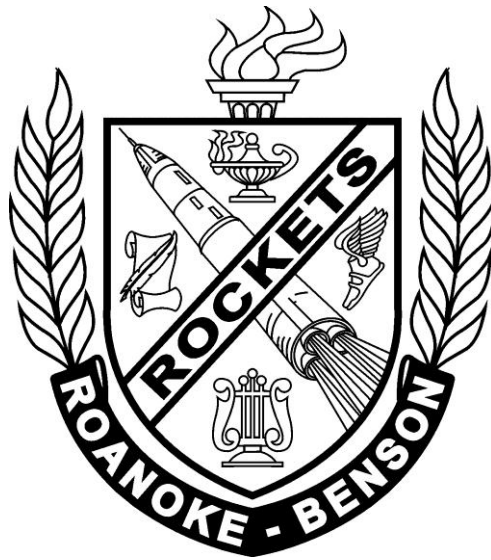
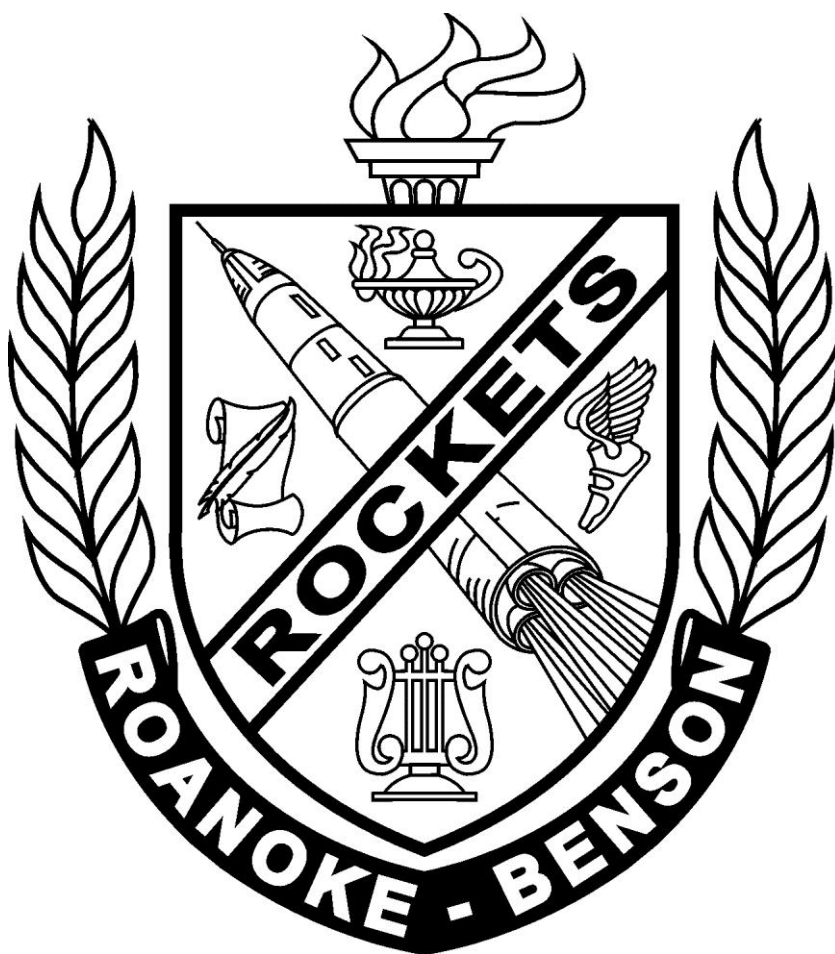


**Roanoke-Benson
High School
Home of the
Rockets**



**2012-2013
Academic
Program Guide**





Roanoke-Benson High School

We at Roanoke-Benson High School Believe our Primary mission is to teach for learning so that each student will be prepared to live, work, and adjust to life in a rapidly changing world. Our role in achieving this end is to provide a safe educational and physical environment that informs, stimulates, and promotes intellectual and psychological growth, as well as an accumulation of knowledge.





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Roanoke-Benson High School

Roanoke-Benson Unit District # 60

Mascot: Rockets

Colors: Black and White

History

Originally known as Roanoke Victory High School, Roanoke-Benson High School was built in three different phases spanning approximately 42 years. The original section of the high school was opened on August 28, 1920. The total cost of the building was \$112,000. Today, this portion of the building houses the departments of industrial arts, language arts, foreign languages, social studies, driver education, and special education. It also houses the offices of the high school guidance counselor, athletic director, and principal in addition to the library and a teacher workroom.

The east wing of the building was dedicated on March 30, 1954. The addition cost \$283,000. This section currently houses the departments of mathematics, science, home economics, and business education, including two multimedia computer labs which hold approximately 45 computers and high speed access to the internet. It also houses the gymnasium, weight room, and locker rooms.

The north wing of the building was completed in 1962. This section completed the building as it stands today. The north wing houses the music department, which includes both band and chorus, and the agriculture department, which also includes a large shop facility and an adjacent greenhouse.

Roanoke-Benson High School became known by its current name with the consolidation of Benson High School and Roanoke Victory High School prior to the 1956-57 school year. This building is not only a highly visible landmark, but also a centerpiece of community activity. In addition to the numerous school events that bring thousands of people to the community throughout the year, many civic and church groups use the facility as a meeting and recreational facility.

School Song

We're loyal to you R-B High
We'll always be true R-B High
We'll back you to stand gainst the best
in the land
Unto you we pledge our heart and our hand, Rah Rah
So here's to the black and white
With Courage and zeal for the fight
As we labor, learn and grow
We'll give all the best we know
To you R-B High
R-R-Roc, K-K-Ket, Roc-Ket,
Rockets, Rockets, Rockets!



Profile

Roanoke-Benson High School, located in Roanoke, Illinois, is 25 miles east of Peoria on Route 116 and 30 miles northwest of Bloomington-Normal. Roanoke-Benson High School serves the communities of Roanoke, Benson, and the surrounding rural area. As one of the premiere small high schools in the state of Illinois, Roanoke-Benson High School offers an outstanding college preparatory curriculum, including Advanced Placement courses. Students also have access to a wide variety of electives, including agriculture, business education, home economics, industrial technology, and instrumental and vocal music.

Graduation Requirements

Each student graduating from Roanoke-Benson High School must successfully complete 24 credits, 20 which must not be Physical Education. These 24 required credits must include the following:

- **Language Arts** (4 credits)
- **Mathematics** (3 credits)
- **Science** (2 credits)
- **Social Studies** (2 credits, including 1 credit in United States History and a ½ credit in Government)
- **All students must pass the US Constitution and the Illinois Constitution in order to graduate (covered in Government course)**
- **Foreign Language, Music, or Vocational Education** (1 credit)
- **Physical Education, Health, and Driver Education** (4 credits, including ½ credit in Health and ½ credit in Driver Education) Physical Education credits may be waived and replaced by other coursework if a student has a medical excuse signed by a physician. Physical Education requirements may be reduced for students meeting the exemption requirements of the Illinois School Code or for early graduation. However, 24 total credits still must be earned for graduation.
- **Consumer Economics** (½ credit) All seniors must earn ½ credit in Consumer Economics to meet requirements for graduation. Cooperative Vocational Education may be substituted for the Consumer Economics requirement.

Registration and Class Load

Class selection and registration is completed during the spring semester for the following year. All students are required to take 6 academic courses per year, not including Physical Education. No student may enroll in more than 6 academic courses without special permission from the principal or guidance counselor. Students not enrolled in 6 academic courses, not including Physical Education, are not considered full-time students and are not eligible for extra-curricular activities unless they receive special permission from the principal.



Schedule Changes and Class Withdrawal

Every effort is made to ensure that students are enrolled in the courses they select. However, enrollments or scheduling conflicts may result in some students not being enrolled in the courses they requested. Because of the effort put into resolving conflicts, it is expected that the student will keep the schedule for the entire semester. Therefore, any schedule change requires permission from either the guidance counselor or the principal.

A student may transfer sections or change courses during the first week of class. After the first week of a semester course, a student cannot add courses. A student may withdraw from a class through the first eight weeks of a semester provided the school has received written or verbal approval from the parents of the student. However, a course may not be dropped if the class load falls below the 6 academic credits required per year.

Credit Earned for Courses

Credit earned for courses will be $\frac{1}{2}$ credit per semester.

Grade Point Average and Class Rank

All courses will be evaluated through letter grades for each final semester grade. The final semester grades are converted to point values, which are then used to compute a semester grade point average based on a 12.000 scale. Class rank will be determined by the cumulative grade point average at the conclusion of each semester. PE is not computed in class rank.

Grade point values in some courses are weighted based on the difficulty of the course. The following courses are computed as weighted: **Spanish II, Spanish III, Spanish IV, Geometry, College Algebra and Trigonometry, Advanced Algebra, Pre-Calculus, Calculus, Chemistry, Chemistry II, Physics, Anatomy and Physiology I & II, Sociology, Advanced Placement Psychology, Astronomy, Expository Writing, Advanced Composition, British Literature, and World Literature.** Courses taken as independent study or outside the district are not figured as weighted, regardless of the nature of the course. Grades in regular and weighted courses are averaged according to the following point values:

Grade	Regular Course	Weighted Course
A	12	13
A-	11	12
B+	10	11
B	9	10
B-	8	9
C+	7	8
C	6	7
C-	5	6
D+	4	5
D	3	4
D-	2	3
F	1	2



Final Exam Information

Roanoke-Benson High School requires all students to complete final examinations at the end of each semester. The final exam schedule below will be utilized for all courses with the exception of Physical Education, and Driver Education (students will take the final exam for Driver Education at the conclusion of the ten-week course). The only exception is second semester seniors, who are exempt from final exams, unless a final exam is necessary to determine if a student will pass a course needed to fulfill graduation requirements.

- Final exams count as 20% of the final semester grade, which is used to compute cumulative grade point average and class rank.
- Students who miss a final exam without prior approval will receive a grade of zero on the exam.
- A tardy to an exam is an automatic detention, regardless of the number of tardies previously received. Ample time between exams is provided as a convenience to students. Students are welcome to relax and take advantage of this time, but are expected to be to class on time.
- Teachers will not issue hall passes during final exams.
- In the event that school is cancelled, testing will resume the following day school is in session.
- If students have study halls the first or last period of the test day (periods 1, 2, 7, or 8), they do not have to report to study hall. However, students who have a study hall in the middle of the day, (periods 3, 4, 5, or 6), or if they ride the bus to or from school, they must stay on campus and report to study hall.
- Students must either be off-campus or in the scheduled study hall. No loitering on or near campus will be allowed at any time.

Grading Scale

Roanoke-Benson High School utilizes the following grading scale for the purpose of grading daily assignments, projects, quizzes, and tests, in addition to computing grades for each semester:

Grade	Scale
A	100-95
A-	94-92
B+	91-89
B	88-86
B-	85-83
C+	82-80
C	79-77
C-	76-74
D+	73-71
D	70-68
D-	67-65
F	64-0



Community Service Program

Through the Community Service Program, students at Roanoke-Benson High School are encouraged and rewarded for serving their community on a voluntary basis. High school students who complete **100 hours of documented and approved community service** at any time throughout their first 3½ years of high school will receive one-half credit toward graduation and social studies credit requirements.

Documentation of all approved hours must be completed on the Community Service Credit Verification, which will be signed by both the student and the adult supervisor. On this form, the adult supervisor will provide a brief evaluation of the student's performance. The student must also provide a written account of how the activity positively impacted the individual, group, or organization, in addition to the student personally.

All verified community service hours must be on file in the office by the conclusion of the first semester of the student's senior year for academic credit to be awarded. Students have the responsibility of providing the appropriate documentation and must do so by the end of the semester the activity took place. Community service hours may not be used toward a request for early graduation. Under no circumstances may students receive pay or other compensation for hours considered as service to the community.

The 100 community service hours must be fulfilled at a minimum in the following two levels:

Level I **Students may earn up to 25 hours at this level.** Level I activities are those that are considered service during school hours or to family and friends. This includes student tutors, office helpers, teacher assistants, library helpers, and other activities under the supervision of school personnel during the school day. It also includes service to family and friends, such as babysitting, shoveling snow, raking leaves, and running errands. **Students must serve a minimum of five hours in any one Level I activity.**

Level II **Students must earn at least 75 hours at this level.** Level II activities are those that are more community, church, or civic in nature. Activities that may be counted as Level II may include, but are not limited to tutoring outside of school time, volunteering at hospitals or nursing homes, involvement with the Panther Creek Project, charity work, teaching Sunday School, involvement with civic organizations, and volunteering at school outside of the school day. **Students must serve a minimum of ten hours in any one Level II activity.**



Roanoke-Benson High School

Recommended Curriculum Sequence

Listed below is the recommended four-year sequence of courses in each curricular area. Students with a career interest in any of the areas should take as many of the corresponding courses as possible. Courses listed in **bold print** are those four-year colleges and universities count toward admission requirements (subject to change).

Agriculture

Grade Level	Course	Credit Earned
9	Introduction to Agriculture	1 credit
10 / 11 / 12	Small Engines and Welding	½ credit
10 / 11 / 12	Agricultural Science	½ credit
11 / 12	Agricultural Management	½ credit
11 / 12	Horticulture and Production Management	½ credit
11 / 12	Applied Electricity	½ credit
11 / 12	Supervised Agricultural Experience I	½ credit
12	Agricultural Mechanics	½ credit
12	Agricultural Economics	½ credit
12	Supervised Agricultural Experience II	½ credit
12	Cooperative Career Education (CCE)	2 credits

Business Education

Grade Level	Course	Credit Earned
9 / 10	Keyboarding	½ credit
9 / 10	Computer Applications	½ credit
10 / 11 / 12	Advanced Computer Applications	½ credit
10 / 11 / 12	Digital Photography and Webpage Design	½ credit
11 / 12	Webpage II Design	½ credit
10 / 11 / 12	Introduction to Business	½ credit
10 / 11 / 12	Desktop Publishing	½ credit
12	Accounting	1 credit
12	Consumer Economics	½ credit

Family and Consumer Science

Grade Level	Course	Credit Earned
9	Introduction to Family and Consumer Science	1 credit
10 / 11 / 12	Foods and Nutrition	½ credit
10 / 11 / 12	Living Environments	½ credit
10 / 11 / 12	Fashion Exploration	½ credit
11 / 12	Adult Living	½ credit
11 / 12	Parenting	½ credit
11 / 12	Child Development	½ credit



Fine Arts

Grade Level	Course	Credit Earned
9 / 10 / 11 / 12	Chorus	1 credit
9 / 10 / 11 / 12	Band	1 credit
9 / 10 / 11 / 12	Music Theory	½ credit

Foreign Languages

Grade Level	Course	Credit Earned
9 / 10 / 11 / 12	Spanish I	1 credit
10 / 11	Spanish II	1 credit
11 / 12	Spanish III	1 credit
12	Spanish IV	1 credit

Health/Physical Education/Driver Education

Grade Level	Course	Credit Earned
10	Health	½ credit
9 / 10 / 11 / 12	Physical Education	1 credit
9 / 10	Driver Education	½ credit

Industrial Technology

Grade Level	Course	Credit Earned
9	Introduction to Industrial Technology and Engineering (Industrial)	1 credit
10 / 11 / 12	Drafting Concepts	½ credit
10 / 11 / 12	Technical Drafting	½ credit
10 / 11 / 12	Production Technology	½ credit
11 / 12	Cabinetmaking and Millwork I	½ credit
11 / 12	Cabinetmaking and Millwork II	½ credit
11 / 12	Architectural Drafting	1 credit
11/12	CADD I	½ credit
11/12	CADD II	½ credit
12	Home and Building Maintenance	½ credit

Language Arts

Grade Level	Course	Credit Earned
9	Freshman English I	½ credit
9	Freshman English II	½ credit
10	Sophomore English	1 credit
11	American Literature	½ credit
11	Expository Writing	½ credit
11	Written Communication	½ credit
11 / 12	British Literature	½ credit
11 / 12	World Literature	½ credit
12	Advanced Composition	½ credit
12	English for Adult Life I	½ credit
12	English for Adult Life II	½ credit



Mathematics

Grade Level	Course	Credit Earned
9	Algebra C	1 credit
9	Algebra A	1 credit
10	Algebra B	1 credit
10 / 11	Geometry	1 credit
10 / 11	Plane Geometry	1 credit
10 / 11 / 12	Advanced Algebra	1 credit
12	College Algebra & Trigonometry	1 credit
11 / 12	Pre-Calculus	1 credit
12	Calculus	1 credit

Science

Grade Level	Course	Credit Earned
9	Laboratory Science	1 credit
10	Agricultural Science	½ credit
9 / 10	Biology	1 credit
10 / 11 / 12	Chemistry	1 credit
11/12	Chemistry II	1 credit
11 / 12	Astronomy	1 credit
11 / 12	Environmental Science	½ credit
10 / 11 / 12	Physiology I	½ credit
10 / 11 / 12	Physiology II	½ credit
11 / 12	Physics	1 credit

Social Studies

Grade Level	Course	Credit Earned
9/10	World Geography	½ credit
10	Global Issues and Government	½ credit
10/11/12	World History	1 credit
11	United States History	1 credit
10 / 11 / 12	Economics	½ credit
11/ 12	Sociology	½ credit
12	Advanced Placement (AP) Psychology	1 credit



Roanoke-Benson High School

Course Information and Descriptions

Agriculture

9th Grade Introduction to Agriculture State Course 18001A001 1 credit

Prerequisite: None

In this introductory course, students will have the opportunity to understand the importance of the agriculture industry and its economic impact on local, state, national, and international levels. Career opportunities in the field of agriculture are emphasized with regards to both production and agribusiness applications. Laboratory exercises and experiments will be utilized to reinforce and extend students understanding of basic science by associating scientific principles and concepts with relevant applications to agriculture. Students will also be introduced to the FFA organization and receive instruction relating to leadership concepts and skills. Students completing this course will earn one credit of science credit towards meeting their graduation requirements. **(This course is restricted to students who are Freshman or Sophomores. Juniors and Seniors can only register for this course with permission of the principal.)**

1. Mechanics and Shop Safety
2. Introduction to Computer Use in Agriculture
3. Business Records and Management
4. FFA and Leadership Skill Development
5. Scientific Investigation in Animal Science
6. Plant Growth and Reproduction
7. Agriculture and Environment

10th Grade Small Engines & Welding State Course 18401A001 ½ credit

Prerequisite: None

This orientation course will introduce students to additional basic agricultural mechanics skills and concepts useful in agribusiness careers. Units of instruction will include:

1. Small Engines Service and Repair
2. Introductory Welding Skills

10th Grade Agricultural Science State Course 18003A001 ½ credit

Prerequisite: Introduction to Agriculture or consent of the instructor

In this orientation course, students will further develop an understanding of the industry of agribusiness and will build upon basic skills learned in the introductory course. Units of instruction will include such areas as:

1. Mechanics
2. Crop Science and Soil Fertility
3. Soil Science and Conservation
4. Computer applications in Ag Management
5. Horticulture/Plant Propagations
6. Hydroponics
7. Aquaculture



10th Grade Supervised Agricultural Experience I State Course 18201A001 ½ credit

Prerequisite: None

This course is a supplement to instruction in agribusiness courses for ninth and tenth grade students. To receive credit, students must enroll in approved agribusiness orientation courses. Students will have a minimum of one approved project and will be involved with preparing and conducting supervised study, project record book work, and other project oriented activities.

11th Grade Agricultural Management State Course 18201A001 ½ credit

Prerequisite: None

This course will offer advanced training involving the management of the agribusiness. Units of instruction will include such topics as:

1. Business planning, organization and operation
2. Business sales and salesmanship
3. Computer use in business records
4. Business finance and credit
5. Government regulations in business

11th-12th Grade Horticulture Production and Management State Course 18051A001 ½ credit

Prerequisite: Agricultural Science or consent of the instructor

SPRING ONLY

This advanced course will focus instruction on greenhouse management and greenhouse crop production. It will build upon the basic knowledge and skills learned in the Agriculture Science course. Units of instruction will include greenhouse structures, controlling greenhouse environment, growing media and fertility, plant physiology and identification, plant propagation, and principles of landscape and floral design. Students will germinate, propagate, transplant, and care for commercial crops in the greenhouse and will conduct the annual FFA bedding plant sale in the spring. Opportunities to develop leadership skills and individual instruction through FFA and SAE activities will also be provided.

11th-12th Grade Applied Electricity State Course 18402A001 ½ credit

Prerequisite: None

This skill level course will concentrate on instructional units relative to the services and maintenance of agribusiness equipment and facilities. Units of instruction will involve the following topics:

1. Fundamental electrical theory, concepts and terminology
2. Electrical Wiring Procedures
3. Applications of Electrical Controls
4. Service and Repair of Electric Motors

12th Grade Agricultural Mechanics State Course 18402A001 ½ credit

Prerequisite: None

This course will offer advanced instruction in the service and maintenance of agribusiness equipment and facilities. Some units of instruction will include topics such as:

1. Hydraulics
2. Service and Maintenance of Multi-cylinder Engines
3. Advanced arc, gas, MIG welding
4. Concrete/Masonry
5. Surveying
6. Basic Plumbing



12th Grade Supervised Agricultural Experience State Course 18201A001 ½ credit
Prerequisite: Supervised Agricultural Experience I
Prerequisite: None

This experience program is for eleventh and twelfth grade students enrolled in agribusiness courses. Experiences will be similar to Supervised Agricultural Experience I except that activities are conducted at a more advanced level of skill training. Student projects will be expanded in scope and quality as they progress through the agribusiness program.

12th Grade Cooperative Career Education (CCE) State Course 22153A001 2 credits
Minimum of 15 hours on the job per week in addition to the CCE classroom portion.

Prerequisites: completion of two courses in the vocational sequence in which the student plans to work and enrollment in a third course is desired and recommended in conjunction with this course the senior year.

This course is designed for seniors as a capstone course to complete a student's vocational education at Roanoke-Benson High School. The course is a team effort involving key individuals in the school and community to aid and assist students in their career awareness, exploration, preparation and adjustment. It will provide vocationally oriented classroom instruction and progressive on-the-job learning experiences which are consistent with the student's occupational and career objectives.

This course requires a minimum of 15 hours per week of on-the-job training in one of the five following vocational areas of interest:

1. Agriculture Education
2. Personal and Public Services Occupations
3. Business and Office Occupations
4. Health and Related Occupations
5. Trade and Industrial Occupations

Classroom instruction will include such areas as career and educational planning, personal behavior and attitudes, applying for a job, getting along on the job, work attitudes, labor laws, taxation, insurance, becoming a leader, credit, budgeting, and comparison of prices related to becoming a provider in a family situation.



Business Education

9th-10th Grade Keyboarding (Fall only) State Course 12005A001 ½ credit

Prerequisite: None

Keyboarding is a course designed to develop basic skills in touch keyboarding techniques for entering alphabetic, numeric, and symbol information found on computers and terminals. Students will learn to edit and format text and paragraphs, change fonts, work with headers and footers, cut and paste text and work with multiple windows. Students will format documents such as letters, envelopes, memorandums, reports, and tables for personal, educational, and business uses. During the second half of the course, major emphasis is placed on formatting documents, improving proofreading skills, and increasing speed and accuracy.

9th-10th Grade Computer Applications (Spring only) State Course 10004A001 ½ credit

Prerequisite: Keyboarding

Computer Applications is an orientation-level course designed to develop awareness and understanding of application software and equipment used by employees to perform tasks in business, marketing and management. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications, such as word processing, spreadsheets, database management, presentation software, and desktop publishing. Students will explore topics related to computer concepts, operating systems, telecommunications and emerging technologies. The development of employability skills, as well as transition skills, will be included in the course as well as an understanding of the ethical considerations that arise in using information processing equipment and gaining access to available databases.

10th-12th Grade Advanced Computer Applications State Course 10005A001 ½ credit

Prerequisite: Computer Applications with a B- or above or consent of the instructor.

Advanced Computer Applications is a skill-level course that includes the concepts and terminology related to the people, equipment, and procedures of information processing as well as skill development in the use of information processing equipment. Students will operate computer equipment to prepare memos, letters, reports, and forms. Students will create, input, and update databases and spreadsheets. Students will create data directories; copy, rename, move, and delete files, and perform backup procedures. In addition, students will prepare files to merge, as well as create mailing labels and envelopes from merge files. Students will learn to locate and retrieve information from electronic sources to create presentations using presentation software. Students will apply proper grammar, punctuation, spelling and proofreading practices. Accuracy will be emphasized. Workplace skills as well as communication skills (thinking, listening, composing, revising, editing, and speaking) will be taught and integrated throughout this course.



10th-12th Grade Digital Photography & Webpage Design State Course 10005A002 ½ credit
Prerequisite: Keyboarding and Computer Applications

Digital Photography and Webpage Design is a skill-level course designed to prepare students to plan, design, and create photographs, print publications and web pages. Students will work in a project-based environment to create their media. In the first half of the semester, students will learn to use all of the features of a personal digital camera such as ISO, aperture, shutter speed, flash, focus, and white balance. Students will also learn how to compose a picture in regards to angle, lighting, arrangement, action, and depth of field. Students will use Adobe Photoshop to correct and manipulate photos and will use Adobe InDesign and their photographs to design publications for print. In the second half of the course, students will learn to create web pages using an open source content management system powered by PHP and MySQL. The students will learn about website architecture, how to set-up their website, and how to customize and maintain their website by installing plug-ins and templates, adding hyperlinks and media, creating forms, and integrating images.

11th-12th Grade Webpage II Design State Course 10201A002 ½ credit
Prerequisite: Keyboarding, Computer Applications and Digital Photography & Webpage Design with a B- or consent of instructor

Webpage II is a skill-level course for students who have completed Digital Photography and Webpage Design. Instruction will include using multimedia authoring applications and programming tools to create a web site that combines text, hyperlinks, images, video, and sound. Instruction will include using hardware and software to capture, edit, create, and compress audio and video clips as well as create animated text, graphics, and images. Students will learn how to use templates, cascading style sheets, and interactive elements to enhance web pages. Students are encouraged to develop a portfolio project that demonstrates their expertise in areas such as multimedia authoring, web development, audio and video editing, and advanced interactive web pages.

10th-12th Grade Introduction to Business State Course 12001A001 ½ credit
Prerequisite: Keyboarding/Computer Technology

This orientation-level course will provide an overview of all aspects of business marketing and management, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership, including entrepreneurship, as well as the basic functional areas of business (finance, management, marketing, administration and production). Students will be introduced to a wide range of careers in fields such as accounting, financial services, information technology, marketing and management. Emphasis will be placed on using the computer while studying applications in these careers along with communication skills (thinking, listening, composing, revising, editing, and speaking), math and problem solving. Business ethics as well as other workplace skills will be taught and integrated within this course.

11th-12th Grade Desktop Publishing (Spring Only) State Course 10005A002 ½ credit
Prerequisite: Computer Technology, Keyboarding, and Digital Photography

Desktop Publishing is a skill-level course. Students will create and update documents using desktop publishing programs. Topics covered include the elements of design, basics of page layout; importation of clipart, photos, and text within a predefined page layout; photo alteration of scanned and imported images; and printing and presentation of the finished product. Students will use desktop publishing computer programs to create graphic layouts that will be used to produce and publish the school yearbook. In addition, students will apply proper grammar, punctuation, spelling and proofreading practices to documents. Accuracy will be emphasized. Workplace skills as well as communication skills will be taught and integrated throughout this course.



12th Grade Accounting State Course 12104A001 1 credit

Prerequisite: None

Accounting is a skill level course that is of value to all students pursuing a strong background in business, marketing, and management. This course includes planned learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying and maintaining numerical data involved in financial and product control records including the paying and receiving of money. Instruction includes information on keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision making. Accounting computer applications should be integrated throughout the course where applicable. The operation of related business machines and career opportunities in the accounting field will also be covered.

12th Grade Consumer Economics State Course 22210A000 ½ credit

Prerequisite: None

This is a required course for all seniors not participating in the Cooperative Career Education (CCE) work program. Units of study include: consumer rights and responsibilities, economic systems, advertising, the business cycle, taxes, career planning, budgeting, saving and investing, checking account, reconciliation, credit, and insurance.



Family and Consumer Science

9th Grade Introduction to Family and Consumer Science State Course 22201A001 1 credit
Prerequisite: None

This course is designed to prepare students for current and future family roles and responsibilities. Practical skills and knowledge are taught which stress wise consumerism and use of the decision making process. This two-semester course is the suggested first course in the sequence and is the basis for all family and consumer science courses. The first semester includes study in foods and nutrition. The second semester includes units on interpersonal and family relationships, housing and interior design, clothing and textiles, and child care.

10th-12th Grade Foods and Nutrition State Course 16054A001 ½ credit
Prerequisite: None

This course includes classroom and laboratory experiences needed to develop knowledge and understanding of food principles and nutrition through the life cycle. Emphasis will be placed on preparation principles and techniques, food selection, consumer decision making, food safety and sanitation, etiquette, international customs and cuisines, low fat and low cholesterol cooking, microwave cooking, and candy making.

10th-12th Grade Living Environments State Course 22211A001 ½ credit
Prerequisite: None

Emphasis in this course will be placed on learning experiences designed to provide students with a basic understanding of housing and home furnishings. Many of the class projects will center around organizing living spaces to meet the needs of the occupants. Units of study include: selection and care of a home, renting housing, costs of home ownership, furnishing a home, elements and principles of design, and careers related to housing. Students will draw floor plans using both computer software and by hand. The final project utilizes everything learned in the course to design plans for an entire house without budget constraints.

10th-12th Grade Fashion Exploration State Course 19201A001 ½ credit
Prerequisite: FACS or Approval of Instructor

This course provides knowledge and understanding of textiles, fashions, and fabrics to meet the clothing needs of individuals and families. Course content includes: influences on clothing such as customs and culture, clothing as a means of self expression, the history of fashion, well known fashion designers, understanding design, textiles, clothing construction and the use of a sewing machine, care of clothing, and careers related to the fashion industry. The course will include several projects using a variety of media and at least one sewing project.

11th-12th Grade Adult Living State Course 22207A001 ½ credit
Prerequisite: None

This course is designed to help individuals and families prepare for their roles and responsibilities in today's society. Basic areas of study include: human relationships, communication skills, choosing values and goals, decision making, dealing with conflict, marriage, parenthood, career selection, and money management. Projects include drug education brochures, a marriage planning project, and a budget project for the student's first year on their own.

11th-12th Grade Parenting State Course 22204A001 ½ credit
Prerequisite: None

Basic information regarding the parenting of children of all ages is presented in this course. The role of the parent is fully explored, including the responsibilities, readiness and concerns involved in the parent-child relationship at each stage of development. Much of the course will be spent on contemporary issues such as teen pregnancy, child abuse, divorce, single parenting, coping with losses, discipline and choosing child care. Experiences interacting and planning activities for preschool and elementary children will take place throughout the semester. Students are also required to complete the "Baby Think It Over" simulation for two consecutive days of the student's choice.



11th-12th Grade Child Development State Course 19052A001

½ credit

Prerequisite: None

This one semester course includes basic information concerning the physical, emotional, social and intellectual development of children. Course content includes pre-natal development, genetics, birth defects, nutrition, health and safety concerns and human relation skills. A portion of the course will be spent on the practical application of knowledge gained by having a nursery school. Observations are made on children of all ages throughout the semester. Careers related to childcare and development are also explored.



Fine Arts

9th-12th Grade Band State Course 05101A000 1 credit

Prerequisite: None

Band is offered to students with previous instrumental experience. Band meets daily for rehearsals. Members of the band participate in the Marching Band, Concert Band, and Pep Band. Band members may elect to participate in solo/ensemble contest.

The band performs in parades, concerts, and contests. In the past, the band has performed at Washington D.C., Walt Disney World, Universal Studios, Six Flags Amusement Park, the Gator Bowl, the Chicago Christmas Parade, and the Chicago Columbus Day Parade.

9th-12th Grade Chorus State Course 05110A000 1 credit

Prerequisite: None

The high school chorus exists to provide students with the opportunity for aesthetic experiences that are available through the study and performance of quality choral literature. Choral music selected for study and performance represents a wide range of musical styles, periods, and cultures, including popular, folk, and art music of both sacred and secular character. The rehearsal and study of the music as well as its eventual public performance are at one and the same time both process and product and therefore equally valuable.

The chorus is by its very nature a performance ensemble. As such, the chorus gives performances and concerts at various times throughout the school year, including (but not limited to) concerts in the fall, winter, and spring, the Veteran's Day Assembly, the IHSA organizational contest, and graduation.

Membership in the mixed chorus is open to every Roanoke-Benson High School student. The chorus meets daily for one period during each semester. The chorus members variously comprise the mixed chorus, the bass chorus, and the treble chorus.

9th-12th Grade Music Theory State Course 05113A000 ½ credit

Prerequisite: None

This course is an in-depth study of the structure of music as it relates to musical notation, melody, harmony, rhythm, meter, and texture. Students must be prepared to study all major/minor scales and modes including all key signatures. In addition, students will apply themselves to analysis of musical scores identifying harmonic intervals, chord structure, chord inversions and chord progressions. Basic chord progressions and voice leading will be played by the students on the piano and students will learn sight-singing, dictation and other ear training skills. Students will apply their knowledge by writing a musical score for a small ensemble of instruments.



Foreign Languages

9th-12th Grade Spanish I State Course 06101A000 1 credit

Prerequisite: None

This introductory Spanish course will emphasize vocabulary and grammar development in each of these communication areas: listening, comprehension, reading, speaking, and writing. Attention will be given to learning about and appreciating various Hispanic cultures.

10th-12th Grade Spanish II State Course 06102A000 1 credit

Prerequisite: Spanish I

This intermediate Spanish course is designed to give students further experience with listening comprehension, reading, speaking, and writing. More emphasis will be given to refining pronunciation as students will be held responsible for speaking Spanish more in the daily classroom. Hispanic cultures and histories will be explored.

11th-12th Grade Spanish III State Course 06103A000 1 credit

Prerequisite: Spanish II

This advanced course will strive for proficiency in all Spanish communication skills: listening, reading, speaking, and writing. Satisfactory performance in Spanish II is a prerequisite. Students will be expected to communicate primarily in Spanish during class. Students will study advanced grammatical structures and apply them in both oral and written applications. We will continue to explore and appreciate Hispanic cultures.

12th Grade Spanish IV State Course 06104A000 1 credit

Prerequisite: Spanish III

This is an advanced Spanish course. Satisfactory performance in Spanish III is a prerequisite. All previously learned grammatical concepts will be reviewed. Students will strive for mastery of these concepts, both in conversation and in writing. More attention will be given to translating and interpreting all types of Spanish literature. Students will also be given the responsibility to write lesson plans and teach basic Spanish to elementary students once a month. Daily in-depth Spanish conversation is expected.



Health/Physical Education/Driver Education

10th Grade Health State Course 08051A000 ½ credit

Prerequisite: None

This course is required for all 10th grade students. Health consists of a variety of learning activities, which include study in the areas of personal health, prevention and control of disease (including AIDS), public and environmental health, human growth and development, consumer health, and first aid. A holistic approach to wellness in physical, mental, and social health is stressed. Health is a required course for graduation and must be taken in the sophomore year.

9th-12th Grade Physical Education State Course 08001A000 1 credit

Prerequisite: None

Physical education is required of all 9th through 12th grade students except when they are taking a semester of health or driver education. Physical education is co-educational whenever possible. The course will meet the following objectives:

1. To develop and have an understanding of personal fitness level
2. To improve and/or maintain the various physical fitness components
3. To understand the importance of good health and being physically fit
4. To develop individual and team skills in a variety of activities
5. To develop motor skills and fitness activities for future carry over into adult life
6. To develop sportsmanship, teamwork and socialization skills

9th/10th Grade Driver Education State Course 08152A000 ½ credit

Prerequisite: None

The driver education course consists of two parts. The classroom phase is offered to all students that qualify within the age requirement. Students must also meet all state attendance and credit requirements. After finishing the *Rules of the Road* booklet, students will be permitted to be tested for their instruction permits. These permits entitle the student to drive with the Driver Education Instructor, parent, guardian, or any responsible adult who has had a valid driver's license for one year. In the classroom phase, emphasis is placed on the safety habits of the driver, laws of nature and man, and the psychological and physical fitness of the driver.

The behind-the-wheel phase of driver education consists of six actual clock hours of driving and six hours of observation under the supervision of the driver education instructor. Students must complete 50 documented hours of practice under the supervision of a parent or responsible adult age 21 or older. The practice of developing and using sound fundamentals in driving is stressed. These fundamentals include pre-driving habits, use of signals, use of lanes, steering procedures, braking procedures, city and rural driving, and other basic maneuvers used in driving. Each student is advanced according to his or her skill and ability.



Industrial Technology

9th Grade Industrial Technology and Engineering (Industrial) State Course 21052A002 1 credit

Prerequisites: None

Introduction to Technology and Engineering (Industrial) is comprised of the following areas: Production, Transportation, Communication, Energy Utilization and Engineering & Design. This course will cover the resources, technical processes, industrial applications, technological impact and the occupations encompassed by that system.

10th / 11th / 12th Grade Drafting Concepts (Fall Only) State Course 21102A001 ½ credit

Prerequisites: None

This course is designed as a primer for the other drafting classes. The course content will include board, tool and equipment nomenclature, use, care, and maintenance. A variety of layouts, processes, and drawing types will be covered, including geometric description, multi-view, detail, sectionals, working, plan and pictorials. Dimensions will be emphasized. CADD will be introduced.

10th / 11th / 12th Grade Technical Drafting (Spring only) State Course 21102A001 ½ credit

Prerequisites: None

This course is designed as a follow up for Drafting Concepts, but may be taken separately. The course content will expand upon board drawings and CAD drawings. A variety of layouts, processes, and drawing types will be covered, including working, assembly, surface developments, architectural, and plan drawings. Fastener design, blueprint reading and symbol identification will be covered. Introduction to CADD commands, file creation and retrieval will be included.

10th / 11th Grade Production Technology (Spring Only) State Course 13052A001 ½ credit

Prerequisites: Passing grade in Industrial Technology

This course is designed to foster an awareness and understanding of production technologies. Experiences include product design, research and development, materials and processes, tools and equipment, safety instruction, production planning, mass production, and marketing. A variety of materials will be introduced.

11th / 12th Grade Cabinetmaking and Millwork I (Fall Only) State Course 17007A001 ½ credit

Prerequisites: Introduction to Technology and Engineering

This course introduces students to the basic design and fabrication of residential cabinetry and custom furniture. The course also exposes students to the millwork and millwright industry. Instruction includes safety practices in using hand tools and power equipment.

11th / 12th Grade Cabinetmaking and Millwork II (Fall Only) State Course 17007A002 ½ credit

Prerequisites: Introduction to Technology and Engineering

This course provides learning experiences related to the erection, installation and maintenance of commercial and residential cabinetry, and the repair and maintenance of stationary equipment and machinery. Planned learning activities are enhanced from information and skills learned in Cabinetmaking and Millwork I. This course provides the student with the knowledge and skills necessary to perform basic cabinetry construction and how it relates to the manufacturing process.



11th / 12th Grade Architectural Drafting State Course 21103A001 1 credit

Prerequisites: Previous Drafting Course

This course is designed to provide students interested in a career in Architecture with information and experiences needed for the development of job related competencies. Students are made aware of career opportunities. Instruction is offered in the areas of planning and organizing activities, as well as researching information. Students shall prepare various drawings, including, but not limited to layout, plan, detail, section, landscape, elevations, and mechanical systems plans. If time allows, there will be an opportunity to build a model. **(Offered on alternating years with CADD, next offered 2013-2014)**

12th Grade Home and Building Maintenance (Spring Only) State Course 17009A001 ½ credit

Prerequisites: None

This course includes learning experiences and skills in maintaining building systems (plumbing, electrical and HVAC), repair and maintenance of machinery, painting and basic carpentry. Instruction and hands on activities shall include the use of tests equipment, hand power tools and basic carpentry skills. Student should gain general knowledge to make decisions when to repair or replace, when to do it yourself or call in a professional.

11th & 12th Grade CADD I (Fall Only) State Course 21106A001 ½ credit

Prerequisites: None

This course is designed to enhance the student's knowledge and experience in design and engineering in the areas of drafting, as well as to encourage those with limited drafting experience to participate in computer generated images/drawings. Emphasis is stressed on proper technique, following standardized procedures, gaining knowledge of storage, retrieval and production systems, and completion of assigned tasks and problems. Studies will include learning commands and shortcuts to generate various drawings such as details, projections, sections, pictorials and working drawings. **(Offered on alternating years with Architectural Drafting, next offered 2012-2013)**

11th & 12th Grade CADD II (Spring Only) State Course 21106A002 ½ credit

Prerequisites: CADD I

This course is designed to enhance the student's knowledge and experience in design and engineering in the areas of drafting, as well as to encourage those with limited drafting experience to participate in computer generated images/drawings. Students will develop a variety of pictorial and working drawings as well as complete a section on solid modeling. Visual presentations for the class and a peer review are required. Students will be required to complete a set of exercises for Robotics/CNC machining. Students will engage in a series of problem solving unites focusing on teamwork and communication throughout the year. Thinking "outside the box" may be an asset. **(Offered on alternating years with Architectural Drafting, next offered 2012-2013)**



Language Arts

9th Grade Freshman English I (Fall only) State Course 01155A000 ½ credit

Prerequisite: None

Freshman English I is a semester-long required introductory level course designed to increase the reading comprehension skills necessary for future English course and provide students with an opportunity to develop their public speaking skills. The reading component of the course focuses on comprehension and reading strategies and will be composed of works of grade appropriate fiction or nonfiction and may include novels, essays, or plays. The public speaking element of the course concentrates on group and individual oral presentation methods and skills. Students are encouraged to develop their personal style of speaking during the process of researching, organizing, writing, rehearsing, and delivering informal and formal speeches.

9th Grade Freshman English II (Spring only) State Course 01001A000 ½ credit

Prerequisite: None

Freshman English is a semester-long, required, introductory course designed to review the basics of English grammar and to provide an opportunity to increase the reading comprehension skills necessary for future English courses. The grammar component of the course will concentrate mainly on the theory behind the functioning of the English language and will serve as a foundation for further grammar study.

10th Grade Sophomore English State Course 01002A000 1 credit

Prerequisite: None

Sophomore English is a year-long, required course focusing on both literature and writing skills. Students work intensively on reading comprehension and retention, basic grammar, and writing for a variety of audiences and purposes. Students will study literature in its various forms and investigate the structure and elements of short stories, novels, and dramas as well as explore different types of nonfiction. Students will increase their vocabularies and use them to strengthen written and oral communication. Also included will be a unit in writing to reinforce established concepts of grammar and to emphasize the structure and logic of essays.

11th Grade American Literature (Fall only) State Course 01054A000 ½ credit

Prerequisite: Sophomore English

This required semester-long course is a chronological survey of a variety of literary genres, both fiction and nonfiction. Study units include puritanism, rationalism, romanticism, naturalism, realism, modernism, and contemporary literature. Students will study two classic American novels to be read outside of class. The course will concentrate not only on the literature itself, but also on literary techniques and themes. A wide variety of American writers is presented.

11th Grade Written Communication (Spring only) State Course 01102A000 ½ credit

Prerequisite: Sophomore English

Written communication is a semester-long, non-weighted course designed to improve basic writing skills by focusing on practical applications of writing. Usage, mechanics, and sentence structure are stressed as well as the ability to clearly express ideas in writing. To meet graduation requirements, all students must complete either written communication or expository writing.

11th Grade Expository Writing (Spring only) State Course 01103A000 ½ credit

Prerequisite: Sophomore English

Expository writing is a weighted college preparatory course designed to help students write factual compositions in a clear, organized, and accurate manner using standard forms of rhetoric. The majority of the course is spent composing essays and studying related skills. Papers include description, process, classification, and synthesis. The semester culminates in the writing of a research paper drawn from secondary sources. To meet graduation requirements, all students must complete either expository writing or written communication.



11th-12th Grade World Literature State Course 01058A000 ½ credit
Prerequisite: American Literature

In this advanced elective course, students will read and study a wide assortment of world authors from a variety of time periods. Over the semester, students will also become familiar with writing characteristics from the different periods. The course will concentrate on literary themes and devices as they are compared and contrasted to those from varying cultures and eras.

11th-12th Grade British Literature State Course 01056A000 ½ credit
Prerequisite: American Literature

This semester-long elective is designed to help students understand various genres and eras of British literature. They will understand the relationship of English history to the literature, analyze the literature stylistically, and learn how language and literature have developed and changed. The class will read and discuss important literary works exemplary of the types, periods, and rhetorical devices.

12th Grade Advanced Composition (Fall only) State Course 01105A000 ½ credit
Prerequisite: Expository Writing

Advanced composition is a weighted, semester-long course designed for the college bound student as preparation for college writing experiences. The course emphasizes precision, originality, correctness, and style through the writing of more sophisticated essays, such as cause and effect, problem and solution, extended definition, refutation, comparison and contrast, and literary analysis.

12th Grade English for Adult Life I (Fall Only) State Course 01004A000 ½ credit
Prerequisite: None

English for Adult Life I is a semester-long, non-weighted course. The class concentrates on reading for comprehension, analysis, and critical thinking by focusing on past and present social issues found in non-fiction, film, and periodicals. The writing component of the class focuses on clarity and correctness. Grammar and mechanical skills will be reviewed as needed. Specific writing projects may relate to summarization, paraphrasing, and persuasive writing.

12th Grade English for Adult Life II (Spring Only) State Course 01052A000 ½ credit
Prerequisite: None

English for Adult Life II is a semester-long, non-weighted course. The class concentrates on reading for comprehension, analysis, and critical thinking by focusing on past and present social issues found in fiction, film, and periodicals. The writing component of the class focuses on clarity and correctness. Grammar and mechanical skills will be reviewed as needed. Specific writing projects may relate to supporting a claim, identifying themes in a work of fiction, and clearly expressing one's own viewpoint.



Mathematics

9th Grade Algebra C State Course 02052A000 1 credit

Prerequisite: None

This course is designed as a standard first year course in Algebra. The emphasis is a rigorous study of updated algebraic concepts and terminology. This course fulfills the college requirement for the first year of Algebra. Students taking this course should have demonstrated a prior ability in mathematics and abstract thinking.

9th Grade Algebra A State Course 02053A000 1 credit

Prerequisite: None

This is a freshman level course for students who have struggled with math in 7th and 8th grade. Topics to be covered are: order of operations, integers (add, subtract, multiply, and divide), statistics (mean, median, mode), basic probability problems, relationships and functions, graphing and writing linear equations, properties of exponents, polynomials (add, subtract, multiply, factor, and solve); solving systems of equations, and rational/irrational numbers (Pythagorean theorem).

10th Grade Algebra B State Course 02054A000 1 credit

Prerequisite: Algebra A

This is a sophomore level course. Topics to be covered are: order of operations, integers (add, subtract, multiply, and divide), statistics (mean, median, mode), basic probability problems, relations and functions, graphing and writing linear equations, properties of exponents, polynomials (add, subtract, multiply, factor, and solve), solving systems of equations, rational and irrational numbers (Pythagorean theorem and the distance formula, Quadratics equations (solve by factoring a quadratic formula), Irrational numbers (add, subtract multiply, divide and simplify), Rational expressions (add, subtract, multiply, divide, simplify, and solve). *This course can be considered as the second half of a typical high school Algebra I course.*

10th /11th Grade Plane Geometry State Course 02075A000 1 credit

Prerequisite: Algebra A and B or Algebra C

Geometry & Plane Geometry cover the same material and the required knowledge is the same. The students in Plane Geometry will mainly be tested over the knowledge and basic applications of Geometry. The students in Geometry will be pushed with more challenging proofs and applications than Plane Geometry will receive. Plane Geometry will meet all of the requirements for a college bound student. Any student taking 4 years of math at R-B will be well prepared for college level math.

10th/11th Grade Geometry State Course 02072A000 1 credit

Prerequisite: Algebra A and B or Algebra C

This course is a modern course of geometry. It is a rigorous study of deductive proof and geometric definitions. It is designed to fulfill the requirements for a college-required course in high school mathematics. Emphasis is placed on rigorous proof of geometric theorems and a study of the Euclidean Postulations System. All students enrolled in this course should have taken for credit and passed the course in Algebra.

10th-11th-12th Grade Advanced Algebra State Course 02056A000 1 credit

Prerequisite: Algebra A and B or Algebra C

Advanced Algebra builds upon the skills and understanding of Algebra. This course extends the students' understanding to higher levels such that conclusions are more valid and the thinking more rigorous. The concepts of functions and relationships are extended to include circular functions and functions of higher order.



12th Grade **College Algebra & Trigonometry** **State Course 02106A000** **1 credit**
Prerequisites: Algebra A&B or Algebra C, Geometry

This is a year-long senior-level course intended for college-bound students who want to be prepared for college mathematics. Topics will include linear equations and inequalities, matrices, polynomial & exponential functions, factoring, rational expressions, radicals, quadratic equations, logarithms, right triangle trigonometry, radians & circular functions, trigonometric identities, inverse circular functions, trigonometric equations, and vectors. **A TI-84 graphing calculator is required.**

11th and 12th Grade **Pre-Calculus** **State Course 02110A000** **1 credit**
Prerequisite: Algebra A and B or Algebra C, Geometry, and Advanced Algebra

Pre-Calculus is designed as a class to prepare college-bound students for the classes they will be taking as a freshman in college. This class will cover trigonometry, functions and graphs, conics, logarithms, sequences and series, probability, statistics, limits, derivatives and an introduction to calculus. Students are expected to purchase a graphing calculator (such as a T-82) for extensive use in this course.

12th Grade **Calculus** **State Course 02121A000** **1 credit**
Prerequisite: Pre-Calculus or approval of the Principal

Calculus is primarily concerned with developing the students' understanding of the concepts of calculus: functions, graphs and limits, derivatives and integrals, and slope fields and infinite series with its methods and applications. The course emphasizes a multi-representational approach to calculus with concepts, results, and problems being expressed geometrically, numerically, and verbally.



Response to Intervention

Response to Intervention is a process which includes the provision of systematic, research-based instruction and intervention to struggling learners. RTI is designed as an early intervention to prevent long-term academic failure. The components for RTI are required by the federal No Child Left Behind law. The following is the RTI plan for Roanoke-Benson High School:

MATH REFERRAL PROCESS:

EXPLORE/MAP/Standardized Testing/class grades & performance (benchmark of below 67%) and teacher recommendation will be used to determine eligibility. Students can be identified as soon as the 1st 4 weeks of the semester. Additional students can be identified throughout the semester as needs arise.

The intervention for Math is:

- Math Tutor Study Hall: This period will be dedicated to reviewing homework and concepts taught in the core curriculum as well as working on skill deficiencies.
- Students who complete at least 10 weeks of this tutor period will earn a ½ credit of elective credit.

Referrals should be made to the principal or guidance counselor who will make contact with core subject teachers. Teachers will offer input regarding the student's abilities and needs.

ENGLISH REFERRAL PROCESS:

EXPLORE/MAP/Standardized Testing/class grades & performance (benchmark of below 67%) and teacher recommendation will be used to determine eligibility.

The intervention for English/Reading is **CRITICAL READING**: Students who have more significant reading deficiencies will be identified and placed in the Critical Reading class where strategies will be implemented to improve basic reading skills. Students who complete at least 10 weeks of this class will earn 1/2 credit of elective credit.

The RTI team will meet monthly to discuss students' progress in RTI classes and discuss additional students' needs as they arise.



Science

9th Grade Laboratory Science State Course 03159A000 1 credit

Prerequisite: None

This course is a year-long earth and physical science course which includes, but not limited to, an introduction to metrics, chemistry, laboratory techniques, and biology. Through the study of these topics, the students will learn the application of the scientific method and inquiry-based problem solving strategies. The course is designed to provide freshman students the needed background prior to taking more advanced courses. Once a student has taken and passed biology, they are unable to enroll in this course.

9th-10th Grade Biology State Course 03051A000 1 credit

Prerequisite: None

This course is an introduction to the study of life. The students will understand and demonstrate their understanding of such topics as the scientific method, chemistry, cell biology, and genetics through laboratory exercises, chapter tests, fruit fly experiments, and multiple other forms of assessment. Within this course, students will develop an understanding of their world, how they influence it, and the science behind it. Freshman must be recommended to enroll in this course.

10th-12th Grade Agricultural Science State Course 18003A001 ½ credit

Prerequisite: Introduction to Agriculture or consent of the instructor

In this orientation course, students will further develop an understanding of the industry of agribusiness and will build upon basic skills learned in the introductory course. Units of instruction will include such areas as:

1. Mechanics
2. Crop Science and Soil Fertility
3. Soil Science and Conservation
4. Computer applications in Ag Management
5. Horticulture/Plant Propagations
6. Hydroponics
7. Aquaculture

10th and 11th Grade Chemistry State Course 03101A000 1 credit

Prerequisite: Concurrent enrollment in Advanced Algebra

Chemistry will explore the natural world through the study of the atom. Topics of study will include chemical reactions, names & formulas for compounds, atomic structure, the Periodic Table, gases, solutions, acids & bases, heat, equilibrium, and nuclear chemistry. This course will prepare students for an introductory college chemistry course in engineering, physical science majors, nursing careers, and other health-related fields.

11th and 12th Grade Chemistry II State Course 03102A000 1 credit

Prerequisite: Chemistry and Advanced Algebra

Chemistry II will expand upon and investigate more deeply topics from Chemistry, including chemical reactions, stoichiometry, atomic theory, gas laws, bonding, thermochemistry, acids and bases, kinetics & chemical equilibrium. New topics of study will include reduction-oxidation, enthalpy, molecular orbital theory, rate laws, buffers, free energy, electrochemistry, and organic chemistry. Students will also improve their chemistry lab skills by doing longer, more open-ended labs. This course is appropriate for any student interested in pursuing a college major in engineering, physical sciences, nursing or any health-related career

Chemistry II will be offered in alternating years with Physics, beginning in the Fall of 2013.



11th – 12th Grade Astronomy State Course 03004A000 1 credit
Prerequisite: Algebra and one additional science class. Previous or concurrent registration in Advanced Algebra, Chemistry, or Physics preferred.

This course will deal with the astronomy of the solar system, stars, and galaxies, concentrating on the physical and chemical processes of the Sun, Moon, planets, satellites, asteroids, meteors, comets, and focusing on the physical and chemical processes by which stars are born, evolve, and die, and the organization of stars into galaxies and clusters. It will include a review of the scientific instruments and measurement techniques that have been used over the centuries to learn about the heavens, and the impact of astronomy in ancient and modern day society.

11th-12th Grade Environmental Science State Course 03003A000 ½ credit
Prerequisite: None

This course studies the problems facing the global environment. After completing the course the student should have an understanding of the environmental problems facing the planet, the causes of these problems, and the outlook for solving the problems. The course studies topics in the area of population growth, energy use, and protecting our natural resources. We will also examine our environmental heritage and discuss the affect of ethics, economics, politics, laws, and environmental education has on the environment.

11th-12th Grade Physiology I State Course 03055A000 ½ credit
Prerequisite: Biology

This course is an introduction to the human body. All body systems will be studied. Relationships of anatomy and physiology are considered. This course must be successfully completed prior to enrolling in Physiology II. Laboratory and classroom work will be given to help the students understand the fundamentals of the human body. Meaningful work will be integrated into the classes to aid in giving the students a more thorough understanding of the material.

11th-12th Grade Physiology II State Course 03053A000 ½ credit
Prerequisite: Biology and Physiology I

This course is an academically challenging life science course. This course will include a review of Physiology I with the introduction of cat dissections in the laboratory. Laboratory work will be the primary basis of the course and supplemented with various other exercises.

11th and 12th Grade Physics State Course 03151A000 1 credit
Prerequisite: Advanced Algebra or consent of the instructor: Concurrent enrollment in Pre-Calculus is recommended

Physics will explore the natural world through the study of motion and waves. Topics of study will include kinematics, dynamics, Newton's Laws, linear, projectile & circular motion, gravity, energy, momentum, light, sound, and relativity. The course will prepare student students for an introductory college physics course in engineering or physical sciences.

Physics will be offered in alternating years with Chemistry II. Physics will be offered in the fall of even numbered years including the fall of 2012.



Social Studies

9th-10th Grade World Geography State Course 04001A000 ½ credit
Prerequisite: None

World Geography provides students with a new global perspective. The class begins with a comprehensive unit of physical geography– including a study of maps and globes, features and forces of the earth, climate zones, and culture regions. Each remaining unit covers a geographic region of the world allowing students to gain a further understanding of human geography. The five basic themes of geography are stressed throughout the course.

10th-12th Grade Global Issues and Government State Course 04151A000 ½ credit
Prerequisite: None

Global Issues and Government concerns the development and workings of American government. The United States and Illinois Constitution will be explored and a written assessment will be completed over each document. **Passing both constitution tests are a graduation requirement.** The course also focuses on foreign policy, components of other government systems, and investigates current issues facing our world. (Starting with the class of 2014, all students will be required to take Government to graduate. Students in the class of 2014 who have passed the constitution prior to the 2011-2012 school year are exempt from this requirement.)

10th-12th Grade World History State Course 04051A000 1 credit
Prerequisite: None

World History is designed to give a view of the important progress of civilization from early and classical civilizations to the present. You will gain insight into the powerful forces that have helped shape history in all periods. The power of ideas and how they have shaped the world today will also be examined.

11th Grade United States History State Course 04102A000 1 credit
Prerequisite: None

United States History will offer a look at America’s past from the early formation of the colonies through the present time. The course concentrates on: historical analysis and interpretation; government and political ideals; economic activities and actions; cultural diversity and behaviors; and the fundamentals of geography. All assessments will focus on the enduring understanding of these themes of analysis.

10th - 12th Grade Economics State Course 04201A000 ½ credit
Prerequisite: None

Economics is the study of man's struggle to satisfy his unlimited wants and needs within the scarcity of natural resources. Concern is directed towards the development of a democratic-capitalistic concept of economics which enables humans to produce, distribute, and consume the effort of labor.

11th - 12th Grade Sociology State Course 04258A000 ½ credit
Prerequisite: None

Sociology is the study of human society and the individual’s relationships to various social institutions. Students will gain understanding of the complexity of society and how human behavior is developed, directed, and regulated by culture. The discussion of social, cultural, individual and gender issues will be emphasized to gain further understanding of how humans behave in society.



12th Grade

Advanced Placement (AP) Psychology

State Course 04256A000

1 credit

Prerequisite: None

Advanced Placement Psychology introduces college-bound seniors to the discipline of psychology by emphasizing the history of psychology as a science, the different theoretical approaches that underlie explanations of behavior, and the contemporary research methods used by psychologists. The course takes an in-depth look at the following: methods, approaches, and history; biological bases of behavior; sensation and perception; states of consciousness; learning; cognition; motivation and emotion; developmental psychology; personality; testing and individual differences; abnormal psychology; treatment of psychological disorders; and social psychology. The course culminates with an optional Advanced Placement Examination, which, depending on the student's performance may result in the awarding of college credit. There is a fee for taking the exam.



Semester 1-FALL	Semester 2-SPRING
1. <i>Freshman English I</i>	<i>Freshman English II</i>
2. <i>Algebra A or C</i>	<i>Algebra A or C</i>
3. <i>PE/Dr. Ed</i>	<i>PE/Dr. Ed</i>
4. <i>Lab Science or Biology</i>	<i>Lab Science or Biology</i>
5.	
6.	
7.	
8.	

***NOTE: CERTAIN CLASSES ARE OFFERED ONLY FALL OR SPRING.
LIST THEM IN THE CORRECT SEMESTER BOX.**

There should be a class on each line. Full-year classes fill Semester 1 and Semester 2.
Make sure to write "Study Hall" on a line if you want one. (It doesn't matter what line.)

Alternative Electives (#1 being your first choice):

1. _____
2. _____

Sophomore Plan of Study

Semester 1-FALL	Semester 2-SPRING
1. <i>Sophomore English</i>	<i>Sophomore English</i>
2. <i>Biology/Chemistry</i>	<i>Biology/Chemistry</i>
3. <i>Health</i>	<i>PE</i>
4. <i>Advanced Algebra OR Algebra B</i>	<i>Advanced Algebra OR Algebra B</i>
5. <i>Global Issues and Government</i>	
6.	
7.	
8.	

***NOTE: CERTAIN CLASSES ARE OFFERED ONLY FALL OR SPRING.
LIST THEM IN THE CORRECT SEMESTER BOX.**

Note Government needs to be placed either in first or second semester

There should be a class on each line. Full-year classes fill Semester 1 and Semester 2.
Make sure to write "Study Hall" on a line if you want one. (It doesn't matter which line.)

Alternative Electives (#1 being your first choice):

1. _____
2. _____



Junior Plan of Study

Semester 1 FALL	Semester 2 SPRING
1. <i>American Literature</i>	<i>Expos. Writing OR Written Comm.</i>
2. <i>U.S. History</i>	<i>U.S. History</i>
3. <i>Geometry OR Plane Geometry</i>	<i>Geometry OR Plane Geometry</i>
4. <i>PE</i>	<i>PE</i>
5. <i>Chemistry OR Physics/Chem II</i>	<i>Chemistry OR Physics/Chem II</i>
6.	
7.	
8.	

***NOTE: CERTAIN CLASSES ARE OFFERED ONLY FALL OR SPRING.
LIST THEM IN THE CORRECT SEMESTER BOX.**

There should be a class on each line. Full-year classes fill Semester 1 and Semester 2.
Make sure to write "Study Hall" on a line if you want one. (It doesn't matter which line.)

Alternative Electives (#1 being your first choice):

1. _____
2. _____

Senior Plan of Study

Semester 1 FALL	Semester 2 SPRING
1. <i>Consumer Economics</i>	
2. <i>PE</i>	<i>PE</i>
3. <i>Advanced Comp OR Sr. English</i>	<i>Brit Lit/World Lit OR Sr. English</i>
4.	
5.	
6.	
7.	
8.	

There should be a class on each line. Full-year classes fill Semester 1 and Semester 2.

***NOTE: CERTAIN CLASSES ARE OFFERED ONLY FALL OR SPRING.
LIST THEM IN THE CORRECT SEMESTER BOX.**

Make sure to write "Study Hall" on a line if you want one. (It doesn't matter which line.)

Alternative Electives (#1 being your first choice):

1. _____
2. _____

INTERESTED IN CCE:

YES NO



State Universities in Illinois — At a Glance

Summary of Minimum High School Course Requirements for Admission of Freshman to Illinois Public Universities — Effective 2011 —

	Total	English	Social Studies	Mathematics	Science	Electives and Other Requirements
Chicago State +	15	4 ¹	3 ⁸	3 ¹⁰	3 ¹⁸	2 years of foreign language, music, vocational education or art
Eastern Illinois	15	4 ¹	3 ⁵	3 ¹⁰	3 ¹⁵	2 years of academic or vocational electives.
Northeastern Illinois	15	4 ¹	3 ⁵	3 ¹⁰	3 ¹⁵	2 years of foreign language (FL), or 2 years of fine arts (FA) or a combination of 1 year FA/FL and 1 year of vocational education.
Western Illinois +	15	4 ¹	3 ⁵	3 ¹⁰	3 ¹⁵	2 years of foreign language, music, vocational education, art, theatre, film, religion, philosophy, speech or journalism
Illinois State	15	4	2	3 ¹²	2 ¹⁵	2 years of one foreign language or fine arts; and 2 years of electives,
Northern Illinois	15	4 ²	3 ⁶	3 ¹¹	3 ¹⁶	2 units (one must be foreign language, art, or music); 3 units of the required 15 units may be distributed by deducting no more than one unit from the categories of social studies, sciences, and electives and completing those 3 units in any of the 5 categories of coursework.
Southern Illinois University						
Carbondale	15 or 16	4 ¹	3 ⁸	3 or 4 ¹²	3 ¹⁸	2 years of electives in foreign language, art, fine arts, music or vocational education; if a foreign language is taken, it must include two semesters of the same language.
Edwardsville	15	4 ¹	3 ⁵	3 ¹²	3 ¹⁵	2 years chosen from foreign language, music, the visual arts, theatre, dance and/or vocational education.
University of Illinois						
Chicago	16	4 ⁴	3	3	3 ¹⁸	2 years of foreign language; 1 year of an elective.
Springfield	15	4 ⁴	3 ⁷	3 ¹²	3 ¹⁸	2 years of one foreign language <u>or</u> 2 years of fine arts, selected from art, music, dance and theatre are required.
Urbana-Champaign	15 or 15.5	4 ⁴	2 ⁸	3 or 3.5 ¹⁴	2 ¹⁸	2 years of one foreign language are required; and 2 years (flexible academic units) from any of the five subject categories. Approved art, music, or vocational education courses may be counted in the flexible academic units category.

NOTES:

- + Suggested Electives - includes other academic courses.
1. Emphasizing written and oral communication and literature.
2. Three units of English must be courses emphasizing written and oral communication and literature.
3. Emphasizing grammar, composition, written and oral communication, and literature; may include not more than 1 year of creative writing or journalism.
4. Studies in language, composition, and literature requiring practice in expository writing in all such work. Coursework should emphasize reading, writing, speaking, and listening.
5. Emphasize history and government.
6. One unit must be U.S. history or a combination of U.S. history and government.
7. At least 2 years of history and/or government; other acceptable subjects are anthropology, economics, geography, psychology, and sociology.
8. History and government are preferred. Additional acceptable social studies include anthropology, economics, geography, philosophy, political science, psychology, and sociology.
9. One unit must be American History plus 1 unit of history, government, psychology, economics or geography.
10. Introductory through advanced algebra, geometry, trigonometry, or fundamentals of computer programming.
11. Three to four units of college preparatory mathematics, including one year of geometry and one year of advanced algebra and/or trigonometry.
12. Algebra I & II, and a proof-based geometry course. A fourth unit is highly recommended: trigonometry and pre-calculus, or statistics, depending on the student's area of interest.
13. One year of introductory algebra, 1 year of geometry, 1/2 year of algebra beyond the introductory year, and 1/2 year of more advanced mathematics or fundamentals of computer programming.
14. Algebra, geometry, advanced algebra, trigonometry. Typically, such courses as career/occupational mathematics, consumer mathematics, applied business mathematics, pre-algebra, and computer courses are not acceptable. 3.5 years of mathematics including trigonometry are required in the following curricula: Agricultural, Consumer and Environmental Sciences – agricultural engineering; Business – all curricula; Engineering – all curricula; Fine and Applied Arts – architectural studies; Liberal Arts and Sciences-specialized curricula in biochemistry, chemical engineering, chemistry, geology, and physics.
15. Laboratory sciences.
16. Two units must be courses in the physical or biological sciences. One unit must be a laboratory science.
17. One year of biology, 1 year of chemistry, and 1 additional year of earth science, physics, biology, or chemistry. (All must be laboratory sciences.)
18. Laboratory courses in biology, chemistry, or physics are preferred. Laboratory courses in astronomy and geology are also acceptable. General science will not be acceptable.