

Roanoke-Benson High School

Home of the Rockets



2025-2026 Course 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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ICC HIST 202 American History Since 1877

ICC HIST 117 Early Western Civilization

ICC HIST 118 Modern Western Civilization

ICC PSY 110 Introduction to Psychology

ICC SOC 110 Introduction to Sociology

Special Education

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 four different phases. The original section of the high school was opened on August 28, 1920. The total cost of the building was \$112,000. The original building was retired at the conclusion of the 2013-2014 school year. The east wing of the building was dedicated on March 30, 1954. The addition cost \$283,000. The north wing of the building was completed in 1962.

During the summer of 2013, the construction of a new addition that connected the gym area with the Sowers elementary building was started. The construction was completed in time for the start of the 2014-2015 school year. Many of the classrooms in the gym building at the 1962 building were also renovated. Starting with the 2014-2015 school year virtually every classroom became air conditioned. The original building was demolished in the fall of 2014.

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, civic 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 26 credits, 20 which must not be Physical Education. These 26 required credits must include the following:

- **Language Arts** (4 credits)
- **Mathematics** (3 credits)
- **Science** (2 credits, including 1 credit in Laboratory Science OR Biology. Basic Science is an additional option available by teacher recommendation only)
- **Social Science** (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 (see below) or for early graduation. However, 26 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.
- **Freshman Seminar** - (1 credit) Class of 2027 and all classes after that.

Early Graduation

The Board of Education recognizes that special conditions might arise which would call for the consideration of an early graduation. In order for the Board to consider a student request for an early graduation, the following must be done:

- The principal must receive a letter from the parents or guardian of the student at least one week prior to the October Board of Education meeting of the 7th semester (except in extenuating circumstances) requesting early graduation.
- The student must meet all graduation requirements.
- Requests that meet the approval of the superintendent, principal, and counselor will be presented to the Board of Education.

Students requesting early graduation should be aware of the following facts and regulations:

A graduation ceremony will not be held in January or at mid-year. Diplomas may be awarded at the regular graduation ceremony or mailed. A student electing early graduation is no longer considered a student and will not be allowed to attend school or remain involved in extracurricular activities. This includes events such as athletics, contests, prom.

In the rare case a student would be allowed to graduate one year early, all honors and recognition that is typically available to seniors would be forfeited. This includes recognition for valedictorian and salutatorian. Also, a student graduating one year early would earn a final class rank equivalent to their standing in the current senior class, but would not displace current seniors from their rankings. This may result in overall lowering of official class rank for the early graduate.

Physical Education Exemption Policy

In order to be excused from participation in physical education, a student must present an appropriate excuse from his or her parent/guardian or from a person licensed under the Medical Practice Act. The excuse may be based on medical or religious prohibitions. An excuse because of medical reasons must include a signed statement from a person licensed under the Medical Practice Act that corroborates the medical reason for the request. An excuse based on religious reasons must include a signed statement from a member of the clergy that corroborates the religious reason for the request.

- All PE exemptions must be approved by the building principal.
- Medical exemptions will be considered on a case by case basis. Any student requesting a medical exemption from PE must have a note signed by a medical doctor (see above). If a student has a medical exemption from PE he/she is not able to participate in any extracurricular sports.
- Students who are in marching band may request an exemption from PE as long as the following guidelines are followed:
 - An exemption cannot be used to create a second study hall;
 - If a student drops band during the semester, he or she must return to PE;
 - Exemption would only be for the fall semester.
- Students may exempt out of PE as long as it does not create a second study hall.
 - Fall sports can exempt out of fall semester PE.
 - Winter sports can exempt out of either fall or spring semester PE, but not both.
 - Spring sports can exempt out of spring semester PE.
 - If a student quits a sport, he/she is responsible to make up the PE credit.
- During the junior and senior year, a student can exempt out of PE for the following academic reasons:
 - Enrollment in a class needed for entrance into an institution of higher learning.
 - Class is only offered during hour PE is offered and there is no other way for student to take the class and PE (scheduling conflicts).
 - Enrollment can be adversely affected by not being able to take the class.
 - Enrollment in a class needed for graduation.
 - Class is only offered during hour PE is offered and there is no other way for the student to take the class and PE (scheduling conflicts).
 - Failure to take the class would cause the student not to graduate on time.
 - Academic Overload.
 - Student needs to take classes every hour in order to graduate on time.
 - Student needs to take classes every hour in order to meet the entrance requirements of an institution of higher learning.
- Students with an Individual Education Plan where the plan specifies the student is to receive special education services instead of PE (must be approved by the IEP team).

Registration and Class Load

Class selection and registration is completed during the spring semester for the following year. All students are required to take six academic courses per year, not including Physical Education. Students may enroll in more than six academic courses with permission from the principal or guidance counselor. Students not enrolled in six academic courses, not including Physical Education, are not considered full-time students and are not eligible for extracurricular 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 change courses prior to the first day of the semester. After the first day of the semester, a student cannot add or change courses. A student may withdraw from a class through the first five weeks of a semester. A course may not be dropped if the class load falls below the six academic credits required per semester or creates a second study hall in a semester. Parent permission may be needed to drop a course.

Room Ready

RBHS has invested in interactive technology that allows us to both send and receive course instruction. RBHS is engaged in ongoing conversations with partner school districts to both provide courses to those districts as well as receive courses from those districts. As courses become available, students will be notified.

Dual Credit Courses

Students may take dual credit courses (courses that count for both high school and college credit).

- Course offerings vary from year to year.
- All dual credit courses must be approved by the high school principal.
- Depending on the course, there could be prerequisite requirements.
- Dual credit courses can only be taken in the junior and senior year.
- Dual credit courses will be counted toward grade point average and class rank.
- Students are responsible for all fees and registration costs associated with the course.
- Students must be registered with Illinois Central College (ICC) and pay tuition to ICC in order to receive the college credit.
- Dual credit courses are offered either at RBHS or via an online format provided by ICC.
- Students must meet all enrollment requirements of ICC.

RBHS continues to work with ICC to develop new course opportunities. Additionally the online dual credit courses which are determined by ICC may change.

Dual Credit Courses at RBHS
ICC MATH 110 - Concepts of Mathematics (also offered online)
ICC MATH 111 - General Education Statistics (also offered online)
ICC PHYSC 114 - Introduction to Astronomy
ICC MECTK 121 - Introduction to Mechanical Computer-Aided Drafting Using Autocad
ICC HLTH 121 - Medical Terminology (also offered online)
ICC PHYS 120 - General Physics
ICC ENGL 110 - Composition I (also offered online)

ICC ENGL 111 - Composition II (also offered online)
ICC LIT 111 - The Short Story and The Novel
ICC HORT 110 - Introduction to Horticultural Plant
ICC AGMEC 117 - Principles of Agricultural Mechanics
ICC EDUC 111 - Introduction to American Education
ICC EDUC 213 - Diverse Learners in the Classroom
ICC HIST 201 American History to 1877
ICC HIST 202 American History Since 1877
ICC HIST 117 Early Western Civilization
ICC HIST 118 Modern Western Civilization

Dual Credit Courses - Online via ICC (subject to change)

ICC ART 110 - Art Appreciation
ICC PSY 110 - Introduction to Psychology
ICC SOC 110 - Introduction to Sociology
ICC COMM 110 - Introduction to Communication
ICC ENGL 110 - Composition I
ICC ENGL 111 - Composition II
ICC HLTH 121 - Medical Terminology
ICC BUS 110 - Introduction to Business
ICC MATH 110 - Concepts of Mathematics
ICC MATH 111 - General Education Statistics

Work-Based Learning (Courses offered off-site at a location determined by ICC)

ICC Certified Nursing Assistant Program: CNA 112 - Offsite at Metamora; semester long program
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ICC Emergency Medical Services (EMS) and Fire Science Program: EMS 112 & 114; FRSTK 110 & 113
 - Offsite at ICC Peoria or Pekin campus location; full academic year

ICC Production Welding Program: WELD 111, 112, 113, 121, 122, 131, 135, and 150
 - Offsite at ICC Pekin location; full academic year

Possible Dual Credit Courses via Partner School

ICC BUS 110 - Introduction to Business - EHS

ICC CMPSC 120 - Business Computer Systems - EHS

Credit Earned for Courses

Credit earned for courses will be awarded as a half credit per semester.

Grade Point Average and Class Rank

Final semester grade for all courses will be in the form of a letter grade. The final semester grades are converted to point values, which are then used to compute a semester grade point average based on a 4.000 scale. Class rank will be determined by the cumulative grade point average at the conclusion of each semester. PE and freshman seminar are 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, Advanced Algebra, Pre-Calculus, Calculus, Chemistry, Chemistry II, Physics, Anatomy and Physiology I and II, Sociology, Introduction to Astronomy, and Expository Writing.** Additionally all dual credit courses are weighted. With the exception of dual credit courses, 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	4.000	4.333
A-	3.667	4.000
B+	3.333	3.667
B	3.000	3.333
B-	2.667	3.000
C+	2.333	2.667
C	2.000	2.333
C-	1.667	2.000

D+	1.333	1.667
D	1.000	1.333
D-	0.667	1.000
F	0	0

Final Exam Information

Roanoke-Benson High School requires all students to complete final examinations at the end of each semester. The final exams 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 or if the course is dual credit.

- 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.

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:

Grading 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, 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.**

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.

Agriculture		
Grade Level	Course	Credit Earned
9	Freshman Seminar	1 credit
9/10/11/12	Introduction to Agriculture	½ credit
9/10/11/12	Introduction to Agricultural Mechanics	½ credit
11/12	Welding I	½ credit
11/12	Welding II	½ credit
10/11/12	Agricultural Power	½ credit
10/11/12	Agricultural Science	½ credit
10/11/12	Agronomy	½ credit
10/11/12	Animal Science	½ credit
10/11/12	Animal Veterinary Science	½ credit
10/11/12	Wildlife Biology	½ credit
10/11/12	Horticulture	½ credit
10/11/12	Agribusiness Management	½ credit
10/11/12	Agricultural Sales and Marketing	½ credit
11/12	ICC HORT 110 Introduction to Horticultural Plant	½ credit
12	ICC AGMEC 117 Principles of Agricultural Mechanics	½ credit
11/12	Supervised Agricultural Experience I	½ credit
12	Supervised Agricultural Experience II	½ credit
12	Cooperative Career Education (CCE)	2 credits

Business Education		
Grade Level	Course	Credit Earned
9	Freshman Seminar	1 credit
9/10	Computer Applications	½ credit
9/10/11/12	Advanced Computer Applications	½ credit
10/11/12	Computer Science Discoveries	½ credit
10/11/12	Computer Science Applications	½ credit
10 / 11 / 12	Digital Multimedia	½ credit
10 / 11 / 12	Business Foundations	½ credit
9/10/11 /12	Desktop Publishing	½ credit
10/ 11/ 12	Marketing	½ credit
10/11/12	Accounting I	½ credit
10/11/12	Accounting II	½ credit
11/12	Practices in Entrepreneurship	½ credit
12	Consumer Economics	½ credit
11/12	ICC BUS 110 Introduction to Business	½ credit
11/12	ICC CMPSC 120 Business Computer Systems	½ credit
11/12	CEO Program	2 credits

Family and Consumer Science		
Grade Level	Course	Credit Earned
9	Freshman Seminar	1 credit
9	Introduction to Family and Consumer Science	1 credit
10/11/12	Foods and Nutrition I	½ credit
10/11/12	Foods and Nutrition II	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
11/12	ICC EDUC 111 Introduction to American Education	½ credit
11/12	ICC EDUC 213 Diverse Learners in the Classroom	½ credit

Fine Arts		
Grade Level	Course	Credit Earned
9/10/11/12	Band	1 credit
9/10/11/12	Chorus	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	½ credit
9/10/11/12	Strength & Conditioning	½ credit
9/10	Driver Education	½ credit
11/12	ICC Certified Nursing Assistant Program	1 ½ credits

Industrial Technology		
Grade Level	Course	Credit Earned
9	Freshman Seminar	1 credit
9	Introduction to Industrial Technology and Engineering (Industrial)	1 credit
10/11/12	CADD I	½ credit
10/11/12	CADD II	½ credit
11/12	ICC WELD 110 Welding Blueprint Reading	½ credit
11/12	Production Technology	½ credit
10/11/12	Cabinetmaking and Millwork I	½ credit
10/11/12	Cabinetmaking and Millwork II	½ credit
11/12	Cabinetmaking and Millwork III	½ credit
11/12	Cabinetmaking and Millwork IV	½ credit
11/12	Architectural Drafting	½ credit
11/12	ICC MECTK121 Intro to Mechanical Computer-Aided Drafting Using Autocad	½ credit
12	Home and Building Maintenance	½ credit
12	Independent Study CADD - Engineering Design & Development	½ credit
12	Auto Mechanics	2 credits

Language Arts		
Grade Level	Course	Credit Earned
9	Freshman English - Speech	½ credit
9	Freshman English - Literature	½ credit
9	Freshman English - Strategic Reading	½ credit
10	Sophomore English	1 credit
11	American Literature	½ credit

11	Expository Writing (ICC Transitional English)	½ credit
11	Written Communication	½ credit
11/12	ICC LIT 111 The Short Story and the Novel	½ credit
12	ICC ENGL 110 Composition I	½ credit
12	English for Adult Life	1 credit
12	ICC ENGL 111 Composition II	½ credit

Mathematics		
Grade Level	Course	Credit Earned
9	Geometry	1 credit
9	Math 9	1 credit
10	Math 10	1 credit
11	Math 11	1 credit
10/11/12	Advanced Algebra	1 credit
11/12	Pre-Calculus	1 credit
11/12	ICC MATH 110 Concepts of Mathematics	½ credit
11/12	ICC MATH 111 General Education Statistics	½ credit
12	ICC Transitional Math	½ credit
12	Calculus	1 credit

Science		
Grade Level	Course	Credit Earned
9	Laboratory Science	1 credit
10	Agricultural Science	½ credit
10/11/12	Animal Science	½ credit
10/11/12	Wildlife Biology	½ credit

10/11/12	Horticulture	½ credit
11/12	ICC HORT 110 Introduction to Horticultural Plant	½ credit
9/10	Biology	1 credit
10/11/12	Chemistry	1 credit
11/12	Chemistry II	1 credit
11/12	ICC PHYSC 114 Introduction to Astronomy	½ credit
11/12	Environmental Science	½ credit
10/11/12	Physiology I	½ credit
10/11/12	Physiology II	½ credit
11/12	ICC HLTH 121 Medical Terminology	½ credit
11/12	ICC PHYSC 120 General Physics	½ credit

Social Science		
Grade Level	Course	Credit Earned
9/10/11/12	World History I	½ credit
9/10/11/12	World History II	½ credit
11/12	Global Issues and Government	½ credit
11	United States History	1 credit
10/11/12	Art History	½ credit
9/10/11/12	Cultural Geography	½ credit
10/11/12	Economics	½ credit
10/11/12	Sociology	½ credit
11/12	ICC HIST 201 American History to 1877	½ credit
11/12	ICC HIST 202 American History Since 1877	½ credit
11/12	ICC HIST 117 Early Western Civilization	½ credit
11/12	ICC HIST 118 Modern Western Civilization	½ credit

11/12	ICC PSY 110 - Introduction to Psychology	½ credit
11/12	ICC SOC 110 - Introduction to Sociology	½ credit

Course Information and Descriptions

Agriculture

Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral component in most courses for leadership development, career exploration and reinforcement of academic concepts.

Introduction to Agriculture

½ credit

State Course 18001A001 - Grade 9, 10, 11, 12

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. Units of instruction will include:

- Mechanics and Shop Safety
- Introduction to Computer Use in Agriculture
- Business Records and Management
- FFA and Leadership Skill Development
- Scientific Investigation in Animal Science
- Plant Growth and Reproduction
- Agriculture and Environment

Introduction to Agricultural Mechanics

½ credit

State Course 18401A001 - Grade 9, 10, 11, 12

Prerequisite: None

In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include the basic shop safety, hand and power tool knowledge, fasteners, basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, basic plumbing, concrete, welding, construction, and operating agricultural equipment safely. Improving workplace and computer skills will be a focus.

Welding I

½ credit

State Course 18404A001 - Grade 11, 12

Prerequisite: Introduction to Agricultural Mechanics

This course will emphasize the development of basic welding skills necessary to succeed in the agricultural metal fabrication industry. Topics of instruction include: welding safety, metal identification and properties, joint design and terminology, metal preparation, use of oxy-acetylene torch, Stick Metal Arc Welding (SMAW) focusing on the flat and horizontal position, Gas Metal Arc Welding (GMAW), Oxy-Acetylene cutting/welding, project design and construction. Electrodes for this course are E6013 and E7018.

Welding II - Metal Fabrication

½ credit

State Course 18404A002 - Grade 11, 12

Prerequisite: Introduction to Agricultural Mechanics, Welding I, and CADD I

This course focuses on the development of advanced welding and metal fabrication techniques utilized within the agricultural industry. Topics of instruction may include welding safety, technical drawings & blueprint reading, welding symbols, welding discontinuities and failures, destructive testing, nondestructive examination, equipment setup, metal preparation, pipe welding, cutting processes, oxy-fuel cutting/welding, shielded metal arc welding, gas metal arc welding, flux cored arc welding, and gas tungsten arc welding processes. Suggested welding positions are flat, horizontal, vertical down, and vertical up. Electrodes taught and used may include E6010, E6011 and E7018.

Agricultural Power

½ credit

State Course 18449A001 - Grade 10, 11, 12

Prerequisite: Introduction to Agricultural Mechanics

This comprehensive machinery service course concentrates on the following areas: using service manuals, electrical applications for agricultural equipment, fundamentals of multi-cylinder engines, reconditioning and repairing agricultural equipment, assembling and adjusting agricultural equipment, organization and management of agricultural machinery dealerships, human relations, and sales techniques. Careers such as agricultural equipment salesperson, mechanic, parts manager, sales manager, service technician, and other related occupations will be examined.

Agricultural Science

½ credit

State Course 18003A001 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture or consent of the instructor

Major units of instruction in this course include agricultural research, soil science, plant science, biotechnology, animal science, meat science and horticulture science. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Students will further develop an understanding of the industry of agribusiness. **Students completing this course will earn a ½ science credit towards meeting their graduation requirements.**

Agronomy

½ credit

State Course 18051A003 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture and Agricultural Science

Crop Science courses are designed to provide students with the knowledge and skills necessary for future employment in the agronomy or related industries. Major units of instruction include scientific method, cellular biology, genetics, biotechnology, soil classifications, soil erosion and management, soil fertility, plant classification, plant anatomy and physiology, plant propagation, plant growth, integrated pest management, grain, oil, forage, sugar, and fiber crop production methods, grain quality, grain storage, and grain transportation. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area.

Animal Science

½ credit

State Course 18101A002 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture and Agricultural Science

This course will develop students' understanding of the livestock (beef, dairy, sheep, goats, and swine), poultry, and large (equine) animal industry. Topics of instruction include scientific investigations, genetics, animal anatomy and physiology, animal nutrition, animal reproduction, animal health, and meat science. **Students completing this course will earn a ½ science credit towards meeting their graduation requirements.**

Animal Veterinary Science

½ credit

State Course 18105A001 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture and Agricultural Science

This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Topics to be discussed include veterinary terminology, anatomy and physiology, pathology, genetics, handling and restraint, first-aid, and physical examinations along with common surgical skills. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician.

Wildlife Biology

½ credit

State Course 18504A003 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture and Agricultural Science

This course develops management and conservation skills in understanding the connection between agriculture and natural resources. Student knowledge and skills are developed in: understanding natural resources and its importance; fish, wildlife, prairies, and forestry management and conservation; and exploring outdoor recreational enterprises. Hunting and fishing as a sport, growing and managing tree forests, and outdoor safety education will be featured. Career exploration will be discussed including: park ranger, game warden, campground manager, forester, conservation officer, wildlife manager, and related occupations. **Students completing this course will earn a ½ science credit towards meeting their graduation requirements.**

Horticulture

½ credit

State Course 18052A001 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture and Agricultural Science

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and floral design. **Students completing this course will earn a ½ science credit towards meeting their graduation requirements.**

Agribusiness Management

½ credit

State Course 18201A001 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture

This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneur and/or businessperson. Instructional units include: business ownership types, starting an agribusiness, managing and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, agricultural law, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications.

Agricultural Sales and Marketing

½ credit

State Course Code 18202A001 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture

This course is designed to develop student knowledge and skills in agricultural sales and marketing, commodity marketing, agricultural economics, and international agriculture. Instructional units include: successfully starting an agribusiness, developing a marketing plan, pricing, advertising, and selling products and services, communicating

with customers, applying commodity trading techniques, basic economic principles, the international agribusiness economy, and agricultural career opportunities. Student skills will be enhanced in math, reading comprehension, communications, and writing through agribusiness applications.

ICC HORT 110 Introduction to Horticultural Plant

½ credit / 3 HRS

State Course 18051A001 - Grade 11 and 12

Prerequisite: Agricultural Science or consent of the instructor

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. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

ICC AGMEC 117 Principles of Agricultural Mechanics

½ credit / 3 HRS

State Course 18402A001 - Grade 12

Prerequisite: Small Engines/Welding or consent of the instructor

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:

- Hydraulics
- Service and Maintenance of Multi-cylinder Engines
- Advanced arc, gas, MIG welding
- Concrete/Masonry
- Surveying
- Basic Plumbing

Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.

Supervised Agricultural Experience I

½ credit

State Course 18998A003 - Grade 10

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.

Supervised Agricultural Experience II

½ credit

State Course 18998A003 - Grade 12

Prerequisite: Supervised Agricultural Experience I

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.

Cooperative Career Education (CCE)

2 credits (if taken for full academic year - 1 credit earned through attending job/worksite, 1 credit earned through attending classroom)

Minimum of 15 hours on the job per week, in addition to the CCE classroom portion.

State Course 22153A001 - Grade 12

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:

- Agriculture Education
- Health and Related Occupations
- Personal and Public Services Occupations
- Trade and Industrial Occupations
- Business and Office 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.

Note: Students who lose their job during the semester may be in jeopardy of not obtaining credit for the work-site portion of the class.

Business Education

Computer Applications

½ credit

State Course 10004A001 - Grades 9-12

Prerequisite: None

Computer Applications is an orientation-level course designed to develop awareness and understanding of the Google Suite of software used by employees to perform tasks in business, marketing, and organization. Students will work with a software program that will take them through Docs, Sheets, and Slides, in addition to Forms and Collaboration, time permitting. These skills will serve students both in high school and whatever path they choose after graduation, whether it be higher education or employment.

Advanced Computer Applications

½ credit

State Course 10005A001 - Grades 9-12

Prerequisite: Computer Applications

Advanced Computer Applications is a skill-level course that includes units on computer networks, advanced Google Applications with Sheets, Docs, and Slides, and larger projects that require the combined use of all of these applications. The course may also touch on AI apps and responsible use of AI technology. Other units will be guided by instructor and student interest.

Computer Science Discoveries

Computer Science Applications

½ credit each

State Course 10011A000 or 10011A001 (CTE) - Grades 10-12

Prerequisite: None

This course offers high school students an exciting journey into the world of computer science. Through a project-based approach and interactive curriculum, students will explore foundational computer science concepts, learn coding skills, and engage in hands-on activities that promote critical thinking and problem-solving. The course is taught with www.code.org, a free curriculum that is standards-based and the covers the following units:

- Problem Solving and Computing (Part 2)
- Interactive Animations and Games
- The Design Process
- Data and Society
- Creating Apps with Devices
- AI and Machine Learning (optional)

Because they are stand-alone curriculum units, they may be taught in any order at the instructor's discretion and may be taught in different semesters. In essence, a student may elect to take one or both semesters.

Digital Multimedia

½ credit

State Course 10201A001 - Grades 10-12

Prerequisite: Computer Applications

Digital Multimedia emphasizes the importance of developing effective presentation skills for use in the classroom, college, and workplace. Students will learn to prepare and deliver a variety of presentations and publications with credibility and confidence. Students will work in a project-based environment to incorporate their own written material and digital photography to make presentations and web pages come to life through various software packages as well as learn to make powerful presentations using a variety of presentation software. The creation and

the use of basic web pages, blogs and podcasts will also be explored during the course.

Business Foundations

½ credit

State Course 12051A001 - Grades 10-12

Prerequisite: None

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.

Desktop Publishing

½ credit

State Course 10005A002 - Grades 9-12

Prerequisite: Computer Applications

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.

Marketing

½ credit

State Course 12152A001 - Grades 10-12

Prerequisite: None

This course provides a basic introduction to the scope and importance of marketing in the global economy as it pertains to connecting a product or service to its user. Emphasis is placed on oral and written communication, problem solving, and critical thinking skills as they relate to channels of distribution, sales, pricing, customer service, advertising and promotions, legal and ethical issues concerning marketers, branding, product development, and packaging. Instructional strategies include a computer simulation, real and/or simulated occupational experiences, and projects focused on the marketing functions, particularly as they relate to the sports and entertainment industries.

Accounting I

½ credit

State Course 12104A001 - Grades 10-12

Prerequisite: None

Accounting I is designed to introduce high school students to basic accounting principles and procedures used in daily business operations. Simulated office experiences are provided to help the student work through the financial accounting cycle for a sole proprietorship. Students will learn how to use a double-entry system of debits and credits to keep track of business transactions and prepare financial statements for small, single-owner service and merchandising businesses. Professional business ethics are also emphasized. This course is recommended for all students pursuing a strong background in business, marketing, and management.

Accounting II

½ credit

State Course 12104A002 - Grades 10-12

Prerequisite: Accounting I

Accounting II builds on basic principles learned in Accounting I. Students will use integrated technology to work on projects and complete simulations to apply accounting theories and generate reports used in making day-to-day business decisions. Emphasis will be placed on decisions made in the managerial accounting of corporations and partnerships by analyzing financial statements. This course is recommended for all students who may pursue careers in accounting, finance, business management, law, marketing, or entrepreneurial studies.

Practices in Entrepreneurship

½ Credit

State Course 12053A001 - Grades 11-12

Prerequisite: Business Foundations, Accounting, Marketing, or Digital Multimedia.

This interdisciplinary class offers students the opportunity to manage and operate a small business within the school. Students will acquire the necessary skills to become successful business managers and entrepreneurs, through in-class topics such as economics, management, marketing, business law, and accounting. Students gain authentic experience running a small retail business through this learning opportunity.

Critical learning Standards:

- **Entrepreneurship**: Students will be able to design and operate a small business
- **Sales & Marketing**: Students will be able to evaluate how the marketing process relates to the success of a business
- **Financing & Recordkeeping**: Students will be able to develop a system of recordkeeping and financial management for a small business.
- **Management**: Students will be able to create and control a small business operation using the management process.

This course is for juniors and seniors. Sophomores may register for the course with the consent of the instructor.

Consumer Economics

½ credit

State Course 22210A000 - Grade 12

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.

ICC BUS 110 Introduction to Business

½ credit / 3 HRS

Grades 11-12

Prerequisite: None

This course covers the factual and informational survey of business designed to give the student a background for understanding the principles and practices governing the operation of modern business. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

ICC CMPSC 120 Business Computer Systems

½ credit / 3 HRS

State Course 10003A001 - Grades 11-12

Prerequisite: Meet ICC requirements

Designed primarily for students planning to major in business. Course will acquaint and train students in the use of business software including word processing, database management, spreadsheets, presentation software, and internet access methods. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

CEO Program

2 credits

State Course 12998A001 - Grades 11-12

Prerequisite: None, Accounting and/or Business Foundations preferred

Creating Entrepreneurial Opportunities is a year-long course designed to utilize partnerships that provide an overview of business development and processes. Our local business community partners with area schools to create project-based experiences for students by providing funding, expertise, meeting space, business tours, and one-on-one mentoring. Students visit area businesses, learn from guest speakers, participate in a class business, write business plans, and start and operate their own businesses. Business concepts learned through the experiential CEO class are critical; the 21st century skills of problem-solving, teamwork, self-motivation, responsibility, higher-order thinking, communication, and inquiry are at the heart of a student's development throughout the course. *Interested students must apply at: <https://www.woodfordcountyceo.com/>. Students must be accepted by the CEO board. Students will be responsible for all transportation costs associated with the program.*

Family and Consumer Science

Introduction to Family and Consumer Science

1 credit

State Course 19251A001 - Grade 9

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.

Foods and Nutrition I

½ credit

State Course 16054A001 - Grades 10-12

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.

Foods and Nutrition II

½ credit

State Course 16054A002 - Grades 10-12

Prerequisite: Foods and Nutrition I

Food and Nutrition II provides principles of application into the hospitality industry, including nutrition, culinary, and entrepreneurial opportunities. Course content includes the following: selection, purchase, preparation, and conservation of food, dietary needs and trends, safety and sanitation, and careers in food service industries.

Living Environments

½ credit

State Course 05193A001 - Grades 10-12

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.

Fashion Exploration

½ credit

State Course 19201A001 - Grades 10-12

Prerequisite: Intro to 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.

Adult Living**½ credit****State Course 19259A001 - Grade 11 and 12****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.

Parenting**½ credit****State Course 19051A001 - Grade 11-12****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. Parenting is offered on alternating school years with Child Development. Parenting is scheduled to be offered during the 2018-2019 school year.

Child Development**½ credit****State Course 19052A001 - Grades 11-12****Prerequisite: None**

This one semester course includes basic information concerning the physical, emotional, social and intellectual development of children. Course content includes prenatal 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. Child development is offered on alternating school years with Parenting. Child Development is scheduled to be offered during the 2017-2018 school year.

ICC EDUC 111 Introduction to American Education**½ credit / 3 HRS****State Course 19152A001 -Grades11-12****Prerequisite: Meet ICC requirements**

Prerequisite: An introduction to the field of American education, this course will cover history, philosophy, financing, legal aspects, and current issues of American education. Students will be given a general overview of how American schools came to be and how they function today. They will be introduced to the Illinois Professional Teaching Standards. Students will participate in a minimum of 15 documented clinical experiences involving observation of child learners and practitioners at work, according to specified guidelines. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

ICC EDUC 213 Diverse Learners in the Classroom**½ credit / 3 HRS****State Course 19154A002 -Grades 11-12****Prerequisite: Meet ICC requirements**

This course is a study of learners who are at risk of failure, who exhibit exceptional ability or disability, and those who may be English Language Learners. It is also the study of strategies educators use to meet their needs. It prepares the future teacher by providing knowledge of assistive technology, early intervention, differentiation, and universal design for learning needed to modify instruction and curricula for diverse learners included in the traditional classroom. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

Fine Arts

Band

1 credit

State Course 05101A000 - Grades 9-12

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 contests.

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.

Chorus

1 credit

State Course 05110A000 - Grades 9-12

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.

Music Theory

½ credit

State Course 05113A000 - Grades 9-12

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 Language

Spanish I

1 credit

State Course 06101A000 - Grade 9

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.

Spanish II

1 credit

State Course 06102A000 - Grade 10

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.

Spanish III

1 credit

State Course 06103A000 - Grade 11

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.

Spanish IV

1 credit

State Course 06104A000 - Grade 12

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.

Freshman Seminar

Freshman Seminar

1 credit

State Course 21052A001 - Grade 9

Prerequisite: None

All freshmen will take four nine week courses that will give an introduction to career areas. The areas covered will be Family and Consumer Science, Industrial Technology, Computer Literacy, and Agriculture. The class will be graded on a pass/fail basis. The class will not count towards GPA but will count towards graduation.

Health/Physical Education/Driver Education

Health

½ credit

State Course 08051A000 - Grade 10

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.

Physical Education

1 credit (½ credit each semester)

State Course 08001A000 - Grades 9-12

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:

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

Strength and Conditioning

½ credit

State Course 08005A000 - Grades 9-12

Prerequisite: None

Strength and Conditioning is an alternative to Physical Education. This course involves the utilization of calisthenics, weight training and aerobic activities to promote physical fitness.

Driver Education

½ credit

State Course 08152A000 - Grades 9-12

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. A student must have earned 4 credits (8 classes) in the previous two semesters before starting the over-the-road portion of

driver's education. Additionally the principal reserves the right to deny a student from the behind the wheel portion for academic and disciplinary reasons.

ICC HCSV 0155 Certified Nursing Assistant

1 ½ credits/ 7 HRS

State Course: 14051A001 - Grades 11 and 12

Prerequisite: Physiology; Meet ICC requirements

This course is composed of a combination of subject matter and experiences designed to perform tasks of individuals receiving nursing services. The student learns those competencies needed to perform as a nurse assistant under the direction of the registered nurse. The units of instruction should include the role of the nurse assistant while covering general health care topics; medical terminology; patients/clients and their environment; special feeding techniques; psychological support and, in long-term and terminal illness, death and dying (e.g., chronically ill, children, new mothers, and so on); and all other basic nursing skills. Topics covered typically include normal growth and development; feeding, transporting patients, hygiene, and disease prevention; basic pharmacology; first aid and CPR; observing and reporting; care of equipment and supplies; doctor, nurse, and patient relationships and roles; procedure policies; medical and professional ethics; and care of various kinds of patients. In order to have an approved nurse assistant program (one in which the students are eligible to sit for the certifying exam), the program must be approved by the Illinois Department of Public Health. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

Industrial Technology

Industrial Technology and Engineering

1 credit

State Course 21052A002 - Grade 9

Prerequisites: None

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

Production Technology

½ credit

State Course 13052A001- Grade 11 and 12

Prerequisites: Successful completion of Introduction to Industrial Technology and Cab & Mill 2

Production Technology is a course designed to foster an awareness and understanding of manufacturing and construction technology. Through a variety of learning activities, students are exposed to many career opportunities in the production field. Experiences in manufacturing include product design, materials and processes, tools and equipment including computers, CNC processes, safety procedures, management, research and development, production planning, types of production, marketing and servicing. Students will work with wood, plastic composites and more. If time permits, in construction, students are exposed to site preparation, foundations, building structures, installing utilities, and finishing and servicing structures. Projects for this class are of a higher skill level and will require students to work more independently.

Cabinetmaking and Millwork I

½ credit

State Course 17007A001 - Grades 10, 11 and 12

Prerequisites: None

Cabinetmaking and Millwork I course provides students with experience in constructing cases, cabinets, counters, and other interior woodworking projects. Students learn how to use various woodworking machines and power tools for cutting and shaping wood. This course can cover the different methods of joining pieces of wood, how to use mechanical fasteners, and how to attach hardware. There are fees associated with this class as students are expected to cover the costs of individual student project materials.

Cabinetmaking and Millwork II

½ credit

State Course 17007A002 - Grades 10, 11 and 12

Prerequisites: Cabinetmaking and Millwork I

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. Students are to complete a project of their own design and pay for their own materials. Students should have an idea of a project(s) coming into the course

Cabinetmaking and Millwork III

½ credit

State Course 17007A003 - Grades 11 and 12

Prerequisites: Cabinetmaking and Millwork II

This course provides learning experiences related to the erection, installation, and maintenance of commercial and residential cabinetry, and the repair and maintenance of stationary woodworking machinery. Planned learning activities emphasize the development of more advanced knowledge and skills than those provided 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. In addition, more advanced woodworking machine maintenance skills are introduced. Students are to complete a project of their own design and pay for their own materials they must procure. Projects are to be of a higher degree of difficulty.

Cabinetmaking and Millwork IV

½ credit

State Course 17007A002 - Grades 11 and 12

Prerequisites: Cabinetmaking and Millwork III

This course will provide students with an opportunity to apply woodworking skills, engineering research principles and project management skills. Students will build a project of their own choosing that requires a higher level of skill and time management, and may include new or different materials and processes that the student wishes to explore. Course work is facilitated by the instructor and is independent in nature. Students that wish to take this course need to have a very clear idea of a design/ plan they wish to build for the course. This course is reserved for students who have completed all other Cabinet and Millwork course offerings, and requires instructor and administrator approval.

Home and Building Maintenance

½ credit

State Course 17009A001 - Grade 12

Prerequisites: None

This course includes learning experiences and skills in maintaining Residential (Home) 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 test equipment, hand power tools and basic carpentry skills. Students will gain general knowledge on how to make decisions about when to repair or replace, when to do it yourself or call in a professional when they own a home. **Home Maintenance is specifically geared toward students that have NOT taken diverse I.T. or AG lab classes.**

CADD I

½ credit

State Course 21106A001 - Grades 10-12

Prerequisites: None

This course is designed to enhance the student's knowledge and experience in design and engineering in the areas of drafting and solid modeling/ spatial reasoning, as well as to encourage those with limited drafting experience to participate in computer generated images/drawings. Emphasis is stressed on use in industry, following standardized procedures, gaining knowledge of storage, retrieval and specific file management associated with modern CADD programs, 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.

CADD II

½ credit

State Course 21106A002 - Grades 10-12

Prerequisites: CADD I

This course is designed to enhance the student's knowledge and experience in design and engineering in the areas of solid modeling and industrial applications for CADD, as well as to encourage those with limited drafting experience to participate in computer generated images/drawings. Students will develop a variety of solid modeling and drafting skills including: pictorial and working drawings, industrial applications of 3-D printing and prototyping, as well as complete a section on architectural design using modern software. Visual presentations for the class and a peer review are required. Students will engage in a series of problem solving units focusing on teamwork and communication throughout the year. Thinking "outside the box" may be an asset.

ICC WELD 111 Welding Blueprint Reading

½ credit / 3 HRS

State Course 21102A001 - Grades 11-12

Prerequisites: CADD I (or permission of the instructor); Meet ICC requirements

This is a course designed for welding blueprint reading for related job improvement. Drawings studied include views, sectional views, auxiliary views, dimensioning, fasteners, material symbols, and working drawings. Problems which will enable students to apply information concerning commonly accepted welding standards will be assigned. *This course is pending approval from ICC.*

ICC MECTK 121 Intro to Mechanical Computer-Aided Drafting Using Autocad

½ credit / 3 HRS

State Course 21102A001 - Grades 11-12

Prerequisites: CADD I (or permission of the instructor); Meet ICC requirements

The course content for Technical Drafting will expand on CADD modeling skills, especially as they relate to mechanical engineering and industrial concepts. A variety of skills will be used and expanded from CADD 1 and II, including working drawings, assemblies, Fastener design, blueprint reading and symbol identification. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

Architectural Drafting

½ credit

State Course 21103A001 - Grades 11-12

Prerequisites: CADD II (or permission of the instructor)

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.

Engineering Design & Development (Independent CADD study)

½ Credit

State Course 21054A001 - Grade 12

Prerequisite: CADD I, CADD II, Architectural Drafting, Technical Drafting

Engineering Design and Development will provide students with an opportunity to apply engineering research principles as they design and construct a solution to an engineering problem. Students typically develop and test solutions using computer simulations or models but eventually create a working prototype and presentation as part of the design solution. Students that wish to take this course need to have a very clear idea of a design problem they wish to complete/solve for the course before they enroll. This course is reserved for students who have completed all other CADD course offerings, and requires instructor and administrator approval.

Auto Mechanics II

2 credits

State Courses 20104A002 & 20104A002 - Grade 12

Prerequisite: Auto Mechanics I with a grade of “C” or better

Auto Mechanics II is a lab-oriented course where students build upon theoretical principles learned in Auto Mechanics I. Students must have reliable transportation in order to attend class away from RBHS.

Language Arts

Freshman English - Speech

½ credit

State Course 01155A000 and 01001A000 Grade - 9

Prerequisite: None

Speech provides students with an opportunity to develop their public speaking skills. This 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. Types of speeches include informative, entertaining, and persuasive, along with a sizable group presentation at the end of the semester.

Freshman English - Literature

½ credit

State Course

Grade - 9

Prerequisite: None

Freshman English is a required introductory level course focusing on reading, writing, listening, and presentation skills necessary for future English courses. This course focuses on comprehension and reading strategies and will be composed of works of grade appropriate fiction and non-fiction and may include novels, essays, or plays. Grammar is examined in relation to writing through learning to identify and correct individual weaknesses.

Freshman English - Strategic Reading

½ credit

State Course 01067A000 - Grade - 9

Prerequisite: None

This course is designed to improve students' reading skills. It is for students whose reading achievement is below the proficient level or for any student who wishes to improve his or her reading comprehension and fluency. Multi-level materials of high interest are used to individualize each student's program. Instruction focuses on comprehension and content-area reading strategies, vocabulary development, and fluency. Many different types of publications and literature will be used: short stories, fiction and nonfiction novels, textbooks from other classes, newspapers, magazines, and more. Students will read every day: responses to reading take a variety of forms, including in-class and online discussion, writing, individual assessments, and group projects.

Sophomore English

1 credit

State Course 01002A000 - Grade 10

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. Also included will be a unit in writing to reinforce established concepts of grammar and to emphasize the structure and logic of essays.

American Literature

½ credit

State Course 01054A000 - Grade 11

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, Romanticism, Naturalism, Realism, Modernism, and Contemporary Literature. Students will read two American novels 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.

Written Communication

½ credit

State Course 01102A000 - Grade 11

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.

Expository Writing (ICC Transitional English)

½ credit

State Course 01103A000 - Grade 11

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 descriptive, process, cause/effect, comparison/contrast, and persuasive writing. The semester culminates in an MLA research project utilizing secondary sources. Students will also study the memoir as a literary form and craft their own personal memoir. To meet graduation requirements, all students must complete either Expository Writing or Written Communication.

ICC LIT 111 The Short Story and the Novel

½ credit / 3 HRS

State Course 01058A000 - Grade 11 or 12

Prerequisite: Meet ICC requirements - Approved reading placement score, or equivalent

This course of extensive reading in prose fiction is designed to enhance the student's ability to read the short story and the novel analytically with keener understanding and heightened appreciation of content and form.

Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.

ICC ENGL 110 Composition I

½ credit / 3 HRS

State Course 01105A000 - Grade 12

Prerequisite: Expository Writing; Meet ICC requirements

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. It is the goal to be able to have students earn Dual Credit for ENGL 110 at ICC through this course - subject to instructor qualifications.

(Description from ICC) This course progresses the student from writing expressive compositions (expressing the ideas of the writer) to writing referential compositions (explaining or analyzing the subject matter for the reader) to writing persuasive compositions (persuading an audience), through critical reading, discussion, exercises, conferences, and revision. The majority of the writing is referential. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

English for Adult Life I

½ credit

State Course 01004A000 - Grade 12

Prerequisite: None

Senior English 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 summarizing, paraphrasing, and persuasive writing.

English for Adult Life II

½ credit

State Course 01052A000 - Grade 12

Prerequisite: None

Senior English 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.

ICC ENGL 111 Composition II

½ credit / 3 HRS

State Course 01105A000 - Grades 11 and 12

Prerequisites: Meet ICC requirements

This course progresses the student from writing analysis of and inquiring about issues to writing argumentative and persuasive compositions using research, though critical reading, discussion, exercises, conferences, and revision. The majority of the writing is argumentative. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

Mathematics

Math 9

1 credit

State Course 02061A000 - Grade 9

Prerequisite: None

Math 9 is the first year in a three year sequence of integrated mathematics. This class integrates basic concepts in algebra, geometry, and statistics. The goal is for students to experience mathematics as a useful subject with multiple ways to solve problems. The course is designed for students who are not ready to take Geometry as a freshman. The class will cover order of operations, solving one-step and two-step equations, proportions, percents, plotting points, graphing lines, inequalities, exponent rules, basic statistics, basic geometry terms, area of basic shapes, and properties of triangles. More algebra, geometry, and statistics will be covered based on the level of the students.

Math 10

1 credit

State Course 02061A000 - Grade 10

Prerequisite: Math 9

Math 10 is the second year in a three year sequence of integrated mathematics. This class reviews the concepts that were covered in Math 9 and then extends those concepts to include higher level problems. The class will cover solving multi-step equations, working with irrational numbers, writing linear equations into various forms, solving systems of equations, factoring quadratics, matrices, geometric constructions, transformations, similar triangles, area of more complicated shapes (that were not covered in Math 9), and volume. Connections will be made between the material that was learned in Math 9 and this higher level mathematics.

Math 11

1 credit

State Course 02061A000 - Grade 11

Prerequisite: Math 9 and Math 10

Math 11 is the third year in a three year sequence of integrated mathematics. This class reviews, extends, and adds to the objectives that were covered in Math 9 and Math 10. The objectives reach a more advanced level of thinking and problem solving. The class will cover solving radical equations and rational equations, working with complex numbers, probability of simple and compound events, statistical distributions and displays, properties of quadrilaterals, Pythagorean theorem, distance formula, trigonometry, and surface area and volume of three dimensional figures. Connections will be made between the material that was learned in Math 9 and Math 10 and this high level mathematics. **Course offered starting 2018-2019 school year.**

Geometry

1 credit

State Course 02072A000 - Grade 9

Prerequisite: Algebra in 8th grade

This course is a modern course of geometry. It is a rigorous study of geometric definitions, postulates, and theorems. It is designed to fulfill the requirements for a college-required course in high school mathematics. Emphasis is placed on applications 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.

Advanced Algebra

1 credit

State Course 02056A000 - Grade 10

Prerequisite: Geometry or Math 9, 10, 11

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. Students are expected to purchase a graphing calculator (such as a T-84 Silver Edition) for extensive use in this course.

ICC MATH 110 Concepts of Mathematics

½ credit / 3 HRS

State Course 02994A000 - Grades 11 and 12

Prerequisites: "C" or better in Advanced Algebra/Math 11 OR meet ICC requirements

This is a semester course of integrated mathematics that includes:

1. The Art of Problem Solving
2. The Basic Concepts of Set Theory
3. Personal Financial Management
4. Geometry (selected topics)
5. Counting Methods
6. Probability
7. Introduction to Logic

Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.

ICC MATH 111 General Education Statistics

½ credit / 3 HRS

State Course 02201A000 - Grades 11 and 12

Prerequisites: "C" or better in Advanced Algebra/Math 11 OR meet ICC requirements

This is a semester course that includes:

1. Data Collection
2. Organizing and Summarizing Data
3. Numerically Summarizing Data
4. Describing the Relation between Two Variables
5. Probability
6. Discrete Probability Distributions
7. The Normal Probability Distribution
8. Sampling Distributions
9. Estimating the Value of a Parameter
10. Hypothesis Testing Regarding a Parameter

Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.

Pre-Calculus

1 credit

State Course 02110A000 - Grade 11 and 12

Prerequisite: 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-84 Silver Edition) for extensive use in this course.

Transitional Mathematics

1/2 credit

State Course 02201A001 - Grade 12

Prerequisite: Three years of credit in Mathematics *This course does not count towards the mathematics graduation requirement.*

Mathematics course framework designed to prepare and transition students directly into college and career pathways requiring general education college level math competencies in quantitative literacy and statistics. The competencies within each domain should include but are not limited to: numeracy (operation sense, estimation, measurement, quantitative reasoning, basic statistics, and mathematical summaries), application based algebraic topics, and functions and modeling. Upon completion students should be able to: demonstrate proficiency and understanding in basic numeracy competencies in whole numbers, integers, fractions, and decimals, use estimation and explain/justify estimates, apply quantitative reasoning to solve problems involving quantities or rates, use mathematical summaries of data such as mean, median, and mode, use and apply algebraic reasoning as one of multiple problem-solving tools, and use functions and modeling processes. Course to be delivered through authentic application, problem-based instruction designed to build mathematical conceptual understanding and critical thinking skills.

Calculus**1 credit****State Course 02121A000 - Grade 12****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 algebraically. Students are expected to purchase a graphing calculator (such as a T-84 Silver Edition) for extensive use in this course.

Science

Laboratory Science

1 credit

State Course 03159A000 - Grade 9

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, weather, 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 students have taken and passed biology, they are unable to enroll in this course.

Biology

1 credit

State Course 03051A000 - Grade 9 or 10

Prerequisite: None

This course is an introduction to the study of life. Students will master and demonstrate their understanding of such topics as the foundations of biology, cell biology, genetics, and biotechnology through laboratory experiments, discussions, chapter tests, and multiple other forms of assessment. Within this course, students will develop an understanding of the living world that surrounds them, how they influence it, and the science behind it. Freshman must be recommended to enroll in this course.

Agricultural Science

½ credit

State Course 18003A001 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture or consent of the instructor

Major units of instruction in this course include agricultural research, soil science, plant science, biotechnology, animal science, meat science and horticulture science. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Students will further develop an understanding of the industry of agribusiness. **Students completing this course will earn a ½ science credit towards meeting their graduation requirements.**

Animal Science

½ credit

State Course 18101A002 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture and Agricultural Science

This course will develop students' understanding of the livestock (beef, dairy, sheep, goats, and swine), poultry, and large (equine) animal industry. Topics of instruction include scientific investigations, genetics, animal anatomy and physiology, animal nutrition, animal reproduction, animal health, and meat science. **Students completing this course will earn a ½ science credit towards meeting their graduation requirements.**

Wildlife Biology

½ credit

State Course 18504A003 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture and Agricultural Science

This course develops management and conservation skills in understanding the connection between agriculture and natural resources. Student knowledge and skills are developed in: understanding natural resources and its importance; fish, wildlife, prairies, and forestry management and conservation; and exploring outdoor recreational enterprises. Hunting and fishing as a sport, growing and managing tree forests, and outdoor safety education will be featured. Career exploration will be discussed including: park ranger, game warden, campground manager, forester, conservation officer, wildlife manager, and related occupations. **Students completing this course will earn a ½**

science credit towards meeting their graduation requirements.

Horticulture

½ credit

State Course 18052A001 - Grade 10, 11, 12

Prerequisite: Introduction to Agriculture and Agricultural Science

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and floral design. **Students completing this course will earn a ½ science credit towards meeting their graduation requirements.**

ICC HORT 110 Introduction to Horticultural Plant

½ credit / 3 HRS

State Course 18051A001 - Grade 11 and 12

Prerequisite: Agricultural Science or consent of the instructor; Meet ICC requirements

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. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

Chemistry

1 credit

State Course 03101A000 - Grades 10 and 11

Prerequisite: Concurrent enrollment or credit in Advanced Algebra

Chemistry will explore the natural world through the study of the atom. Topics of study will include chemical reactions, names and formulas for compounds, atomic structure, the Periodic Table, gasses, solutions, acids and 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.

Chemistry II

1 credit

State Course 03102A000 - Grades 11 and 12

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 and 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. The next time it will be offered is Fall of the 2025-2026 school year.

ICC PHYSC 114 Introduction to Astronomy

½ credit / 4 HRS

State Course 03004A000 - Grades 11 and 12

Prerequisite:

1. RBHS Math 11, and Biology. Concurrent or credit in Chemistry and Advanced Algebra strongly recommended.

2. Meet ICC requirements

This course explores the origin and nature of the solar system, stars, galaxies, and the universe. We will examine how astronomy has changed from antiquity until modern day. The course will consist of three hours of lecture and two hours of laboratory activities per week, as well as some occasional evening observations locally or at nearby telescope facilities. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

Introduction to Astronomy is offered in the fall semester of alternating years. The next time it will be offered is Fall of the 2024-2025 school year.

Environmental Science

½ credit

State Course 03003A000 - Grade 11 and 12

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 effect ethics, economics, politics, laws, and environmental education has on the environment.

Physiology I

½ credit

State Course 03055A000 - Grade 11-12

Prerequisite: Biology

This course is an introduction to the human body. Relationships of anatomy and physiology are considered. This course must be successfully completed prior to enrolling in Physiology II. Topics covered include, but are not limited to, an introduction to medical terminologies, directional terminologies, cell and tissue analysis, the integumentary system, the skeletal system, and myology. Laboratory exercises and classroom discussions will be the primary modes of instruction.

Physiology II

½ credit

State Course 03053A000 - Grade 11 and 12

Prerequisite: Biology and Physiology I

This course is an academically challenging life science lab course. This course will include a review of Physiology I with the introduction of cat dissections in the laboratory. This course will focus on gastroenterology, cardiology, urology, and many other branches of medicine. Laboratory work will be the primary basis of the course and supplemented with various other exercises including an optional cadaver lab observation when available.

ICC HLTH 121 Medical Terminology

½ credit / 2 HRS

State Course: 14154A001 - CTE Course - Grades 11 and 12

Prerequisite: Meet ICC requirements

This course is a study of terminology used in all areas of medical and paramedical specialties. Emphasis is placed on word-building techniques and understanding of typical medical reports. **Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.**

ICC PHYS 120 General Physics

1 credit / 5 HRS

State Course 03151A000 - Grades 11 and 12

Prerequisite: Per ICC policy: 1) Approved reading placement score (or equivalent), and 2) High school or college credit in trigonometry, or concurrent enrollment in ICC's Math 120. Any student who has successfully completed PreCalculus or is concurrently enrolled in PreCalculus will satisfy this requirement.

Students taking this course will be scheduled into two consecutive class periods - this course is the same as two semester courses. Physics 120 is a one semester, dual-credit class with ICC. This course is a study of mechanics and thermodynamics. Topics will include constant speed and accelerated motion, forces, Newton's Laws of Motion, energy, momentum, rotational motion, gravity, waves, sound, heat, changes of state, and the laws of thermodynamics.

This course is intended for all students with an interest in studying science, engineering, medicine, or medical technology in college.

- Lectures will be scheduled daily at Roanoke-Benson HS.
- A three-hour lab will be scheduled once a week at ICC. Student attendance in the lab each week is mandatory. **In accordance with ICC policy, a student who misses 3 labs automatically fails the course.**
- Physics 120 will be offered in the spring of alternating years. The next time it will be offered is in the Spring of the 2024-2025 school year.
Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.

Social Science

World History I

½ credit

State Course 04051A000 - Grades 9, 10, 11, 12

Prerequisite: None

This class will focus on the beginnings of civilizations throughout the world and the development of the Western World from Mesopotamia through Rome. Students will learn to compare and contrast ancient cultures, study the effects civilizations have on each other, and understand the changes and continuities in human communities throughout history. There will be a focus on academic writing and beginning research skills along with alternative paths to test grades through various projects.

World History II

½ credit

State Course 04053A000 - Grades 9, 10, 11, 12

Prerequisite: None

This class will focus on the development of Late Antiquity to pre-modern cultures and the development of the Western World from Rome through the Renaissance. Students will learn to compare and contrast cultures, study the effects civilizations have on each other, and understand the change and continuity in nations throughout history. There will be a focus on academic writing and beginning research skills along with alternative paths to test grades through various projects.

Global Issues and Government

½ credit

State Course 04161A000 - Grades 11 and 12

Prerequisite: None

Global Issues and Government concerns the development and workings of: the American government system, civic engagement and responsibilities, and the impact and power of the law. The United States and Illinois Constitution(s) will be examined during the course. The study of each document will conclude with a required assessment (**passing both constitution tests are a graduation requirement**). The course also focuses on: foreign policy, components of other government systems, and an investigation of current issues.

United States History

1 credit

State Course 04102A000 - Grade 11

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.

Art History

½ credit

State Course 05152A000 - Grades 10, 11, 12

Prerequisite: World History I or World History II

Art History introduces students to significant works of art, architecture, artists, and artistic movements that have shaped the world and influenced or reflected various periods of history. This course seeks to develop an understanding of art in relation to social, cultural, political, and historical events throughout the world, while

covering multiple artists, aesthetic issues, and the ever changing artistic fields. Students will have a couple opportunities to create their own works of art using established methods and materials relevant to historical periods.

Cultural Geography

½ credit

State Course 04001A000 - Grades 9, 10, 11, 12

Prerequisite: None

This course will familiarize students with the major regions, nations, geographic features, governments, religions, and cultures of the world. Work will center on overviews of historical trends with a focus on modern history, current events, and world conflicts. Comparative research will help the students understand the different belief systems around the globe and gain an insight into trends in various economic and political systems.

Economics

½ credit

State Course 04201A000 - Grades 10-12

Prerequisite: None

Economics is the study of the human struggle to satisfy unlimited wants and needs within the scarcity of natural and manufactured resources. In this course students will gain an operational understanding of economics and its principles. This course provides students with the knowledge to develop skills that will allow them to interpret and better understand world events in reference to their impacts on international and national/local economic activity.

Sociology

½ credit

State Course 04258A000 - Grades 10-12

Prerequisite: None, Ancient and Modern World History Strongly Recommended

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.

ICC HIST 201 American History to 1877

½ credit

Grades 11 and 12

Prerequisite: Meet ICC requirements

This course traces the history of the United States from the pre-Columbian period through the Civil War and its aftermath. Topics include the clash between the American view of self-government and the English concept of empire, the achievement of independence, the formulation and implementation of federal government, the rise and development of political parties, changing concepts of democracy, the Westward movement, sectional controversy, the Civil War, and Reconstruction.

Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.

ICC HIST 202 American History Since 1877

½ credit

Grades 11 and 12

Prerequisite: Meet ICC requirements

This course traces the history of the United States from the end of Reconstruction to the present. Topics include western expansion and the impact on the frontier; the growth and development of an industrial economy; responses to industrialization; reform and the meaning of American democracy; the United States and World War I; the 1920s, the Depression and the New Deal; World War II; and the United States since 1945.

Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.

ICC HIST 117 Early Western Civilization

½ credit

Grades 11 and 12

Prerequisite: Meet ICC requirements

This course presents an introduction to the history of Western Civilization in the Ancient, Medieval, and Renaissance periods. Major topics include origins of civilization, the Hebrews, Greek and Roman civilization, origins and development of Christianity, Medieval society and economy, the rise of national monarchies, the Renaissance, the Protestant Reformation, and the origins of modern economic and political concepts.

Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.

ICC HIST 118 Modern Western Civilization

½ credit

Grades 11 and 12

Prerequisite: Meet ICC requirements

This course presents an introduction to the history of Europe and its relationships with the world since the Renaissance. Major topics include development of science and technology, capitalism and industry, liberalism, imperialism, nationalism, socialism, totalitarianism, and international relations.

Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.

ICC PSY 110 Introduction to Psychology

½ credit / 3 HRS

Grades 11 and 12

Prerequisite: Meet ICC requirements

Psychology is the scientific study of behavior and mental processes. This course will introduce the student to fundamentals of physiological psychology, sensation and perception, learning, emotions and motivation, and psychological disorders and their treatment. The role of research and the scientific method are emphasized throughout the course.

Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.

ICC SOC 110 Introduction to Sociology

½ credit / 3 HRS

Grades 11 and 12

Prerequisite: Meet ICC requirements

This course utilizes the approaches of functionalism, conflict theory, and interactionism to analyze the structures and processes of group life from a scientific perspective. Major areas of inquiry include: theory and methodology, culture, social organizations, socialization, groups, institutions, formal organizations collective behavior, and social change.

Students will be responsible for additional fees for dual credit classes. Students must meet all ICC requirements.

Special Education

Curriculum offered in Special Education at Roanoke-Benson High School varies for each student depending upon his or her educational needs. Exact content and placement in special education courses is dependent upon Individual Education Plans developed through Special Education placement. Special Education students will be placed in the regular curriculum whenever possible.