
German I	1
Spanish I	1
Computer Applications I	1
Reading/Writing Intervention 9	1
Introduction to Engineering	1
Introduction to Auto Mechanics	1
Music Theory	1/2
Jazz Band	1/2
Student Intervention	1/2
Choir	1

SOPHOMORE CURRICULUM

<u>Required Subjects</u>	<u>Credit</u>
English 10 or English 10 (Weighted)	1
Integrated Social Studies II or	1
Integrated Social Studies II Weighted	1
Biology or Biology W	1
Math (see electives)	1
Physical Education II	¼

Elective Subjects

German II	1
Spanish II	1
Informal Geometry	1
Foods & Nutrition I	½
Foods & Nutrition II	½
Independent Living II	½
Physical Training (Fall Semester)	½
Physical Training (Spring Semester)	½
Art II	1
Performance Choir (audition required)	1
Marching/Symphonic Band	1
Algebra II	1
Advanced Algebra II (Weighted)	1
Principles of Engineering	1
Academic Coaching	½
Multimedia Design- (Advanced Computer Applications)	1
School Publications/Mass Media I	1
Tech Prep Teacher Academy Educational Foundations	1

NOTE: Electives may be chosen from present or lower grade level.

JUNIOR CURRICULUM

<u>Required Subjects</u>	<u>Credits</u>
English 11 or English 11 (Weighted)	1
Math (see electives)	1
Science (see electives)	1
Integrated Social Studies III or	1
Integrated Social Studies III (Weighted)	1

Elective Subjects

German III	1
Spanish III	1
Applied Math (Vocational only)	1
Applied Science (Vocational only)	1
Auto Mechanics I	4
Chemistry I	1
Human Anatomy & Physiology	1
Earth Science	1
Interactive Media I	1
Advanced PE	¼
Art III	1
Pre-Calculus (Weighted)	1
Engineering Tech. Prep. I	2
School Publications/Mass Media II	1
OGT Reading/Writing Intervention	½
OGT Math Intervention	½
OGT Science Intervention	½
OGT Social Studies Intervention	½
Tech Prep Teacher Academy Practical Experience	2

NOTE: Electives may be chosen from present or lower grade level.

SENIOR CURRICULUM

<u>Required Classes</u>	<u>Credit</u>
English 12 or English 12 (Weighted) (AP)	1
American Government	1
American Government (Weighted) (AP)	1
Math (See Electives)	1
Science (See Electives)	1
 <u>Elective Subjects</u>	
Spanish IV (Weighted)	1
German IV (Weighted)	1
Physics (Weighted)	1
Chemistry II (Weighted)	1
Auto Mechanics II	4
Interactive Media II	2
Cooking Around the World	½
Calculus (Weighted)	1
Algebra II B	1
School Publications/Mass Media III	1
Engineering Tech. Prep. II	2
Journey to College	1
Anatomy & Physiology II	1

NOTE: Electives may be chosen from present or lower grade level

COURSE DESCRIPTIONS

ACADEMIC COACHING AND STUDENT INTERVENTION

Academic Coaching This course is designed for students who excel academically in core courses at Ironton High School. It allows the student to aide the classroom teacher by being a peer tutor in our student intervention classes. The tutor will work with the classroom teacher to help students achieve success in the regular curriculum. This is a semester course worth a ½ credit.

Student Intervention This course is designed for students who are in need of extra help to develop and strengthen skills needed to achieve success in the general education curriculum. The student will work hand in hand with the classroom teacher to obtain understanding of related information in deficient areas. Peer academic coaches will be used to assist the intervention students with skills they need to succeed in their academic courses and/or the Ohio Graduation Test. This is a semester course worth a ½ credit.

ART DEPARTMENT

Art I This is a general art course in which students will learn and apply the basic elements of art and principles of design. Using a variety of media, students will learn the basics of drawing, painting, printmaking, sculpture, and an assortment of other crafts. This is a full year course with a \$10.00 lab fee.

Art II This course will build on the skills and knowledge acquired in Art I. Students are given more freedom of expression in their work and the opportunity to fine-tune their artistic abilities. Individuals are required to purchase a sketchbook and complete given assignments each quarter. This is a full year course with a \$10.00 lab fee.

Art III This course is comprehensive of Art I and II. Students will be given the opportunity to work with more advanced media on a larger scale. Individuals will have some freedom in deciding upon and creating their work. Each student is required to purchase a sketchbook and complete given assignments each quarter. This is a full year class with a \$10.00 lab fee.

Art IV This course is designed to be student-centered. Individuals will work with a variety of advanced materials and have the freedom to pursue work that is of interest to them. Students will explore the work of established artists and use this knowledge to enhance their own work. Greater emphasis will be placed on developing sophisticated compositions and on mastering the elements of art and principles of design. Individuals will be required to purchase a sketchbook and complete given assignments each quarter. Students may also be required to purchase additional supplies for their own personal use. This is a full year course with a \$10.00 lab fee.

Advanced Art & Portfolio Development This course is designed for a student who wishes to pursue art on a college level. Students will work with a variety of advanced media pursuing subject matter that is of interest to them. Individuals will develop a portfolio of work to be used for admission to college. Each student will write an artist statement and hold a solo exhibition of their work. Individuals are required to purchase a sketchbook and complete given assignments each quarter. Students will also be required to purchase some additional supplies for their own personal

use. This is a full year course with a \$10.00 fee. Permission from the teacher is required to take this course.

COMPUTER EDUCATION DEPARTMENT

Computer Applications I Computer Applications I is a course designed to provide students with the computer skills necessary to do well in college and to live and work in a technological society. Students will gain hands-on training in document processing using MS Word, spreadsheet skills using Excel, and presentation skills using Power Point. Additional skills will be developed accessing information safely and ethically from the Internet. This course provides occupational preparation for careers in the computer applications field through a focused curriculum, and real-life situations.

Multimedia Design/Computer Applications II This course explores Graphic Design, Hardware, and Software associated with Multimedia Production. The course explores various aspects of multimedia production including: Digital Photography, Webpage Design, Animation, and video editing. Students will develop design skills and techniques using digital cameras and software which may include: Adobe PhotoShop®, Adobe DreamWeaver®, Adobe Flash®, and Sony Vegas® Software in the Windows® environment. This course combines creativity with technology. Students will develop problem solving and critical thinking skills needed for today and tomorrow. Prerequisite: Computer Applications I

School Publications/Mass Media I, II, III In this course, students will develop and strengthen skills used to produce the Ironton High School Year Book and other publications. These skills include ad sales and money management, interviewing and writing, print layout and design, photography, time management and deadlines, plus public relations. Moreover, students will become proficient in desktop publishing through the Taylor Publishing's on line program, the use of Microsoft Office and Photo Shop. Yearbook requires responsibility toward the expectations of administrators, parents, and peers in the area of journalism ethics, decisions as to coverage, and the care of expensive equipment.

Interactive Media I This course explores Web Design, Graphic Design, Hardware, and Software associated with the Interactive Media. Students will develop skills using such software as: Dreamweaver®, PhotoShop®, and Flash® in the PC and Macintosh platforms. Students will develop problem solving and critical thinking skills needed for today and tomorrow. Prerequisite: Computer Applications I

Interactive Media II This course explores Web Design, Graphic Design, Hardware, and Software associated with Interactive Media. Students will develop skills using software which may include: Final Cut Pro®, PhotoShop®, Adobe Quark®, and I-Movie® in the PC and Macintosh platforms. Students will develop problem solving and critical thinking skills needed for today and tomorrow. Prerequisite: Computer Applications I and Interactive Media I.

ENGLISH DEPARTMENT

English 9 Basic English skills including grammar, punctuation, and usage, are covered with emphasis on sentence structure and composition. Oral and written communication skills are stressed. English 9 encompasses the study of the short story, the novel, poetry, and drama. Students will read the novel *Fallen Angels* by Walter Dean Myers, and the play *Romeo and Juliet*

by William Shakespeare. In addition, the following may be read: *Tex* by S.E. Hinton, *Tears of a Tiger* by Sharon Draper, and/or *Shannaganey Blue* by June Langford Berkley.

English 9 (Weighted) This course entails all of which is covered in English 9 with additional expectations. Students will write more compositions and cover more material at a faster pace than English 9. Four novels will be covered in-depth; one novel will be a summer reading assignment. In addition to the novels in English 9, *To Kill a Mockingbird* and *Animal Farm* will also be read.

English 10 This is a course designed to reinforce and build upon the Basic English language skills. It includes grammar and vocabulary study, composition, with an emphasis on longer essay and theme writing, and a general study of world literature and interpretative skills. In English 10, some of the supplementary texts may include *The Hobbit*, *Fahrenheit 451*, *A Separate Peace*, and *Lord of the Flies*.

English 10 (Weighted) In addition to the basic curriculum for English 10 as described in the Program of Studies, Weighted English 10 will include the following:

- *reading a novel over the summer break followed by a test on the novel the first week of school
- *greater emphasis upon critical thinking and writing skills
- *learning to work independently on various assignments
- *more homework assignments

English 11 English 11 emphasizes the recognition and interpretation of these types of American literature: poetry, drama, essay, short story, novel, and biography. Students will learn to identify elements and themes common to all literature types. This course features the writing process and written and oral communication skills. A research paper is required.

English 11 (Weighted) In addition to the requirements of the general English 11, an in-depth study of four American novels with analytical compositions, and comprehensive tests will be expected. One novel will be read over the summer. Overall, this writing intensive course will focus on college preparation.

English 12 English 12 is a survey of British and world literature concentrating on the novel, short story, drama and poetic forms. Monthly projects include book reports and research activities with some oral presentations. Creative writing is emphasized.

English 12 (Weighted) (AP) AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller scale elements as the use of figurative language, imagery, symbolism, and tone. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. At the conclusion of this course students will be offered the opportunity to take the AP English Literature and Composition exam and earn college credit. There is a fee for this test that the student will incur.

OGT Reading/Writing Intervention This course is designed for juniors and seniors who have not passed the Reading and/or Writing portion of the Ohio Graduation Test (OGT). This class will count toward credits needed to graduate, but will not fulfill English requirements to graduate. This is a semester course worth a ½ credit.

Journey to College This course is a senior elective dedicated to developing resources, both financial and intellectual, to ensure success at college for our students. The 1st semester is dedicated primarily to ACT test preparation and completing college applications. In addition to certified staff, ACT on-line prep will be used. The guidance counselor and college advisor will assist students with college applications. The 2nd semester will focus on financial aid and applying for scholarships. Students will also gain knowledge in filling out job applications, constructing resumes and conducting mock job interviews.

FAMILY AND CONSUMER SCIENCE DEPARTMENT

Personal Skills This class helps students take responsibility for themselves and others. Communication skills, managing stress and forming healthy relationships are covered in this course. This is a semester class worth a ½ credit.

Independent Living This class will prepare students to take care of themselves and others. Skills to be taught include choosing and preparing nutritious meals, caring for clothing and basic sewing. Achieving goals, decision making and dealing with the consequences of our decisions will be emphasized. This is a semester class worth a ½ credit.

Independent Living II This course is for students who have completed Independent Living and Personal Skills. The topics covered in this class are very similar to those in Independent Living, but on a more advanced level. You will prepare more difficult nutritious meals, learn more about clothing selection and care, sew a garment, and learn how to be a better consumer. The goal of the class is to prepare students to take care of themselves and others. This is a semester class worth a ½ credit.

Foods & Nutrition I This course is designed for students who want to further their knowledge in food selection and preparation. The relationship between nutrition and wellness will be studied and students will learn to make healthy food choices. Prerequisite: This class is open to juniors and seniors and to sophomores who have completed Independent Living and Personal Skills. This is a semester class worth a ½ credit.

Foods & Nutrition II This class is designed for students who want to further their knowledge in food selection, planning, preparation and presentation. The relationship between food choices and nutrition, wellness and fitness will be studied. Students will have numerous cooking labs gaining experience in planning, preparing and presenting a variety of foods. This class will feature a study of the diversity of global and cultural foods and their preparation. Prerequisite: This class is open to juniors and seniors who have completed Foods & Nutrition I. This is a semester class worth a ½ credit.

Cooking Around the World This course is for students who are seniors who have completed Foods & Nutrition I and II. The student will study various countries around the world, learning about their culture, nutrition and food customs. Cooking labs of various foods will help the student gain more experience in food preparation, presentation, and customs of various places in the world. Prerequisite: The class is open to seniors who have taken Foods & Nutrition I and II. This is a semester class worth a ½ credit.

GRADS I, II, III, and IV Graduation-Reality and Dual Role Skills is an in-school program for pregnant and parenting adolescents with an emphasis on high school graduation and economic

independence. Curriculum includes maintaining a healthy pregnancy, developing parenting skills, balancing school, work and family, and setting goals for the future.

FOREIGN LANGUAGE DEPARTMENT

Spanish I An introduction to Spanish is offered in this class. Students work with textbooks, tapes, and a workbook that correlates both the laboratory and the text. The course consists of elementary listening, speaking and writing skills, as well as elementary grammar and translation. It also offers a brief cultural study, which includes geography, music, literature, and history of the Spanish-speaking countries.

Spanish II Spanish II is a continuation of Spanish I. This course completes the basic grammar of the language and introduces the student to more advanced translation, conversation, and composition. Emphasis is placed upon the cultural and historical background of Spain and Latin America.

Spanish III Spanish III is a review and continuation of the grammar studied in Spanish I and II. More emphasis is placed on oral reading and composition skills. Readings will provide information and insights into Hispanic culture. Students will participate in dialogues and discussions of readings in Spanish.

Spanish IV (Weighted) Spanish IV utilizes a text, tapes, and other reading materials. Students will master advanced grammar, and composition skills will continue to be emphasized. Readings will deal with Hispanic life with customs and contemporary Hispanic literature will be introduced. Students will listen to and produce audiotapes. Oral proficiency is stressed individually, in dialogues, and in-group situations. This class is open to seniors only.

***Note: Spanish 3 & 4 – In conjunction with Ohio University, these courses are now dual credit courses. Students with an end-of-the-year average of an A or B will receive 4 free credits in Spanish 211 at OUSC. No placement tests are required.*

German I The objectives of this course are to develop listening, speaking, reading, and writing skills in German. A basic German vocabulary is built by the use of cognates and related words in English. Pronunciation is taught with songs, poems, proverbs, and tongue twisters. Grammar is introduced as needed for comprehension and communication in the language. Students are exposed to magazines, newspapers, maps and films to learn about the customs and people of Germany.

German II Vocabulary building and more intensive study of grammar leads up to the reading of contemporary literature. Conversation in simulated everyday situations is stressed and deepens the cultural understanding. Creative projects within the frame of the German language and customs are encouraged.

German III German III is designed to review and continue grammar already learned. The reading of contemporary materials will provide the topics for conversation and composition. Reading, writing, and speaking skills are enhanced. German III students will be required to purchase a German/English dictionary.

German IV (Weighted) In German IV the student will have reached such a degree of proficiency that the discussion of German literature, films and current events can take place in the chosen

language. Composition will be practiced with emphasis on style as well as grammar. German IV students will need to have a German/English dictionary for class.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

Health This course includes a study of behavior, psychosis, mental illness, endocrine glands, first aid, drugs, alcohol, and tobacco. Liberal use is made of speakers, films, debates, and reports. One-half unit of credit in health is required for graduation. Health is taken during the freshman year.

Physical Education I, II The physical education program is organized to build a student socially, mentally, and physically. Physical education includes the following programs: fitness testing, touch football, soccer, floor hockey, tennis, basketball, volleyball, weight-training, badminton, track and field, softball and golf. One full unit of credit in physical education and health is required for graduation. All students in grade nine must take physical education. Health should be taken during the freshman year.

The only exception to the physical education requirement occurs when a student has a physical disability. In such a case, a doctor's statement must be submitted each year stating disability exists (1, 2, 3, and/or 4 years). The doctor's statement will excuse a student from physical education classes but not from the Health class. **NOTE: Physical Education I and II are required of all students.**

Advanced PE The physical education program is organized to build a student socially, mentally, and physically. Physical education includes the following programs: fitness testing, touch football, soccer, floor hockey, tennis, basketball, volleyball, weight-training, badminton, track and field, softball and golf. This is a semester course worth $\frac{1}{4}$ credit.

Physical Training Physical training involves extensive weight training with moderate amounts of running. This is a semester course worth a $\frac{1}{2}$ credit.

MATHEMATICS DEPARTMENT

Algebra I Basic algebraic skills including addition, subtraction, multiplication, and division of integers, equation solving, word problems, graphing of linear and quadratic equations, inequalities, statistics and simplifying polynomials.

Algebra I A This is a full year course. This course will concentrate on the material covered in the first half of Algebra I. This class will also help prepare students for topics that will be on the OGT.

Algebra I B This is a full year course. This course will concentrate on the material covered in the second half of Algebra I. The class will also help prepare students for topics that will be on the OGT.

Informal Geometry/Data Analysis This course covers basic geometry, graphing, statistics, and probability at a slower pace without formal proofs. Students will have plenty of opportunity to review and use algebraic concepts as they study geometry.

Plane Geometry This mathematics course deals with the study of points, lines, and planes. The course consists of proving theorems and applying these to real life problems. There is also some

construction of geometric figures. Algebra I is a prerequisite for this course. It is recommended that the student have a C average in Algebra I before taking Plane Geometry.

Algebra II This course will have a review of Algebra concepts. Some of the topics reviewed will include linear equations/inequalities. Other topics covered will be matrices, determinants, working with polynomials, radicals, quadratic functions, and polynomial functions. The last part of the course will have an introduction to conic sections, rational expressions, and rational equations.

Algebra II B Slower paced Algebra II class (see description above) with emphasis on real life application.

Advanced Algebra II (Weighted) This course will have a quick review of Algebra I topics. Topics reviewed will include linear equations/inequalities and systems of linear equations/inequalities. Other topics covered in this course will be matrices, determinants, working with polynomials, radicals, quadratic functions (using quadratic formula), complex numbers, polynomial functions, rational expressions, logarithms, statistics, and some basic trigonometry.

Pre-Calculus (Weighted) Pre-Calculus is a course designed to prepare college-bound students for a first course in calculus. The topics covered are a prerequisite for calculus. Intermediate algebra, analytic geometry, trigonometry, and statistics are integrated with other important topics in mathematics by an approach that stresses functions.

Calculus (Weighted) This course is designed for students planning on majoring in engineering, life sciences, economics and business, physical sciences and mathematics. Content includes functions, continuity of functions, limits, differentiation and integration of functions, trigonometric functions and logarithmic and exponential functions. Practical concepts are developed from graphical, numerical and algebraic perspectives to give students a full understanding of calculus. Prerequisite: Pre-Calculus.

OGT Math Intervention This course is designed for juniors and seniors who have not passed the math portion of the Ohio Graduation Test (OGT). This class will count toward credits needed for graduation, but will not fulfill the math requirements to graduate. This is a semester course worth a ½ credit.

Sequence of Math Courses

Eighth	Freshmen	Sophomore	Juniors	Seniors
	Algebra I A	Informal Geometry	Algebra I B	Algebra II or Algebra II B
	Algebra I	Geometry or Informal Geometry	Adv. Algebra II W or Algebra II	Pre-Calculus-W, Algebra II B or Algebra II W
Algebra I	Algebra I B	Geometry or Inf. Geometry	Adv. Algebra II W or Algebra II	Pre-Calculus-W or Algebra II B
Algebra I	Geometry	Algebra II or Algebra II-W	Pre-Calculus-W	Calculus-W

- Algebra II W students must have completed Geometry with a 75% or above average.

MUSIC DEPARTMENT

Marching/Concert Band Marching fundamentals and a wide variety of popular and traditional marching literature are taught during the fall semester. Students are required to attend after-school rehearsals and a three-week band camp in August. Marching drills are written for a particular band size and instrumentation, therefore anyone interested in joining after band camp is not guaranteed participation in marching drills. Concert instrumentation and literature are used during the spring semester. Musical selections range from modern popular to classical literature with both sacred and secular music being utilized. Students are required to attend all performances including, but not limited to, concerts, football games, parades, and contests. A \$40 band fee is required to defray operating costs and is due by the first day of August band camp. Permission of the director and possible auditions are required for admission.

Music Theory This class is taught during the 2nd semester with an emphasis on basic music structure, chord progressions, and chord structure. Basic elements of music and music notation are covered as well as modern and theoretical music developments. A basic understanding of music notation is encouraged, but not required for admission. This is a semester course worth a ½ credit.

Jazz Band This class is taught during the 1st semester. It will cover a variety of music including jazz, blues, R & B, and Big Band. Instrumentation is limited to modern standards of Jazz configurations. Students are required to attend all performances. Permission of the director and possible auditions are required for admission. This is a semester course worth a ½ credit.

Choir This course provides opportunities for students to develop their musical potential and aesthetic understanding through singing in a choral ensemble. Study includes the care and cultivation of a beautiful tone, aesthetic awareness, ability to read music, the building of technical skills, team spirit, and responsible rehearsal habits. Students will have opportunities to experience the spontaneity of improvisation and the creative process of composition. Students will strengthen listening skills and their ability to analyze and evaluate music and music performances. Attention will also be given to relating their music experiences to personal development. No prerequisite course is required.

Performance Choir “Singers” is Ironton High School’s performance choir. Students will learn to part-sing medium-to-difficult musical pieces, study music theory and appreciation, and prepare various programs for performance in school and in the community. Upper class status, plus an interview and audition, are required for admission to the class. Students are expected to attend all rehearsals and performances, some of which may occur outside of regular school hours and at various locations. One credit hour will be awarded for the successful completion of the course.

SCIENCE DEPARTMENT

Physical Science This is a full year, one-credit course with emphasis on physical science. The course consists of textbook work, demonstrations, and laboratory experience. It includes introductory material on the science of measurement and a review of fundamental mathematics. Areas of study are physics, chemistry, astronomy, meteorology, and geology. Specific topics include: measurement, force and sound, electricity, magnetism, heat, light, radioactivity, the atom, periodic table, compounds, molecules, ions, chemical reactions, organic compounds, the solar

system, time, the moon, the space program, the universe, atmosphere, winds, clouds, air masses, storms, weather forecasting, pollution climate, geologic time, rocks and minerals, volcanoes, earthquakes, mountain building, weathering erosion, oceanography, land and water pollution.

Physical Science (Weighted) This course will include all of which is covered in physical science with additional requirements. Students will be expected to write additional answers on tests, and apply fundamental (basic) information about physical science to more complex issues. One additional research assignment will also be applied to this class.

Biology Biology is a required, full year course, with an emphasis on life science. Areas of study include cell structure and function, photosynthesis, respiration, DNA and protein synthesis, cell division, reproduction and development, genetics and natural selection. Also, there will be an overview of the types of microorganisms, plants and animals. The course consists of discussion of textbook material, demonstrations, and limited laboratory experience. Assignments will include reading assignments, interpreting graphs, tables and charts, and written work in preparation for the OGT.

Biology (Weighted) This biology course will cover the same topics as the regular biology course, but material will be covered faster and in greater depth. Testing will involve more critical thinking skills by the use of essay questions. Students will also be expected to review science articles and write summaries of the articles.

Human Anatomy & Physiology This is an elective course in human anatomy and physiology open to juniors and seniors, who intend to pursue biological, medical, or health related programs at the college level. The course includes a study of the systems of the human body.

Prerequisite: Biology

Advanced Anatomy and Physiology II This elective course is a continuation of Human Anatomy & Physiology and is open to seniors only. It is intended for those who are interested in medical or other health-related careers. Using a systems approach to human anatomy, this in-depth course is taught at a fast-pace and is lab-intensive. Prerequisite: Human Anatomy & Physiology or recommendation from the instructor.

Chemistry I Chemistry is an experimental science that deals with the substances that make-up our environment and the various changes that take place in these substances. The course content provides a strong foundation for the college-bound students and those planning to enter the medical professions. This course is divided into a study of quantitative chemistry in the first semester and qualitative chemistry in the second. Prerequisite: Algebra I.

Chemistry II (Weighted) This course is a continuation of Chemistry I intended for students who plan to major in physical science, medicine or engineering at the college level. Topics covered are oxidation-reduction, organic and biochemistry. Experimental and laboratory work is a major component of this course. Prerequisite: Chemistry I.

Physics (Weighted) Physics is the study of physical laws by the liberal use of fundamental ideas about motion, light waves, electricity, electronics, and how they relate to everyday life. This course is highly recommended for students preparing to go to college or technical school in the fields of science, engineering, math, medicine, or education. Prerequisite: Algebra I and Plane Geometry

Earth Science Earth Science deals with the origin of the earth with respect to the rest of the universe. It also deals with the structure of the earth and the fluids above and within it. Emphasis is

placed on the changes occurring on the earth and the causes of these changes. It is open to juniors and seniors.

OGT Science Intervention This course is designed for juniors and seniors who have not passed the science portion of the Ohio Graduation Test (OGT). This class will count toward credits needed for graduation, but will not fulfill science requirements to graduate. This is a semester course worth a ½ credit.

SOCIAL STUDIES DEPARTMENT

Integrated Social Studies I (World History) A social studies class integrating the United States history into the worldview from 1750 to the present. The class will incorporate concepts from history, political science, economics, geography, ethnic and gender diversity, cultural diversity, and sociology.

Integrated Social Studies I (World History) Weighted A social studies integrating United States history into the worldview from 1750 to the present. The course will incorporate concepts from many social studies disciplines. Emphasis will be placed on demonstrating understanding through written expression. The course will also incorporate the study of appropriate works from literature and the fine arts.

Integrated Social Studies II (American History) This course covers U.S. History from 1877 to the present. This period may include a review of the Civil War, the Progressive Era, World Wars I and II, and the post war era leading up to the 1990's. Assignments will include reading assignments, map work, evaluation of primary sources, and written work in preparation for the Ohio Graduation Test. This class is offered at the sophomore level.

Integrated Social Studies II (American History) Weighted In addition to the requirements for Integrated Social Studies II, this class will focus on subjective testing and critical thinking skills. Students will be required to read novels, biographies and papers, and prepare presentations at the discretion of the teacher. When time permits, literature, art and primary sources will be integrated into the course. Overall, this course will focus on college preparation.

Integrated Social Studies III This course will integrate five areas of social studies: Economics, Psychology, Sociology, History, and Government. Emphasis will be on financial literacy, including the relationship of supply and demand on society and the market, the consequences of choices affecting budgets, savings, credit, philanthropy, and investments of both persons and governments, and the effect of interest on both borrowers and savers. This class will be offered at the eleventh grade level.

Integrated Social Studies III (Weighted) In addition to the requirements for Integrated Social Studies III, this class will focus on more subjective testing and critical thinking skills. Out of class assignments such as papers or extra reading will be at the discretion of the instructor.

American Government The basic structure and organization of the three branches of the American governmental systems at the national, state, and local levels are studied in this class. Particular emphasis is given to current social and political problems and events.

American Government (Weighted) (AP) AP US Government and Politics is a college-level course available to highly motivated seniors. The curriculum consists of an introductory study of US government that includes extensive reading assignments, knowledge and use of research tools, production of research projects, problem solving and evaluation of information sources. At the conclusion of the course students will be offered the opportunity to take the AP US government exam and earn college credit. There will be a test fee for the AP test that the student will incur.

World Geography The study of world geography is concerned with the earth and man's relationship to it. Emphasis is placed on covered material, map skills, writing skills and current events that relate to geographic areas. This is a full year course worth 1 credit.

OGT Social Studies Intervention This course is available to students who have not passed the social studies portion of the Ohio Graduation Test (OGT). This class will count towards credits needed for graduation, but will not fulfill social studies requirements to graduate. This is a semester course worth a ½ credit.

TECHNICAL, TRADE AND INDUSTRIAL EDUCATION DEPARTMENT

Tech Prep Teacher Academy Educational Foundations (Sophomore and Junior) Career paths for community related professions such as teaching, daycare providers, social work, psychology, counseling, and coaching. Courses will prepare students for entry level and professional career options within the area of study. Students will participate in field trips and classroom labs.

Tech Prep Teacher Academy Practical Experience (Junior) Students who have completed or enrolled in the Educational Foundations course must complete this course at the Junior and Senior level to complete the program. Students will participate in Field Experiences in early-childhood, elementary, and middle schools and complete activities that are related to a classroom teacher. Students will compile a professional portfolio, complete multi-media presentations, complete informational displays, and other opportunities related to a career in teaching.

Introduction to Engineering Students will learn problem-solving skills through the development of visual definition and recognition skills. Students will learn to sketch simple geometric shapes and, with the aid of state-of-the-art software, turn their sketches into 3-D solid models.

Principles of Engineering Students will do in-depth surveys to become aware of the skills and competencies required in the fields of engineering, architecture, and their related technical occupations.

Engineering Tech. Prep. I, Biotechnical Engineering Relevant projects from the diverse fields of bio-technology, bio-engineering, bio-medical engineering and bio-molecular engineering enable students to apply and concurrently develop secondary level knowledge and skills in biology, physics, technology and mathematics. Units include bio-medical design, bioprocesses (forensics), genetics, agricultural, and environmental engineering. This program gives students experience in the life science fields of engineering.

Engineering Tech Prep II, Engineering Design and Development: An engineering resource course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles learned in preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the course.

Civil Engineering and Architecture This course provides an overview of the fields of civil engineering and architecture while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software and equipment to develop a building project that covers: project planning, site planning, building design, and project documentation and presentation.

Introduction to Auto Mechanics Offered as an elective for one credit, this class is designed to provide an introduction to automobiles for automobile drivers, driver trainees, and for those who intend to go on to more specialized technical training. It is further directed to those whose goals are job selling, design, and production where a basic knowledge of automotive fundamentals is essential. Students will gain helpful information on how they can efficiently and safely use their vehicles and attend to maintenance when necessary. The course covers hand tools, engine, fuel, and ignition, electrical systems, complete chassis, drive line, preventative maintenance, and buying a new or used car.

Auto Mechanics I and II This course consists of the basic fundamentals and techniques of automobile maintenance and repair. The instruction is directed to acquaint the student with the parts of the automobile, care and use of tools and instruments, and interpretation of tables and charts, with provision for practical experience in analysis of engine failure. Students learn the procedures in purchasing replacement parts, the billing of services, and an appreciation of good business management in a modern automobile service organization. This class is open to juniors and seniors only and is considered a two-year vocational program.

BOARD POLICY 6170 CREDIT FOR TUTORING

Credit for tutoring, other than home instruction, shall be granted under the following conditions:

1. Prior approval for tutoring must be issued by the principal of the school if credit is to be granted.
2. The teacher shall be properly certified in the subject being tutored and shall be officially approved by the Board of Education for tutoring in the school system. The Board will maintain a list of available tutors in the various subject areas for student assistance.

3. One-half credit courses:

A student will meet with the tutor a minimum of twenty daily sessions of one hour each (twenty clock hours total) and be assigned a minimum of forty additional hours homework to make a total of sixty clock hours for each one-half unit of credit granted.

One-credit courses:

A student will meet with the tutor a minimum of forty daily

sessions of one hour each (forty clock hours total) and be assigned a minimum of eighty hours homework to make a total of 120 clock hours for each full credit granted.

4. A maximum of two units of tutored credit may be counted toward graduation.
5. The principal shall require the tutor to submit a notarized record of the work covered and a grade reporting the quality of work done. It shall also be necessary for each tutored student to pass a comprehensive exam formulated by the faculty department responsible for the subject area of instruction during the regular school term.
6. No regularly enrolled secondary student is permitted to be tutored for credit in any subject which, at that time, is being offered and taught at Ironton High School.

In addition, no student may be tutored for credit until after the final grade card indicating failure has been issued in the course. There will be one exception to this rule and is explained as follows: If a student has a complete schedule of classes during the daily scheduled periods up to the date of graduation, and still needs one or more required classes, he/she may be tutored.

7. Under no circumstances will a teacher be permitted to tutor a student for credit during regular school hours nor while the teacher is working on extended service (such as summer time work) employed by the Ironton City Board of Education.
8. The Administration of the Ironton City Schools reserves the right to deny credit for any course tutored which indicates a student's intent to avoid or to circumvent regularly available classroom course offerings.
9. The parent of a pupil under age eighteen must approve participation in a program covered in the Board Policy.
10. None of the required thirteen core subjects may be taken by tutoring or by correspondence unless the student has failed that subject during the regular school term.
11. An instructional plan must be submitted prior to pupil participation. The instructional plan must include: (a) instructional objectives; (b) an outline including major instructional activities, materials, and environments; and (c) a description of criteria and methods for assessing pupil performance.

**AFTER SCHOOL PROGRAM FOR
VOCATIONAL SCHOOL STUDENTS WITH DEFICIENCIES**

Regarding the after school make-up program for students with deficiencies, the following policy was adopted:

A total of sixty (60) hours will be required for all students who have failed a class and wish to make up the credit:

- Eighteen (18) two-hour sessions - 36
- Eighteen (18) hours of homework - 18 (one hour per session)
- Six (6) hours end of class project - 6.

**IRONTON CITY SCHOOLS
NONDISCRIMINATION POLICY**

The Ironton City Schools district affirms that no person shall, on the basis of sex, race, color, national origin, or handicap be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity conducted under its auspices.

This shall extend to employees therein and to admission thereto. Inquiries concerning the application of this policy may be referred to the superintendent or designated coordinator. This policy shall prevail in all board policies concerning school employees and students.

The Board designates:

William M. Dressel
Ironton City Schools
105 South Fifth Street
Ironton, Ohio 45638
(740) 532-4133

Complaints should be referred to:

Title VI (race, color, and national origin)
William M. Dressel
Ironton City Schools
105 South Fifth Street
Ironton, Ohio 45638
(740) 532-4133

Title XI (sex)
William M. Dressel
Ironton City Schools
105 South Fifth Street
Ironton, Ohio 45638
(740) 532-4133

Section 504 (handicap)
William M. Dressel
Ironton City Schools
105 South Fifth Street
Ironton, Ohio 45638
(740) 532-4133

SUGGESTED COLLEGE PREP CURRICULUM

Subject Area	Grades			
	<i>Ninth</i>	<i>Tenth</i>	<i>Eleventh</i>	<i>Twelfth</i>
English	English 9 or English 9 W	English 10 or English 10 W	English 11 or English 11 W	English 12 or English 12 W
Natural Science	Physical Science or Physical Science W	Biology or Biology W	Chemistry	Physics W or Chemistry II W
Mathematics	Algebra I or Geometry	Geometry or Adv. Algebra II W	Adv Algebra W or Pre-Calculus W	Pre-Calculus W or Calculus W
Social Studies	Integrated Social Studies I or Integrated Social Studies W	Integrated Social Studies II or Integrated Social Studies W	Integrated Social Studies III or Integrated Social III Studies W	American Government or American Government W
Foreign Language	Spanish I German I	Spanish II German II	Spanish III German III	Spanish IV W German IV W
Computer Education	Computer Applications I			
Health/PE	Health (1 semester) Phys. Ed. (1semester)	Phys. Ed (1semester)		
Electives	***** SEE PAGES 8 THROUGH 11 FOR ELECTIVES *****			

**SUGGESTED COLLEGE PREP CURRICULUM
WITH INTERACTIVE MEDIA SPECIALIZATION**

Subject Area	Grades			
	<i>Ninth</i>	<i>Tenth</i>	<i>Eleventh</i>	<i>Twelfth</i>
English	English 9 or English 9 W	English 10 or English 10 W	English 11 or English 11 W	English 12 or English 12 W
Science	Physical Science	Biology	Chemistry	Physics W or Chemistry II W
Mathematics	Algebra I or Geometry	Geometry or Algebra II	Adv Algebra W or Pre-Calculus W	Pre-Calculus W or Calculus W
Social Studies	Integrated Social Studies I	Integrated Social Studies I	Integrated Social Studies III	American Government American Government W
Foreign Languages	Spanish I German I	Spanish II German II	Spanish III German III	Spanish IV W German IV W
Computer Education	Computer Applications I	Multimedia Design / Advanced Computer Applications or School Publications Mass Media I	Interactive Media I or School Publications Mass Media II	Interactive Media II or School Publications Mass Media III
Health/PE	Health (1 semester) Phys. Ed (1 semester)	Phys. Ed (1 semester)		
Electives	***** SEE PAGES 8 THROUGH 11 FOR ELECTIVES *****			

SUGGESTED TECH/PREP CURRICULUM WITH EMPHASIS ON ENGINEERING

Subject Area	Grades			
	<i>Ninth</i>	<i>Tenth</i>	<i>Eleventh</i>	<i>Twelfth</i>
English	English 9	English 10	English 11	English 12
Natural Science	Physical Science	Biology	Chemistry	Physics W and/or Chemistry II W
Mathematics	Algebra I or Geometry	Geometry or Adv. Algebra II W	Adv. Algebra II W or Pre-Calculus W	Pre-Calculus W or Calculus W
Social Studies	Integrated Social Studies I	Integrated Social Studies II	Integrated Social Studies III	American Government or American Government W
Health/PE	Phys. Ed. (1 semester) Health (1 semester)	Phys. Ed II (1 semester)		
Technology Courses	Introduction to Engineering (1 period)	Principles of Engineering (1 period)	Engineering Tech Prep 1 (2 periods)	Engineering Tech Prep II (2 periods)
Electives	2 credits	2 ½ credits	2 credits	1 or 2 credits

***** SEE PAGES 8 THROUGH 11 FOR ELECTIVES *****

See page 30 for description of Tech/Prep Concept

SUGGESTED TECHNICAL/VOCATIONAL CURRICULUM (JR. & SR. YEARS)

Subject Area	Grades			
	<i>Ninth</i>	<i>Tenth</i>	<i>Eleventh</i>	<i>Twelfth</i>
English	English 9	English 10	English 11	English 12
Natural Science	Physical Science	Biology	Chemistry, Anatomy or Earth Science	Science
Mathematics	Math Elective	Math Elective	Math Elective	Math Elective
Social Studies	Integrated Social Studies I	Integrated Social Studies II	Government (CCC) Integrated Social Studies III (IHS)	Government (I H S)
Computer Technology	Computer Applications I			
Health/PE	Phys. Ed. (1 semester) Health (1 semester)	Phys. Ed. (1 semester)		
Technical Vocational			Specific Technical/ Vocational Program (ex. Auto Mechanics I)	Specific Technical/ Vocational Program (ex. Auto Mechanics II)
Electives	***** SEE PAGES 8 THROUGH 11 FOR ELECTIVES *****			

**TWO-YEAR TECHNICAL/VOCATIONAL PROGRAMS
AT IRONTON HIGH SCHOOL**

**Auto Mechanics **Interactive Media **Health Technology **Engineering Tech Prep

**TWO-YEAR TECHNICAL/VOCATIONAL PROGRAMS
AT COLLINS CAREER CENTER**

AgriScience
Auto Collision Technology
Auto Mechanics Technician
Building Maintenance
Business and Marketing
Carpentry
Cosmetology
Commercial Truck Equipment Technology
Early Childhood Education and Care
Electricity

Forensic Science
Food Technology and Processing
Heating and Air Conditioning
Health Academy
IT Mass Media Engineering
IT Networking
IT Programming
Welding

TECH PREP

Tech Prep is one of the newest options in education. As a Tech Prep student, during your Junior and Senior years, you will attend one-half of each day taking academic courses that will help you prepare for college. The remainder of each day, you will be participating in high-tech lab courses that simulate the real world of work. The technology courses are taught in state-of-the-art laboratories by experts in engineering technologies, business technologies, and health technologies.

The goal of Tech Prep is to help students prepare for further study in an associate degree program at a technical college or university. By the year 2000, 75 percent of all jobs required some level of education beyond high school, and the majority of these required technical training. Tech Prep gives you a chance to succeed in the advanced high-tech workplace of today and tomorrow.

Tech Prep

Information Technologies (Interactive Media)

- **2 periods**

Prepare for further study in an associate degree program to begin a career as an office management specialist, accounting specialist, financial management assistant, business applications programmer, microcomputer applications specialist, or a paralegal. Areas of study include package PC applications, accounting, office technology, personal finance, teamwork, professionalism, computer operations, business management, business law and legal office procedure.

Tech Prep

Health Technologies

- **3 periods**

Students develop multiple skills needed in today's health care industry. Coursework is completed in a health care environment utilizing equipment, which is typically used on a day-to-day basis in hospitals, long-term care facilities, clinics, physician's offices, etc. Areas of instruction include: 1) Medical Terminology; 2) Human Anatomy and Physiology; 3) Medical Ethics and Law; 4) Basic EKG; 5) CPR and First Aid; and 5) Phlebotomy.

Postsecondary education opportunities include technical or college degree programs in licensed practical nursing, registered nursing, respiratory care, and surgical technology.

Tech Prep

Engineering Technologies

- **2 periods**

Students considering pursuing a career in either the engineering or architectural fields must be aware of the fact that, at the college level, the curriculum is very demanding and requires a student to have a strong high school academic background. The recommended curriculum aligned with demanding college preparatory courses will insure that students who successfully complete this program will have the necessary educational qualifications to apply for admission to engineering or architectural programs at colleges throughout the United States.

Notes