



# Indian River High School Course Handbook 2002 - 2003



“You Can’t Hide that Indian River High  
School Pride”

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# Indian River High School

**Mark L. Steele**  
Principal

**James R. Steele**  
Assistant Principal

**Sonya Purcell**  
**Jack Watkins**  
**Howard Smack**  
Guidance Counselors

**Thomas Mahler**  
Career Coordinator

**Dale W. Steele**  
Athletic Director

**Indian River High School  
Staff Roster  
2001 - 2002**

**English**

Michele Peeling  
Sandy Browning  
Judy Dixon  
Brian Lekites- Chair  
Paula Lobo  
Tom Messino  
Mindy Hete  
Betty Lou Deldeo

**Science**

Dan Devine  
Jon Frey  
Todd Fritchman  
Kim Henry – Chair  
Tom Milspaw  
Chantel Lowe  
Jamie Masters

**Special Education**

Sally Benner – Chair  
Jackie Mitchell  
Stacey Holladay  
Sean Oates  
Steve Persolio  
William Revels  
Dale Steele  
Jill Warrington  
Karen Maull  
Barbara Rynkowski  
Terri Croll

**Technology Education**

Todd Cropper – Chair

**Mathematics**

Chris Wenker  
Micah Lingenfelter  
Marci Kmetz  
Danette Mumford – Chair  
Lonnie Riley  
Jamie Masters

**Health/PE/Driver Ed.**

Curt Bunting  
James Bunting  
Mike King  
Mary Jane Megee – Chair  
Debbie Donoway  
Ron Steen

**Agriculture**

Kevin Cordrey – Chair  
Jennifer Lovellette  
Chris Pagan

**JROTC**

Maj. Frank Ryman  
Mst. Sgt. Mark Sewell

**JDG**

John Edgar

**Music**

Mark Marvel – Chair

**Social Studies**

James Buffington  
Steve Carey  
Kurt Howell  
Mike Norton – Chair  
Tim Ferry  
Paul Kmetz

**Foreign Language**

Sandy Browning  
Brooke Evans – Chair  
Carla Phillips  
Tanya Schuler  
Tom Messino

**Business**

Diane Durham  
Bennett Murray – Chair

**Paraprofessionals**

Ramona Gullette  
Norman Anderson  
Missy Lewis  
Owen Morris

**Art**

Cathy Macklin – Chair

**Support Personnel**

Nurse: Sue Grant  
Wellness Center Practitioner: Vanessa Adams  
Librarian: Elizabeth Tiffany  
Career Coordinator: Thomas Mahler  
Intervention Specialist: Jason Glenn  
Student Advisor: Harold Walters  
Hall Monitor: Elaine Marvel  
School Psychologist: Chuck Rechsteiner  
Secretaries: Bertha M. Cordrey  
Mary Anne Cordrey  
Cathryn McCabe  
Anne Murray

## **INDIAN RIVER HIGH SCHOOL MISSION STATEMENT**

**INDIAN RIVER WILL BE A SAFE, COMPREHENSIVE HIGH SCHOOL THAT EMPOWERS ALL STUDENTS TO MAKE CHOICES AND MEET THE ACADEMIC AND SOCIAL CHALLENGES OF THE 21<sup>ST</sup> CENTURY.**

### **STATEMENT OF PHILOSOPHY**

**WE ARE COMMITTED TO A PROGRAM OF QUALITY EDUCATION. IT IS OUR BELIEF THAT THE EDUCATION OF THE STUDENT REQUIRES THE ACQUISITION OF KNOWLEDGE AND THE DEVELOPMENT OF MENTAL AND MORAL ATTITUDES THAT ENCOURAGE A STUDENT TO STRIVE TO ACHIEVE HIS FULL POTENTIAL, FIND MAXIMUM SATISFACTION IN LIFE, AND FUNCTION AS A USEFUL AND CONTRIBUTING CITIZEN OF OUR DEMOCRATIC SOCIETY.**

**WE BELIEVE THAT IT IS A FUNCTION OF INDIAN RIVER HIGH SCHOOL TO PROVIDE, WITHIN THE CAPABILITIES OF ITS RESOURCES, A PROGRAM FOR EACH STUDENT THAT IS RICH IN ACADEMICS AND WHICH ENGENDERS A POSITIVE CONCEPT OF SUCCESS.**

**WE BELIEVE THAT EDUCATION CAN BE ACQUIRED ONLY THROUGH EFFORT, AND THE ONLY ACCEPTABLE IDEAL OF EDUCATION IS THAT WHICH SEEKS THE MAXIMUM ACADEMIC DEVELOPMENT OF EVERY INDIVIDUAL. WE EXPECT THAT ACHIEVEMENT WILL VARY. WE INSIST UPON EFFORT AND STRIVE FOR THE MAXIMUM OF ACHIEVEMENT OF OUR STUDENTS.**

**WE BELIEVE IN COEDUCATIONAL SECONDARY SCHOOLS AND THAT SUCH SCHOOLS, OPEN TO A VARIED DISTRIBUTION OF INTERESTS AND ABILITIES, ARE BOTH EDUCATIONALLY AND SOCIALLY SOUND. WE BELIEVE IN SURROUNDING OUR STUDENTS WITH SUCH CULTURAL ACHIEVEMENTS OF CIVILIZATION AS ITS ART, DRAMATICS, LITERATURE, AND MUSIC, ENCOURAGING THE WIDEST PARTICIPATION BY ALL STUDENTS IN THEIR PERFORMANCE OR CREATION.**

**WE BELIEVE SCHOOLS SHOULD BE CLOSE TO THE NEEDS OF THE COMMUNITY OF WHICH THEY ARE A PART. WE ENCOURAGE, WHENEVER POSSIBLE, ACTIVE PARTICIPATION IN THE AFFAIRS OF OUR LOCAL TOWNS AND OUR STATE.**

**IT IS ALSO OUR BELIEF THAT BOTH COMPETITION AND COOPERATION ARE ESSENTIALS OF OUR WAY OF LIFE, AND WE SEEK TO ENCOURAGE BOTH. WHETHER AWARDS ARE FOR SCHOOL SERVICE OR CITIZENSHIP, FOR ATHLETIC OR SCHOLASTIC ATTAINMENT, WE CONSIDER THE EXTOLLING OF EXCELLENCE BOTH USEFUL AND DEMOCRATIC.**

## Graduation Requirements

English	4 credits
Social Studies	3 credits
Math •	3 credits
Science	3 credits
Computer Literacy ••	1 credit
Physical Education	1 credit
Health	0.5 credits
Career Pathways	3 credits
<u>Related Coursework*</u>	<u>4 credits</u>

**Total Credits                      22.5 credits**

- Students who successfully complete Honors Algebra I in the eighth grade will receive a math credit toward graduation.
- This credit can be earned at the end of the eighth grade by successfully completing the Selbyville Middle School computer exploratory course in grades 6, 7, and 8.

### \*Related Coursework

According to Indian River School District Policy, students are required to take two additional elective courses from their major cluster and two approved elective courses from another area for their related credits. Indian River High School offers a program to some students who qualify called “Jobs for Delaware Graduates”. Students who are enrolled in this program may use all four years of JDG as their four related credits. College bound students may elect to earn an **Academic Prep Minor** by completing their four credits in the areas of foreign language, math, and science. Any math and science courses used toward this minor must be in addition to the district math requirements and be weighted 1.1 or higher. Students who earn an Academic Prep Minor will receive a gold seal on their high school diploma.

**Students who do not meet the standards on the eighth grade Delaware State Test may have to be enrolled in our Academic Institute and take additional course work in the areas of reading, and/or mathematics during their ninth and tenth grade years at Indian River High School. Students who take the additional Academic Institute coursework may use those credits toward their related credits for graduation.**

# Science Cluster

The science cluster was designed to provide a major area of study for those students who are interested in mathematics and science. There are two majors in this cluster: (1) Integrated Math and Science and (2) Agricultural Sciences.

## Integrated Math and Science Major

Those students who select the Integrated Math and Science major are required to take an academically rigorous selection of required and elective courses in the areas of math and science. This major, unlike the other program majors, requires the student to complete three high level math and science courses during their senior year. Also, students must successfully complete the following coursework prior to their senior year: Algebra I, Algebra II, Geometry, Academic Physical Science, Academic Biology, Academic or Honors Chemistry. This program was designed for those students who are seeking a career in medicine, engineering, education, or any other field requiring a heavy load of mathematics and science. The courses taken for this major must be a combination of both math and science. The three courses for the major must be taken from the chart below:

<b>Integrated Math/Science Major</b>
<p style="text-align: center;"> <b>Advanced Algebra/Trigonometry</b>  <b>Honors Advanced Algebra/Trigonometry</b>  <b>Calculus</b>  <b>Physics</b>  <b>Anatomy and Physiology</b>  <b>Probability and Statistics</b>  <b>Advanced Placement Chemistry</b>  <b>Biology II</b>  <b>Academic Challenge 4</b>  <b>Academic Challenge 5</b> </p>

## Related Coursework

Students who select this major are required to take four additional related courses. Students may select two of these courses from the Science Cluster and two other approved courses from another area to satisfy this requirement or complete another program as described under "Related Coursework" on page 4. The two courses from the Science Cluster may be taken from either of the two majors in this cluster. The guidance counselor will assist the student in selecting the two additional related courses outside the Science Cluster.

## Program Accomplishments

- Our Math Team finished in 2<sup>nd</sup> place out of 32 schools in the Salisbury State University Eastern Shore Math Competition
- Our Math League Team has finished first or second in the region for the past two years
- Our Science Olympiad Team finished in 1<sup>st</sup> place in Sussex County with numerous students winning state level medals
- Our science team finished in 1<sup>st</sup> place in the Academic Challenge "Whatchamacallit" competition

- Two of our seniors finished in 1<sup>st</sup> and 3<sup>rd</sup> place in the American Chemical Society High School Chemistry Competition
- Our Envirothon Team finished in 1<sup>st</sup> place in the Sussex County Envirothon Competition
- Our science program was accepted to the National Science Foundation Delaware High School Reform Grant (total of \$400,000) allowing our school to be on the cutting edge of science education and technology
- Numerous students have been accepted to MIT, Penn State, Drexel, University of Delaware, University of Pharmacy and Sciences at Philadelphia, and numerous other institutes and colleges majoring in chemistry, pre-med, pharmacy, mathematics, and engineering
- Probe technology was excessively used in all science classes
- A brand new math lab was completed with software for SAT Prep and Accelerated Math
- Our math department was awarded a \$12,000 MBNA Grant for the Scholastic SAT Preparation Program

## Future Goals and Plans

- Our science program will incorporate additional lab time for the upper level science courses
- Develop a strong integrated 9<sup>th</sup> grade program laying the physical science foundations for further study in earth science, biology, chemistry, and physics
- Expand the number of sections of the SAT Prep course from two sections to four.
- Provide a math teacher assigned to the Math Lab to help students individually prepare for the DSTP math assessment

## Agricultural Sciences Major

The Indian River High School Agriculture department has developed a program that offers students a wide-range of opportunities. The Agriculture department consists of three major areas of study: (1) Animal Science, (2) Plant Science, and (3) Conservation. Each major program has been designed to offer students hands-on activities to enhance their understanding of agricultural sciences. Students will have the opportunity to work in the outside classroom area that contains a 15' by 50' trout pond, as well as, areas for hydroponics, poultry, quail, and a large green house.

Students majoring in an Agricultural Sciences are urged to join our chapter of the Future Farmers of America (FFA). Students involved in the FFA will develop leadership skills and learn how to be part of a problem-solving team. The FFA plans on becoming very active within the community and with the design of the outdoor areas of our new high school. Students in this program will compete at the local, state, and possibly national level in many career development activities, such as, Agriculture sales, Animal Judging, and Flower Arranging. Students gain excellent hands-on experience in this major area. This program was designed for those students who are seeking a career in farm management, wildlife management, natural resources and conservation, or any other field relating to agriculture. The three courses for the major must be taken from the chart below:

**Agricultural Sciences Majors**

<b>Agri-Science Animal</b>	<b>Agri-Science Plant</b>	<b>Agri-Science Conservation</b>
<ul style="list-style-type: none"> <li>• Intro to Agriculture</li> <li>• Animal Science I</li> <li>•• Animal Science II</li> <li>••• Aquaculture</li> </ul>	<ul style="list-style-type: none"> <li>• Intro to Agriculture</li> <li>• Greenhouse Management</li> <li>•• Landscape Design</li> <li>••• Aquaculture</li> </ul>	<ul style="list-style-type: none"> <li>• Intro to Agriculture</li> <li>• Natural Resources</li> <li>•• Forestry/Wildlife</li> <li>••• Aquaculture</li> </ul>

## Related Coursework

Students who select this major are required to take four additional related courses. Students may select two of these courses from the Science Cluster and two other approved courses from another area to satisfy this requirement or complete another program as described under "Related Coursework" on page 4. The two courses from the Science Cluster may be taken from either of the two majors in this cluster. The guidance counselor will assist the student in selecting the two additional related courses outside the Science Cluster.

## Program Accomplishments

- Individual students have won first place at the state level Poultry Judging Contest
- The Poultry Judging Team has finished in second place at the state level each of the last two years
- The conservation classes completed the construction of the Quail Pen which is to be used to replenish Quail in our area
- The aquaculture classes for the first time raised and harvested 100 rainbow trout to area markets
- A hen laying area was added to the outdoor classroom laboratory giving students the opportunity to study and market poultry products
- The aquaculture classes are raising Koi in the indoor tank to study the growth and habits of ornamental fish
- The landscaping and greenhouse classes have been active in landscaping the school grounds

## Future Goals and Plans

- The conservation classes will erect a windmill to study an alternate way to produce electricity and use this energy to supply power to the outdoor lab area.
- Construct an Agriculture computer lab that will allow for the use of probe technology
- Become more active in the Future Farmers of America (FFA) at the state and regional level
- Structure the agriculture classes to become more business oriented in marketing our products.

Notes or Questions:

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# Business Cluster

The business cluster was designed to provide a major area of study for those students who are interested in finance and software applications. There are two majors in this cluster: (1) Accounting and Finance and (2) Business Applications.

## Accounting and Finance Major

The business administration and accounting pathway is designed for students who will be utilizing learned skills immediately in the workforce and for those students who will pursue like studies at a post-high school level. The accounting strand consists of three progressive classes. The first is Introduction to Accounting in which students will learn accounting theory and accounting procedures for proprietorships and partnerships. The second course in the pathway is Advanced Accounting. This course expands on principles studied in the first year and emphasizes accountant decision making while analyzing financial reports. The final course is Computerized Accounting where the students utilize accounting knowledge and combine it with the latest information processing systems to produce finished reports. This major was developed for those students who are interested in a career in accounting, banking, marketing, real estate, and other areas of business.

Accounting and Finance Major	
•	Record keeping
•	Academic Accounting
•	Introduction to Marketing
•	Introduction to Accounting
••	Introduction to Accounting
••	Advanced Accounting
•••	Computerized Accounting

## Related Coursework

Students who select this major are required to take four additional related courses. Students may select two of these courses from the Business Cluster and two other approved courses from another area to satisfy this requirement or complete another program as described under "Related Coursework" on page 4. The two courses from the Business Cluster may be taken from either of the two majors in this cluster. The guidance counselor will assist the student in selecting the two additional related courses outside the Business Cluster.

## Business Applications Major

This major is designed to provide students with a thorough understanding of computer software applications. In the introductory courses students will use Microsoft Word to create letters, memos and reports in proper document format. Students enrolled in the Software Applications course will learn additional word processing skills and how to create spreadsheets and charts for various business applications using Microsoft Excel. In addition, students will create database management systems using Microsoft Access and will create slide show presentations using Microsoft Power Point. The principles and applications introduced in the Computer Software Applications course are expanded in the Advanced Computer Software Applications course to prepare students to pass the MOUS (Microsoft Office User Specialist) Certification Exam. Additional internet projects with business applications are used to

enhance software integration. In the Specialized Information Processing course, students will design web pages using Hypertext Markup Language (HTML) and FrontPage 2000. Students will also learn computer programming using Visual basic 6 and Visual C++ computer languages.

<b>Business Application Major</b>
<ul style="list-style-type: none"> <li>• <b>Word Processing</b></li> <li>• <b>Computer Software Applications</b></li> <li>•• <b>Computer Software Applications</b></li> <li>•• <b>Adv. Computer Soft Applications</b></li> <li>••• <b>Applied Business/Tech Procedures</b></li> <li>••• <b>Specialized Inform Processing</b></li> </ul>

## Related Coursework

Students who select this major are required to take four additional related courses. Students may select two of these courses from the Business Cluster and two other approved courses from another area to satisfy this requirement or complete another program as described under "Related Coursework" on page 4. The two courses from the Business Cluster may be taken from either of the two majors in this cluster. The guidance counselor will assist the student in selecting the two additional related courses outside the Business Cluster.

## Program Accomplishments

- The department has two fully operational labs with up-to-date equipment and software.

## Future Goals and Plans

- Students will have the opportunity to earn MOUS certification
- Students will be active in the Business Professionals of America (BPA) state and national organization.
- The business department will develop a new pathway strand to include Academic Accounting, Introduction to Marketing, and Entrepreneurship and Business finance.
- Offer additional software instruction using Adobe Go Live 5.0 and Quick Books Pro 2000.
- The department will work closely with the area banking industry to bring the banking business to our school business program.

Notes or Questions:

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# Social Service Cluster

The Social Service cluster was designed to provide a major area of study for those students who are interested in community and social services. There are three majors in this cluster: (1) Criminal Justice, (2) JROTC, and (3) Sports Medicine.

## Criminal Justice Major

The Criminal Justice major was designed to define crime and identify sources of criminal law through a variety of resources. A close relationship with the Delaware State Police has been established and a mini police academy is presented during the course. In addition, three field trips are taken to the Delaware State Police Academy, a state prison, and an ongoing local criminal court case. Field trips are used to see the day to day routine of the criminal justice system. Student ride-alongs, with a police officer on patrol, are encouraged after regular school hours.

Lessons involve current criminal investigation techniques, forensics, criminal behavior, and theories about criminal behavior. Students also study law, the courts, and the prison system. Mock trials are conducted in the classroom with advice from the criminal justice community. The three courses for the major must be taken from the chart below:

<b>Criminal Justice Major</b>
<ul style="list-style-type: none"> <li>• Human Studies</li> <li>•• Psychology/Sociology</li> <li>••• Criminal Justice</li> </ul>

## Related Coursework

Students who select this major are required to take four additional related courses. Students may select two of these courses from the Social Service Cluster and two other approved courses from another area to satisfy this requirement or complete another program as described under "Related Coursework" on page 4. The two courses from the Social Service Cluster may be taken from any of the three majors in this cluster. The guidance counselor will assist the student in selecting the two additional related courses outside the Social Service Cluster.

## Program Accomplishments

- The State Police offer a Mini-State Police Academy for all students in the Criminal Justice course.
- Students were exposed to the Ocean City Mounted Police
- Students had the opportunity to see and learn how the State Emergency Center operates by spending a day at their facility
- Police ride-alongs were established for all interested students

## Future Goals and Plans

- Establish a Mock Trial Team
- Develop a visitation schedule for students to attend criminal trials in Georgetown
- Expand the program to incorporate a working relationship with the State Bar Association

- Continue to develop a program involving the state prison system

## JROTC - Marines

JROTC is an acronym for Junior Reserve Officer Training Corps. In the 1960's the government wanted a program that would give the youth of America a sense of patriotism and citizenship. They based the program off the military's ROTC program. ROTC is a college course funded by the government that prepares a student for Officer Candidate School. Junior ROTC follows the same guidelines but it is for high school, not college, and there is no military commitment after you graduate from the program.

At Indian River High School, our program teaches Leadership Education. It is part of the Social Services cluster and can be taken as a four year major or as a related elective. During a normal week, two days consists of lectures on the fundamentals of leadership, hypothetical situations, analyzing decisions made by past and present leaders in our society, and practical application of leadership lessons. One day a week is focused on wearing the Marine Corps uniform, close order drill, and military ceremonies. The next day is spent learning marksmanship basics by shooting air rifles. The last day of the week is spent on physical fitness that includes calisthenics, team games, and cooperative learning activities.

Every year, our program participates in numerous activities outside the classroom that involve planning, organization and participation of the students. We host a Marine Corps Birthday Celebration and Dance, an Awards Ceremony, and an end of the school year trip to Washington, D.C. to tour the Memorials and watch the Marine Corps Band and Silent Drill Team perform. Community service activities are planned throughout the year. We have competitive teams that provide wholesome after school activities. These include our Color Guard and Drill Team who perform in parades and local civic functions and compete in Drill Meets. We also have an Air Rifle Team that competes in League, Regional, and National Matches. All of these teams are considered varsity sports.

Lastly, as students prove themselves in the program, they may be given a leadership position. Generally, they will start out as a Squad Leader (in charge of 6 – 9 students) and can move up in rank to an Officer (in charge of 20-30 students or more). A student in a leadership position must continually apply lessons learned in class to daily situations. This facet is an immense benefit to all students regardless of what they choose to do after high school. Our program instills a sense of pride and self-respect for every student who completes the JROTC program. Students who enroll in this major must take three sequential courses from the table to below

<b>JROTC Major</b>
<ul style="list-style-type: none"> <li>• Leadership Education I (JROTC)</li> <li>•• Leadership Education II (JROTC)</li> <li>••• Leadership Education III (JROTC)</li> </ul>

### Related Coursework

Students who select this major are required to take four additional related courses. Students may select two of these courses from the Social Service Cluster and two other approved courses from another area to satisfy this requirement or complete another program as described under "Related Coursework" on page 4. The two courses from the Social Service Cluster may be taken from any of the three majors in this cluster. The guidance counselor will assist the student in selecting the two additional related courses outside the Social Service Cluster.

## Program Accomplishments

- Our JROTC program has logged a total of over 1602 hours of community since it was started four years ago.
- The students in our program have earned over \$26,900 in scholarships over the past four years
- Our competition teams have participated in 18 interscholastic events winning 1<sup>st</sup> place in four events and placing 2<sup>nd</sup> in four events
- Our Drill and Color Guard units have participated in 23 parades, 20 Color Guard events, and 13 field trips
- The entire JROTC unit has been very active raising money for the Adopt-A-Family and Tots-For-Tots Programs, and actively participates in the Adopt-A-Highway Program.

## Future Goals and Plans

- Establish a mentoring program with the local veterans organizations
- Host a State Drill Meet, State Junior Olympics Air Rifle Tournament, and County Field Meet
- Continue to raise monies for the Semper Fidelis Scholarship Fund
- Build an indoor air rifle range, obstacle course, and ropes challenge course

# Sports Medicine Major

This major is structured to encourage and implement programs to meet the diverse interest and career opportunities in Exercise Physiology and Sports medicine. The program will promote an appreciation for involvement in sports and exercise and the role these activities can play in shaping one's lifestyle. Students gain first hand knowledge on the techniques of physical training along with the knowledge of the prevention and treatment of athletic injuries. Students will work closely with the physical training instructor and the athletic trainer to cover the goals and objectives of the program.

Sports Medicine Major
<ul style="list-style-type: none"> <li>• Introduction to Physical Fitness</li> <li>•• Exercise Physiology</li> <li>••• Sports Medicine</li> </ul>

## Related Coursework

Students who select this major are required to take four additional related courses. Students may select two of these courses from the Social Service Cluster and two other approved courses from another area to satisfy this requirement or complete another program as described under "Related Coursework" on page 4. The two courses from the Social Service Cluster may be taken from any of the three majors in this cluster. The guidance counselor will assist the student in selecting the two additional related courses outside the Social Service Cluster.

## Program Accomplishments

- Our state-of-the-art Training Facility was completed with all new fitness equipment thanks to a massive amount of community support



# Technology Education Cluster

The technology education cluster focuses on the skills needed to function in the modern technologies such as design briefs and the use of a CAD system. The architectural component deals with drafting and construction principles. This cluster currently contains only the Technical Major.

## Technology Education Major

The technology education department strives to acquaint the student with material, basic tools, and equipment, to develop the skill and dexterity necessary for their use. This will provide basic exposure, work attitudes, and critical thinking skills needed to solve problems that they may encounter in industry or further training. This pathway was developed for those students interested in a job related to architecture, mechanical engineering, contracting, surveying, drafting, and the construction trades.

Technology Education Major
<ul style="list-style-type: none"> <li>• Tech Systems</li> <li>• Communication Tech Systems</li> <li>•• Physical Technologies</li> <li>•• Architecture/Communication Systems</li> <li>••• Tech Industry</li> <li>••• Communication Design</li> </ul>

## Related Coursework

Students who select this major are required to take four additional related courses. Students may select two of these courses from the Technical Cluster and/or Science Cluster and two other approved courses from another area to satisfy this requirement or complete another program as described under "Related Coursework" on page 4. The two courses from the Technical and/or Science Cluster may be taken from any majors in these two clusters. The guidance counselor will assist the student in selecting the two additional related courses outside the Technical Cluster.

## Program Accomplishments

- The students in the cluster have a rich winning tradition in the Technology Student Association State Competitions
- The Stock Market Team finished in 5<sup>th</sup> place at the statewide competition last school year.

## Future Goals and Plans

- Expand the curriculum by adding new units such as weather, solar energy, logo/logo, and computer Graphics

Notes or Questions:

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# Arts Cluster

The arts cluster was designed to provide a major area of study for those students who are interested in visual, performing or communication arts. There are three majors in this cluster: (1) Visual Arts, (2) Performing Arts, and (3) Communication Arts.

## Visual Arts Major

The visual arts major was designed to help students focus on the necessary skills needed to create art for aesthetic and commercial purposes. Though the years we have enjoyed the number of talented students who have been successful in many exhibits and contests and who are now studying art in college. This program will expose students not only to creating beautiful artwork but also on developing a lifelong career by enhancing their talents. All classes are structured to be sequential in nature so that students can utilize the necessary skills in the numerous competitions held for students in the higher-level courses. This major was designed for those students who are seeking a career in the areas of commercial art, graphic design, graphic arts, media sales, and basic design.

Visual Art
<ul style="list-style-type: none"> <li>• Design</li> <li>•• Drawing and Painting</li> <li>•• Commercial Arts</li> <li>••• Ceramics</li> </ul>

## Related Coursework

Students who select this major are required to take four additional related courses. Students may select two of these courses from the Art Cluster and two other approved courses from another area to satisfy this requirement or complete another program as described under "Related Coursework" on page 4. The two courses from the Art Cluster may be taken from any of the three majors in this cluster. The guidance counselor will assist the student in selecting the two additional related courses outside the Arts Cluster.

## Program Accomplishments

- Second place finish in the state for the Division of Vocational Rehabilitation Competition
- First place in the state for the Pregnancy Prevention Poster Competition
- First place in county for design of the Delaware Blood Bank Tee-Shirt
- First place in the Indian River School District Nutrition Poster Contest
- Several Honorable mentions in the state Jr. Duck Stamp Competition and the Delaware Foundation of the Visual Arts Competition
- First place finishes in the Voice of Democracy Patriotic Painting Contest and the Wildfowl Art Museum Contests.

## Future Goals and Plans

- Refurbish the airbrush room and compressor
- Encourage all graduating seniors in this pathway program to complete a portfolio containing their work from all four years of high school



- Continue to grow as an art department by using new mediums and techniques to enhance students skills and talents
- Continue to make the surroundings more aesthetically pleasing

## Performing Arts Major

There are three major performing groups at Indian River High School. These groups are the Marching Band, Concert Band, and Chorus. The band performs at the football games, local parades and two major concerts each school year. The chorus performs a Christmas and Spring Concert each year. The band travels each year to a major music festival to perform in a ratings competition with other bands across the United States. Students who are interested in instrumental or vocal music for a career should strongly consider this pathway major.

Music
<ul style="list-style-type: none"> <li>• Band</li> <li>• Choral Union</li> <li>•• Symphonic Winds</li> <li>•• Specialty Choir</li> <li>••• Wind Ensemble</li> <li>••• Canto Singers</li> </ul>

### Related Coursework

Students who select this major are required to take four additional related courses. Students may select two of these courses from the Art Cluster and two other approved courses from another area to satisfy this requirement or complete another program as described under "Related Coursework" on page 4. The two courses from the Art Cluster may be taken from any of the three majors in this cluster. The guidance counselor will assist the student in selecting the two additional related courses outside the Arts Cluster.

### Program Accomplishments

- First place finishes in the Selbyville, Millsboro, and Georgetown Christmas Parades for the past two years
- Received a "Superior" rating at last year's music festival in Canada
- Nine students last year and eleven students this school year received All-State Chorus honors
- Twenty students were selected to this year's Sussex County Honors Band
- Numerous students who selected the performing arts pathway have gone on to major in music at various colleges around the country

### Future Goals and Plans

- The band will travel to Florida next year to participate in the Festival of Bands program
- The band and chorus will strive to increase the number of students who earn All State Band and Chorus honors

## Communication Arts Major

The Communication Arts Major is an exciting pathway filled with many new challenges for those students who wish to enter the digital age. Students in Broadcasting are responsible for presenting the morning announcements via the school TV system. The use of digital 8mm cameras, camcorders, still cameras, iMovie, Adobe Photoshop, Adobe PageMaker and the daily print bulletin serve as the basis for this class.

Students in Graphic Design will learn how to do basic HTML with advanced editors resulting in the maintaining of a personal and business web site. Students in Graphic Design use Adobe Photoshop, Adobe Pagemaker, digital cameras and scanners. The pride of being able to create a web site without a click and point software application is immeasurable.

After students complete Graphic Design, they move on to Computer Aided Graphics and or to Computer Publications, giving them the opportunity to apply their experience in a practical and meaningful way and to further explore more advanced features of HTML, Adobe Photoshop and Adobe Pagemaker. The students in Computer Aided Graphics publish a bi-monthly school newspaper while the students in Computer Publications work on the preparation, promotion and distribution of the school yearbook. Both classes explore more fully the potential of Adobe PageMaker, Adobe Photoshop, digital cameras and scanners.

<b>Communication Arts</b>
<ul style="list-style-type: none"> <li>• <b>Graphic Design I</b></li> <li>• <b>Introduction to Theater</b></li> <li>•• <b>Graphic Design II</b></li> <li>•• <b>Computer Aided Graphics</b></li> <li>•• <b>Computer Publications</b></li> <li>•• <b>Broadcasting I</b></li> <li>••• <b>Adv. Comp. Aided Graph</b></li> <li>••• <b>Adv Computer Public.</b></li> <li>••• <b>Multimedia Productions</b></li> </ul>

## **Related Coursework**

Students who select this major are required to take four additional related courses. Students may select two of these courses from the Art Cluster and two other approved courses from another area to satisfy this requirement or complete another program as described under "Related Coursework" on page 4. The two courses from the Art Cluster may be taken from any of the three majors in this cluster. The guidance counselor will assist the student in selecting the two additional related courses outside the Arts Cluster.

## **Program Accomplishments**

- Students learned how to create and maintain a personal and business web site without the use of point and click software.
- Students in the yearbook class have produced some outstanding layouts for the yearbook 2002 using advanced features of Adobe PageMaker and Photoshop resulting in some pages of extraordinary quality
- Students in the Computer Aided Graphics for the first time made the "Honor Roll" for JS Printing for a job perfectly completed and submitted by using advanced features in PageMaker

## **Future Goals and Plans**

- Register Indian River High School for a school domain

- Fully update the school website on a daily basis
- Introduce students to advanced software such as Dreamweaver and Macromedia Flash
- Purchase of correct hardware that allows printing of: pamphlets, business cards, newsletters, manuals, etc.
- Give students the opportunity to print jobs using commercial printing equipment

Notes or Questions:

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**CURRICULUM COURSE DESCRIPTIONS**

**English Courses**

English is a required subject in grades 9, 10, 11, 12. An attempt is made to develop the pupil's ability to use the language as a tool in understanding and conveying thoughts. Attention is also given to making use of the content of the reading of literature and other material for its possible contributions to the pupil's life. Outside reading is required in each grade level. On the basis of standardized test scores, previous grades, teacher recommendations, and future recommendations, students will be placed in the most appropriate English section. Honor level courses will require a more specific screening process. Instruction will also include preparing students for the Delaware State Test in writing.

**STUDENTS MUST SUCCESSFULLY COMPLETE REQUIRED ENGLISH COURSES FOR EACH GRADE LEVEL BEFORE PROGRESSING TO THE ENGLISH COURSES OF THE NEXT GRADE LEVEL.**

**190 ENGLISH 9 HONORS\*\***

Full Year (1 credit) Grade: 9

Prerequisite: Based on Middle School Performance and "B" Average Required

This course is designed for the highly motivated student who has advanced verbal abilities and skills. Students will study more advanced grammatical constructions for the purpose of learning more about the structure of language. Also, they will concentrate on effective and varied types of paragraph writing and multi-paragraph writing, and vocabulary skills will be emphasized. Literature study will revolve around a general, genre-based approach. Functional skills such as completing applications and various forms will be studied. Additionally, students will pursue independent projects and readings to improve critical and creative thinking. Summer reading is required.

**191 ENGLISH 9 ACADEMIC\***

Full Year (1 credit) Grade: 9

Prerequisite: Based on Middle School Performance

This course is designed for students who have above average abilities and skills. Students continue grammar study with emphasis on more advanced grammatical structures. They will also concentrate on paragraph writing and multi-paragraph writing, which involves various rhetorical modes. Students will continue literature study through an academic approach. Letter writing, application, and other functional skills will be further developed. Additionally, vocabulary skills will be emphasized.

**192 ENGLISH 9 TECHNICAL**

Full Year (1 credit) Grade: 9

Prerequisite: Based on Middle School Performance

This course is designed for the average student. Students will review grammar for the purpose of improving oral and written communications. Students will focus on paragraph and multi-paragraph compositions, and they will improve writing skills through construction of more effective sentences. Reading skills will be developed by reading short stories, autobiographies, poetry, novels and Romeo and Juliet. Additional vocabulary skills will be emphasized.

**193 ENGLISH 9 BASIC**

Full Year (1 credit) Grade: 9

Prerequisite: Based on Middle School Performance

Students will concentrate on spelling, vocabulary, grammar, sentence structure and paragraph development while learning the four types of writing: narrative, expository, comparison/contrast and persuasive. Reading skills will be developed through surveying the literary forms of the short story, poetry, drama and a short novel.

**040 ENGLISH 9**

Full Year (1 credit) Grade: 9

Prerequisite: Approval of IEP Committee

This course is designed to improve writing mechanics, grammar, and spelling skills on an individual basis. Placement will be determined by the student's Individualized Educational Plan (IEP).

### **100 ENGLISH 10 HONORS\*\***

Full Year (1 credit) Grade: 10

Prerequisite: English Teacher Approval and "B" Average Required

This course is designed for the highly motivated student who has advanced verbal abilities and skills. Vocabulary skills will be emphasized, and students will concentrate on composition writing in various rhetorical modes. Literature study will take on a more in-depth approach including independent readings of novels, drama and/or poetry. Additionally, students will pursue library research as well as introduction to research techniques. Summer reading is required to remain in this level.

### **101 ENGLISH 10 ACADEMIC\***

Full Year (1 credit) Grade: 10

Prerequisite: English Teacher Approval

This course is designed for the student who has above average verbal abilities and skills. Vocabulary skills will continue to be emphasized. Students improve writing skills through study of paragraph and writing multi-paragraph compositions. They will continue literature study through a generic approach of world literature and conclude with two dramatic plays, Julius Caesar and Antigone. Additionally, students will pursue library research, as well as introduction to library techniques. Advanced grammatical structures will also be studied.

### **102 ENGLISH 10 TECHNICAL**

Full Year (1 credit) Grade: 10

Prerequisite: English Teacher Approval

This course is designed for the average student who will enter the job market or pursue further schooling in a technical/vocational institution. Students will review grammar skills for the purpose of improving oral and written communications. Students will improve writing skills through construction of more effective sentences and various types of paragraphs. Various letter and business related forms will further develop functional skills. Reading skills will be developed through reading short stories, autobiographies, and Julius Caesar. Also, vocabulary skills will be emphasized.

### **103 ENGLISH 10 BASIC**

Full Year (1 credit) Grade: 10

Prerequisite: English Teacher Approval

Students will concentrate on spelling, vocabulary, grammar, sentence structure and paragraph development while learning the four types of writing: narrative, expository, comparison/contrast and persuasive. Reading skills will be strengthened through surveying the literary forms of the short story, poetry, drama and a short novel.

### **050 ENGLISH 10**

Full Year (1 credit) Grade: 10

Prerequisite: Approval of IEP Committee

The student will work individually on skills in grammar, vocabulary development and spelling. Each student placed in the class will have a program developed to meet his/her own English needs. The work will be presented on his/her appropriate level.

### **110 ENGLISH 11-ADVANCED PLACEMENT\*\***

Full Year (1 credit) Grade: 11

Prerequisite: English Teacher Approval and "B" Average Required

This course is designed for the highly motivated and verbally advanced student who is interested in advanced placement standing in college. Students will concentrate on varied composition writings of literary analysis as well as a research paper. Literature study will reflect historical and/or philosophical periods of America. Also, vocabulary skills will continue to be emphasized. Additionally, students will pursue independent projects and readings for the purpose of improving critical and creative thinking. It is recommended that students take the PSAT and SAT during this year. Summer reading is required.

### **111 ENGLISH 11 ACADEMIC\***

Full Year (1 credit)      Grade: 11  
Prerequisite: English Teacher Approval

This course is designed for the student who has above average verbal abilities and plans to attend college. Students continue composition refinement through analyzing literature and writing a research paper. They will study American literature and trace its development. Vocabulary skills will continue to be emphasized.

### **112 ENGLISH 11 TECHNICAL**

Full Year (1 credit)      Grade: 11  
Prerequisite: English Teacher Approval

This course is designed for the student who has average abilities and who will enter the job market or pursues further schooling in a technical/vocational institution. Students will review grammar and usage to improve oral and written expression. Students will continue composition study by writing multi-paragraph compositions emphasizing organization and clarity. They will study American literature for the purpose of acquiring an over view of our cultural heritage. There is a strong emphasis on vocabulary building and reading in this course.

### **104 ENGLISH 11 BASIC**

Full Year (1 credit)      Grade: 11  
Prerequisite: English Teacher Approval

Students will review the basic concepts of English grammar and reading comprehension. Students will submit several samples of creative writing and technical writing. Vocabulary tests will be given weekly. Students will study American literature for the purpose of acquiring an overview of our cultural heritage.

### **051 ENGLISH 11**

Full Year (1 credit)      Grade: 11  
Prerequisite: Approval of IEP Committee

The student will work individually on skills in grammar, vocabulary development and spelling. Special emphasis will be placed on writing skills. Student will work on developing coherent paragraphs.

### **120 ENGLISH 12-ADVANCED PLACEMENT\*\***

Full Year (1 credit)      Grade: 12  
Prerequisite: English Teacher Approval and "B" Average Required

This course is designed for the highly motivated and verbally advanced student who seeks advanced placement standing in college. Students will concentrate on varied composition writing using sound independent judgment, logic, and argument. One to two research papers are required. Vocabulary skills will continue to be emphasized. Literature study will reflect a refinement of literary analysis and independent evaluation. Independent projects and readings are vigorously pursued. The studies of English literature will include its historical, social and cultural perception. Students are expected to take the SAT and/or ACT during the first semester as well as the Advanced Placement Test during the spring. Summer reading is required.

### **121 ENGLISH 12 ACADEMIC\***

Full Year (1 credit)      Grade: 12

Prerequisite: English Teacher Approval

This course is designed for the student who has above average verbal ability and plans to attend college. Vocabulary skills will continue to be emphasized. Students continue composition refinement through analyzing literature and writing a research paper. They will study English literature. Resume writing and various letters will further develop functional skills. It is recommended that students take the SAT and/or the ACT during the first semester.

### **122 ENGLISH 12 TECHNICAL**

Full Year (1 credit) Grade: 12

Prerequisite: English Teacher Approval

This course is designed for the student who will enter the job market or pursue further schooling in a technical institution. Students will study corporate structure and the necessity of effective communication in the business world. Vocabulary skills will continue to be emphasized. In addition, they will study English Literature, business letters and documents, and other business formats to get an overview of our English language skills in the business world.

### **052 ENGLISH 12**

Full Year (1 credit) Grade: 12

Prerequisite: Approval of IEP Committee

This course will emphasize skills necessary in acquiring a job. Students will work on developing resumes, writing letter of application, filling out job applications and job interview techniques. Students will also work on functional living skills. Skills such as reading leases and contracts and writing a business letter will be developed. Additionally, vocabulary skills will continue to be emphasized.

### **115 READING**

Full Year (1 credit) Grade 9, 10

Prerequisite: Teacher Recommendation or Administrative Placement

This course is designed to develop reading strategies and to improve reading comprehension skills. Students will practice skills such as: identifying main idea and supporting details, sequencing, vocabulary, context clues, drawing conclusions, cause and effect, and fact and opinion. Students will apply comprehension skills by reading and discussing literary, informative, and technical texts.

### **056 READING**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite: Approval of IEP Committee

This course is designed to improve reading comprehension skills. Students will practice skills such as: identifying main idea and supporting details, sequencing, vocabulary, context clues, drawing conclusions, cause and effect, and fact and opinion. Students will apply comprehension skills by reading and discussing a variety of literature.

### **057 READING IN VOCATIONAL STUDIES**

Full Year (1 credit) Grade 10

Prerequisite: Approval of IEP Committee

This course will provide students the opportunity to improve reading skills as related to various careers. Reading may involve technical terminology used by various jobs/careers, as well as improving reading skills for future employment. The first portion of the class will concentrate on Driver's Education and helping the student acquire his or her driver's license.

## **Social Studies Courses**

It is suggested that one credit be earned for graduation in each of the following courses: Civics in the 9th grade, World History in the 10th grade and U.S. History in the 11th grade. 3 credits are required for graduation.

**291 CIVICS ACADEMIC**

Full Year (1 credit)      Grade: 9  
Prerequisite: Enrolled in Academic English

This course involves the study of federal, state, and local government. Also explained is how democratic institutions function in response to the will of the people and how political action is related to the experience of everyday life. The role of political parties and their importance is also examined. The scope of the course explores the American market economy and some of the links between our economy and government. Finally, the role of the United States' foreign policy in the world will be surveyed. This course is designed for the college bound student.

**292 CIVICS GENERAL**

Full Year (1 credit)      Grade: 9  
Prerequisite: Based on Middle School Performance

This course will explore the role and functions of federal, state, and local governments. It also involves the election process, effective and productive citizenship, careers, the economy, world issues, and law issues.

**061 CIVICS**

Full Year (1 credit)      Grade: 9  
Prerequisite: Approval by IEP Committee

This course introduces and identifies the basic principles of citizenship and stresses the basic workings of local, state, and federal governmental bodies. Placement is determined by the student's Individualized Educational Plan.

**234 WORLD HISTORY ACADEMIC**

Full Year (1 credit)      Grade 10  
Prerequisite: Enrolled in Academic English

The main theme of world history is a study of the social, political, and economic systems of cultures around the world. This study will begin with the Middle Ages of Europe until the present day. It includes the "Golden Ages" of Asia and Africa, the Renaissance, the Reformation, the Age of Exploration, the Enlightenment, the Industrial Revolution, Nationalism, Imperialism, and the rise of Totalitarianism and Democracy. Students should gain an understanding of world concepts and greater understanding of themselves and others. This course is strongly recommended for the college bound student.

**235 WORLD HISTORY GENERAL**

Full Year (1 credit)      Grade 10  
Prerequisite: Civics

The course includes the study of the social, political, geographic, and economic factors that have influenced human history from the Middle Ages to the present time. Students should acquire skill and knowledge that will help them to meet the choices and challenges of their times.

**068 WORLD HISTORY**

Full Year (1 credit)      Grade: 10, 11, 12  
Prerequisite: Approval by IEP Committee



Students will be given the basic understanding of the people and events that made history. In addition to names and dates, students will learn how and why the present day world came to be the way it is. Units to be covered: Middle Ages, the Renaissance, Age of Exploration and Conquest, Imperialism, Nationalism, the spread of War and Revolution, and the Postwar World.

### **210 UNITED STATES HISTORY HONORS\*\***

Full Year (1 credit)      Grade: 11  
Prerequisite: Social Studies Department Recommendation

This course is designed for students planning to attend a four-year college. The course will be taught at an accelerated pace and students are assumed to possess a high degree of motivation and must undertake a fair degree of self-guided outside reading in addition to the requirements of the course. In the spring, students might consider taking the U.S. History Advanced Placement test. College credit may be earned by a high performance on the A.P. test.

### **211 UNITED STATES HISTORY ACADEMIC\***

Full Year (1 credit)      Grade: 11  
Prerequisite: Enrolled in Academic English

This course will provide the student with an in-depth chronology of American history from the Reconstruction to the present. It is the story of the rise and development of a free democratic nation in a world community. The political, social and economic growth and development of the nation will be stressed. This course is recommended to eleventh grade students who are college bound.

### **212 UNITED STATES HISTORY GENERAL**

Full Year (1 credit)      Grade: 11  
Prerequisite: Civics and World History

This course reveals the major patterns in American History from 1850 to the present. It is the story of the rise and development of a free, democratic society complicated by the emergence of industrialism. The units are arranged in time sequence beginning with the Civil War and covering major historical events to the present day.

### **064 U.S. HISTORY**

Full Year (1 credit)      Grade: 11  
Prerequisite: Approval by IEP Committee

This course provides the student with a chronological approach to the study of the fundamental events of American history from 1850 to the present. Particular attention is given to social history and the problems of a democratic American society.

### **066 POLITICAL SCIENCE**

Full Year (1 credit)      Grade: 11, 12  
Prerequisite: Approval by IEP Committee

Students will cover the following: American Government, Economics, Rights, Consumerism, and Criminal and Civil Law.

### **236 HUMAN STUDIES**

Full Year (1 credit)      Grade: 9,10,11,12  
Prerequisite: None

This course will provide insight into the seven social sciences and the forces within our society that promotes positive human relationships. This course is designed for students who plan to explore careers that work closely with people such as social work, counseling, teaching, or public policy service.

### **237 PSYCHOLOGY/SOCIOLOGY**

Full Year (1 credit)      Grade: 10, 11,12

Prerequisite: Human Studies

This course is designed to study human development, mental processes, and behavior. The workings of the mind and nervous system, development of personality and emotions, and human relations are specific areas of study. The study of society and social behavior in groups is the second half focus of this course. Students exploring careers in teaching, law enforcement, public service, counseling, and corrections would benefit from this course.

### **238 CRIMINAL JUSTICE**

Full Year (1 credit)      Grade: 11, 12

Prerequisite: Human Studies and Psychology/Sociology

This course will establish a frame of reference by defining crime and identifying sources of criminal law. Lessons will involve current investigative procedures used by detectives and police officers in the handling of crime scenes, methods of interviewing suspects and witnesses, and techniques for gathering and preserving evidence as well as for conducting surveillance. Students will write police reports and establish the modus operandi of the suspect, while applying technical resources available to police officers. The prison system will be examined for its strengths and its problems. The students will study the federal and state court systems and participate in mock trials. The course will also explore crime prevention and corrections

## **Mathematics Courses**

Three full credits of mathematics are required for a student to graduate from the Indian River School District. It is suggested however, that students consider four full credits of math during grades nine through twelve.

### **390 GEOMETRY HONORS\*\***

Full Year (1 credit)      Grade: 9

Prerequisite: Successful completion of Honors Algebra or teacher recommendation

Geometry is the study of polygons, points, lines, planes, and angles. Students learn theorems, definitions, and relationships by applying them to problems. Coordinate geometry, logic, and proofs are learned throughout the course. More advanced topics and more difficult problems may be taught in the honors class than Academic Geometry.

### **391 ALGEBRA I\***

Full Year (1 credit)      Grade: 9

Prerequisite: Based on Middle School Performance

This course includes sets, variables, open sentences, equations, graphs, equations in two variables, the real numbers, quadratic equations, inequalities, functions, area and perimeter formulas, probability and statistics, and variations. This course is designed for college bound students.

### **393 MATH CONNECTIONS I**

Full year (1 credit)      Grade: 9

Prerequisite: Based on Middle School Performance

The course meets the general mathematics requirement for graduation. Math Connections I is an integrated study of probability, statistics, and algebra.

### **073 MATHEMATICS I**

Full Year (1 credit) Grade: 9  
Prerequisite: Approval by IEP Committee

This course meets the general mathematics requirement for graduation. Topics include number systems and properties, square root, measurement, graphs, statistics, introduction to algebra, informal geometry, and applications.

### **300 ALGEBRA II HONORS\*\***

Full Year (1 credit) Grade: 10  
Prerequisite: Completion of Honors Geometry or teacher recommendation

This course is an in depth examination of the topics in Algebra II. Students will be expected to demonstrate an understanding of algebraic Theory. Topics of study include matrices, quadratic equations, functions and polynomials.

### **301 GEOMETRY ACADEMIC\***

Full Year (1 credit) Grade: 10, 11, 12  
Prerequisite: Successful completion of Algebra I

Geometry is the study of polygons, points, lines, planes, and angles. Students learn theorems, definitions, and relationships by applying them to problems. Coordinate geometry, logic, and proofs are learned throughout the course.

### **303 MATH CONNECTIONS II**

Full year (1 credit) Grade: 10  
Prerequisite: Successful completion of Math Connections I

This course meets the general mathematics requirement for graduation. Math Connections II is an integrated study of algebra, geometry, and probability.

### **076 MATHEMATICS II**

Full Year (1 credit) Grade: 10  
Prerequisite: Approval by IEP Committee

This course meets the general mathematics requirements for graduation. Topics include number theory, operations and properties, measurement, integers and their operation, algebra, graphs, probability, geometry, and applications.

### **310 ADVANCED ALGEBRA/TRIG HONORS\*\***

Full Year (1 credit) Grade: 11  
Prerequisite: Completion of Honors Algebra II and Honors Geometry or teacher recommendation

This course is the culmination of all math courses taken up to Algebra II and Geometry. Students will study trigonometric functions, polar coordinates, along with a more intensive study of functions and graphing. Successful completion of this course will prepare the student for any college algebra and trigonometry course or Calculus.

### **311 ALGEBRA II\***

Full Year (1 credit) Grade: 11, 12  
Prerequisite: Successful completion of geometry or teacher recommendation

Algebra II is the recommended third year course designed for the college preparatory students who have completed Geometry. The structure of mathematics is emphasized throughout. Topics of study include matrices, quadratic equations, functions and polynomials.

### **308 BUSINESS MATH**

Full Year (1 credit)      Grade: 11, 12  
Prerequisite: Successful completion of Math Connections I and II

This course is designed for students who need to refine their everyday math skills before entering the world of work. It is a combination of a consumer education course and a math course. It includes basic arithmetic, ratio and proportion, percents, decimals, and simple algebra. Applications and problem solving are emphasized in the areas of transportation, buying food and clothing, housing, budgeting, taxes, consumer credit and bank services, and insurance. This course may be used as a third math credit toward graduation.

### **304 INFORMAL GEOMETRY**

Full Year (1 credit)      Grade: 11, 12  
Prerequisite: Successful completion of Connections I and II

Informal Geometry is a hands-on approach to topics of geometry such as points, lines, planes, angles, triangles and polygons. Students are expected to solve problems using postulates and theorems without emphasis on formal proofs.

### **077 BUSINESS MATHEMATICS**

Full Year (1 credit)      Grade: 11, 12  
Prerequisite: Approval by IEP Committee

This course is designed for students who need to refine their everyday math skills before entering the world of work. It is a combination of a consumer education course and a math course. It includes basic arithmetic, ratio and proportion, percents, decimals, and simple algebra. Applications and problem solving are emphasized in the areas of transportation, buying food and clothing, housing, budgeting, taxes, consumer credit and bank services, and insurance. This course may be used as a third math credit toward graduation.

### **320 CALCULUS AB Advanced Placement\*\***

Full Year (1 credit)      Grade: 12  
Prerequisite: Completion of Honors Advanced Algebra/Trig

This course will cover the same topics as a first semester college calculus course. Students who take this course should consider taking the Advanced Placement Calculus Exam.

### **321 ADVANCED ALGEBRA/TRIG\***

Full Year (1 credit)      Grade: 12  
Prerequisite: Successful completion of Algebra II and Geometry

This course is the culmination of all math courses taken up to Algebra II and Geometry. Students will study trigonometric functions, polar coordinates, along with a more intensive study of functions and graphing. Successful completion of this course will prepare the student for any college algebra and trigonometry course or Calculus.

### **324 PROBABILITY & STATISTICS\***

Full Year (1 credit)      Grade: 12  
Prerequisite: Successful completion of Algebra II.

This is a study of basic probabilistic theory and its application to statistical inference as a basis for decision-making. It is available to students who have satisfactorily completed Algebra II and who exhibit sufficient aptitude to benefit from the course. It has wide applications in many fields such as nursing, medicine, business, psychology, biological sciences, education, etc.

## **Science Courses**

Three credits of science are required by the Indian River School District.

### **491 ACADEMIC INTEGRATED PHYSICAL SCIENCE\***

Full Year (1 credit)      Grade: 9

Prerequisite: Completion of or enrollment in Algebra I

This course is the new ninth grade science course developed to meet the ninth grade science performance indicators. It is structured around physical science in four modules. The first module is an introductory physics module titled "Force and Motion" with transportation as the central theme. An introductory chemistry module titled "Properties of Matter" requires students to investigate the chemical concepts involved in sports drinks and movie special effects. The basic physics and chemistry concepts learned in the first semester are applied to earth science processes and life science in the second semester. Scientific inquiry, experimental design, and technology are woven throughout all science courses at Indian River High School. Since the academic version of this course is more mathematically based, this course is designed for the college bound student.

### **492 GENERAL INTEGRATED PHYSICAL SCIENCE**

Full Year (1 credit)      Grade: 9

Prerequisite: None

This course is the new ninth grade science course developed to meet the ninth grade science performance indicators. It is structured around physical science in four modules. The first module is an introductory physics module titled "Force and Motion" with transportation as the central theme. An introductory chemistry module titled "Properties of Matter" requires students to investigate the chemical concepts involved in sports drinks and movie special effects. The basic physics and chemistry concepts learned in the first semester are applied to earth science processes and life science in the second semester. Scientific inquiry, experimental design, and technology are woven throughout all science courses at Indian River High School.

### **080 PHYSICAL SCIENCE**

Full Year (1 credit)      Grade: 9

Prerequisite: Approval by IEP Committee

This course introduces students to such physical science topics as: scientific reasoning, magnetism and electricity, communication, environmental energy, and mixtures and solutions. Placement is determined by the student's Individualized Education Plan.

### **401 BIOLOGY ACADEMIC\***

Full Year (1 credit)      Grade: 10, 11, 12

Prerequisite: Recommendation of science department

Academic Biology is a standards based, comprehensive life science course that is designed for students who have demonstrated above average achievement and plan to attend college. Coursework includes the study of the substances found in living organisms. The chemical reactions underlying life processes, the study of the structure and function of cells and their organelles through experimental methods, how characteristics are transmitted from one generation to the next, and the study of the complex process by which those characteristics change over many generations. Through experimentation and the development of inquiry skills, the student will have a methodical understanding of how living things work.

**402 BIOLOGY GENERAL**

Full Year (1 credit) Grade: 10, 11, 12

Prerequisite: None

General Biology is a standards based, comprehensive life science course. Coursework includes the study of the substances found in living organisms, the chemical reactions underlying life processes, the study of the structure and function of cells and their organelles through experimental methods, how characteristics are transmitted from one generation to the next, and the study of the complex process by which those characteristics change over many generations. Through experimentation and the development of inquiry skills, the student will have a methodical understanding of how living things work.

**081 BIOLOGY**

Full Year (1 credit) Grade: 10, 11, 12

Prerequisite: Approval by IEP Committee

This basic biology course deals with meeting general competencies in the area of life science. Some laboratory work is required.

**410 HONORS CHEMISTRY\*\***

Full Year (1 ½ credits) Grade: 10, 11

Pre requisite: Academic Biology, Algebra I, Algebra II, (all with a "B" or better), Recommendation by Science Department, and completion of a summer packet.

Honors Chemistry is a rigorous first year chemistry course designed to lay a foundation of chemical knowledge to be expanded upon in a subsequent course, Advanced Placement Chemistry. Students taking Honors Chemistry must have a strong commitment to learning at an accelerated pace. Students who are most successful in this class are in an accelerated math track and should be proficient in Algebra II. Topics of study include atomic and molecular structure, chemical reactions, stoichiometry, thermochemistry, gas laws, and solution chemistry. Success in this course requires a strong mathematical background, the ability to solve problems creatively, logical reasoning ability, and the ability to learn in both group and independent settings, superior work ethic, and a high level of commitment to academic excellence. An understanding of inquiry and experimental design is crucial to laboratory success. Formal laboratory reports are required to be kept in a quad-ruled laboratory notebook and are held to college level standards. This class meets for an additional period every other day for extended lab work and problem solving sessions.

**416 CHEMISTRY ACADEMIC\***

Full Year (1 credit) Grade: 11, 12

Prerequisite: Academic Physical Science, Academic Biology and Algebra I (both with a "C" or better), recommendation of the Science Department, and completion of a summer packet.

Academic Chemistry is a rigorous course for the student who has demonstrated advanced academic ability and is planning to attend college. Most students enrolled in this course are juniors. The course builds upon the knowledge and skills acquired during the 9<sup>th</sup> and 10<sup>th</sup> grade standards based courses; therefore, it is expected that the student enrolling in Academic Chemistry has shown mastery of the 9<sup>th</sup> grade Academic Physical Science and 10<sup>th</sup> grade Academic Biology course content. Chemistry is a mathematical science requiring daily use of basic math, data analysis, and algebra. Students taking Academic Chemistry will study atomic and molecular structure, chemical reactions and the related mathematical computations, heat and energy flow during chemical reactions, solutions, and acid-base chemistry. Success in Academic Chemistry depends upon skills and knowledge learned in previous science courses, mathematical ability, logical reasoning and problem solving skills, work ethic and organization, and commitment to academic achievement. As with all science courses at Indian River High School, inquiry and effective experimental design are a part of all laboratory work. Formal laboratory reports are a required component of this course.

**412 ENVIRONMENTAL SCIENCE**

Full Year (1 credit) Grade: 10, 11, 12

Prerequisite: Successful completion of Physical Science and Biology

The Environmental Science course is structured to develop student observation skills and awareness of their natural surroundings. Course participants will learn how and why it is important to recognize and solve environmental problems and the economic significance of a degraded versus an enhanced environment. The Environmental Science curriculum focuses on the life science and the relationship to the physical world. Varied ecosystem dynamics, environmental law, methods of environmental interpretation, and water quality issues are some of the major topics researched. The course is interesting because students are required to take a "hands-on" inquiry based approach. Students will be influenced to become tomorrow's caretakers of the Earth.

### **082 ENVIRONMENTAL SCIENCE**

Full Year (1 credit)      Grade: 11, 12  
Prerequisite: Approval by IEP Committee

This course will introduce students to the basics of environmental science. Areas to be covered will be ecosystems, land use, water, energy, and changing populations. The earth science portion of the course will cover such topics as the earth, planets, atoms, oceans, and climate.

### **421 PHYSICS\***

Full Year (1 credit)      Grade: 12  
Prerequisite: Algebra II and enrollment in or completion of Advanced Algebra and Trig. and teacher recommendation.

This is a college preparatory course introducing the study of classical and modern physics. Classical physics includes mechanics (study of forces and the effects produced by forces), heat, sound, light, magnetism and electricity. Modern physics is concerned with the structure and properties of atoms and their nuclei, electronics and the newer theories of the nature of light.

### **426 ANATOMY AND PHYSIOLOGY\***

Full Year (1 credit)      Grade: 12  
Prerequisite: Permission of science department and successful completion of Biology and Chemistry, or Honors Chemistry.

This is a rigorous course designed for those students who intend to pursue biology or health related fields in college. Topics covered will include anatomy and physiology of human diseases, and the use of medical terminology in health related fields.

### **436 ADVANCED PLACEMENT CHEMISTRY\*\***

Full Year (1 ½ credit)      Grade 11, 12  
Prerequisite: Algebra I, Honors Chemistry ("C" or better), recommendation of Science Department, and completion of a summer packet.

Advanced Placement (AP) Chemistry is a college level course taught by a qualified instructor trained by the College Board. Coursework from Honors Chemistry is briefly reviewed and then followed by kinetics, equilibrium, solubility equilibria, acid-base equilibria, thermodynamics, nuclear chemistry, and organic chemistry. Laboratory work is continued in the same manner as in Honors Chemistry and a college level text selected from the list of recommended text provided by the College Board is used. The primary goal of this course is to prepare the student to pass the national AP Chemistry exam given in May. Passing this exam earns a student eight college credits in chemistry at most universities. Like the Honors Chemistry class, this class meets for an additional period every other day for extended laboratory work and problem solving sessions.

### **415 BIOLOGY II\***

Full Year (1 credit)      Grade: 12

Prerequisite: Successful completion of Biology, Environmental Science and/or Chemistry. A teacher recommendation for this course is also required.

This course is an interactive inquiry based laboratory science designed for the college bound student. Students will be required to complete a multitude of laboratory and field investigations designed to develop student understanding of biological concepts and scientific procedure in a practical and applied manner. Students are evaluated with performance assessments on the ability to implement scientific procedure, generate and evaluate scientific data, and determine conclusions. The various projects assigned to the students will be provided and recommended by The Delaware Standards of Instruction as well as local colleges and universities. The instructor provides all technical support.

### **Foreign Language Courses**

Foreign Language Courses are open to those who are interested in acquiring a basic knowledge of a foreign language whether for pleasure or career purposes. Two years of study of the same foreign language at the high school level meet most **minimum** college entrance requirements. Many colleges strongly recommend continued study into the third and fourth year.

#### **511 FRENCH I\***

Full Year (1 credit)      Grade: 9, 10, 11, 12  
Prerequisite: None

This college preparatory course is intended for the student who has not been exposed to the language, or for the one who needs background for advancing to French II. The emphasis is on spoken and oral comprehension and the end positive results are achieved through conversations and vocabulary growth. Basic grammatical structures are introduced and reinforced with oral questions and answers. Grammatical structures are explained in English to ensure proper understanding. The pupil also learns about French culture by readings, videos, class reports, and individual projects.

#### **512 FRENCH II\***

Full Year (1 credit)      Grade: 9, 10, 11, 12  
Prerequisite: Successful completion of French I

The second level of French is one that deals with reading and answering questions in French. Cultural aspects are integrated throughout the program. Questions are asked and may be oral or written. Grammar is reviewed and new structures are introduced. Students will demonstrate their understanding by using concepts in sentences and paragraphs. Conversations are used to bring out the interest of each pupil and build one's own ideas in French. The course is taught in French and English.

#### **513 FRENCH III\***

Full Year (1 credit)      Grade: 10, 11, 12  
Prerequisite: Successful Completion of French I and II

French III is an intermediate class that is open to students who have successfully completed the second level. Grammar is reviewed and new concepts are introduced. The student is also exposed to a wide variety of French cultures. Reading with greater comprehension and accurate pronunciation are emphasized. Students are encouraged to speak using class vocabulary to reflect their personal opinions about a variety of subjects. Writing skills are also studied. The French language is used as much as possible.

#### **514 FRENCH IV\***

Full Year (1 credit)      Grade: 11, 12



Prerequisite: Successful completion of French III

French IV is an advanced intermediate class open to students who have successfully completed Level III. Grammar is thoroughly reviewed and advanced grammar is introduced. Students are encouraged to speak using class vocabulary to reflect their personal opinions about a variety of subjects. The class is taught in French as much as possible.

### **521 SPANISH I\***

Full Year (1 credit)      Grade: 9, 10, 11, 12

Prerequisite: None

This college preparatory course is intended for the student who has not been exposed to the language, or for the one who needs background for advancing to Spanish II. The emphasis is on spoken and oral comprehension and the end results are achieved through conversations and vocabulary growth. The student is exposed to Spanish culture through dialogues and cultural notes included in the text. Basic grammatical structures are introduced and reinforced with oral questions and answers. Grammatical structures are explained in English to ensure proper understanding.

### **522 SPANISH II\***

Full Year (1 credit)      Grade: 9, 10, 11, 12

Prerequisite: Successful Completion of Spanish I

Spanish II continues to offer students the opportunity to acquire basic skills in the language. Basic grammar is reviewed and new structures are studied. This course expands the cultural information, vocabulary and skills learned in the first level. Listening and speaking skills are emphasized, as well as, written and translation skills. This course is taught in Spanish and English.

### **523 SPANISH III\***

Full Year (1 credit)      Grade: 10, 11, 12

Prerequisite: Successful completion of Spanish II

Spanish III is an intermediate class open to students who have successfully completed the second level with a "C" or better. It is taught in Spanish and English. Grammar is strongly emphasized and new concepts are introduced. The student is also exposed to a wide variety of Spanish cultures. Reading with speed, greater comprehension and accurate pronunciation are emphasized. Students are encouraged to speak using class vocabulary to reflect their personal opinions about a variety of subjects. Writing skills are also studied.

### **524 SPANISH IV\***

Full Year (1 credit)      Grade: 11, 12

Prerequisite: Successful completion of Spanish III with a 75% or higher

This advanced grammar course is intended for those students who wish to refine their grammar skills in Spanish. This college preparatory course will explore the more difficult grammar points using grammar exercises, translations, and conversation. Writing, listening and speaking skills will be explored in the second half of the year.

### **525 SPANISH LITERATURE**

Full Year (1 credit)      Grade: 12

Prerequisite: Successful completion of Spanish III with a 75% or higher and teacher recommendation

This course is intended for those students who have successfully completed their third year of Spanish. It can be taken individually or in conjunction with the standard Spanish IV class. This advanced course will explore Spanish literature through reading short stories, poems and novels all in the target language. The authors of those novels will be studied as well. This course is intended for those students who would like to further their knowledge of Spanish through reading, translating and analyzing literature.

## **Physical Education, Health, and Driver Education**

One full credit of physical education and 1/2 credit of health are required for graduation. It is recommended that 1/2 credit in physical education should be earned in 9th grade and 1/2 credit in physical education should be earned in 10th grade.

### **939 HEALTH**

Half-Year (1/2 credit) Grade: 9, 10, 11, 12

Prerequisite: None

This course will touch on areas such as substance abuse, self-esteem, decision-making, disease prevention and control, mental health, human sexuality, environment and heredity, body systems, nutrition and exercise, health careers and services. **HEALTH IS REQUIRED FOR GRADUATION.**

### **909 PHYSICAL EDUCATION**

Half-Year (1/2 credit) Grade: 9

Prerequisite: None

Students will participate in activities that include team and individual sports. This course provides vigorous physical play, social development, and the opportunity to learn leisure time activities with a change from the regular classroom atmosphere. Each student will dress, participate, and shower as required. **THIS COURSE IS REQUIRED FOR GRADUATION.**

### **900 PHYSICAL EDUCATION**

Half-Year (3/4 credit) Grade: 10

Prerequisite: None

**THIS COURSE IS REQUIRED FOR GRADUATION.** It includes team and individual sports activities to develop physical fitness through vigorous activities, social development through the give and take of sports, an opportunity to learn leisure time activities and a change from the regular classroom atmosphere. Each student will dress, participate, and shower as required.

### **938 INTRODUCTION TO EXERCISE AND SPORT PHYSIOLOGY**

Full Year (1 credit) Grade 9, 10

Prerequisite: None

This course addresses the concerns of how the body adapts to the stress of exercise, more specifically, the problems unique to sports. Students will learn the benefits and principles of building strength and muscular endurance through basic and advanced techniques.

### **440 EXERCISE PHYSIOLOGY**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite: Human Studies

This course is structured to encourage and implement programs to meet the diverse interest and career opportunities in Exercise Physiology. The major goal is to promote an appreciation for involvement in sports and exercise and the role these activities can play in shaping one's lifestyle.

### **441 SPORTS MEDICINE**

Full Year (1 credit) Grade: 11,12

Prerequisite:

This course is designed as the art and science of the prevention and management of athletic injuries on all levels. The program involves everyone from the athlete, to parents and coaches, to the athletic trainer, physical therapist, and physician. It is designed to prepare students to help all athletes, young and old, participate in their sport safely and to their greatest potential. The goal of this course will be to train students to help the injured athlete to return to their previous level of performance as quickly and as safely as possible.

**975 DRIVER EDUCATION**

Nine weeks alternates with physical education (1/4 credit)

Grade: 10

Prerequisite: None

This course emphasizes a feeling of personal responsibility for safety on the streets and highways. Students have an opportunity to learn the fundamentals of safe motor vehicle operation in the classroom and behind the wheel. A minimum of thirty classroom hours and fourteen classroom hours of on-the-road training. By State law it is a required course in order to get your license at age 16 and/or before the age of 18.

**Jobs for Delaware Graduates**

2 Credits in JDG can meet a student's "related" credit requirements.

**987 JDG GRADE 9**

Full Year (1 credit) Grade: 9

Prerequisite: Approval by DCA Committee

The JDG four-year Program begins at this grade with training designed to help students establish goals to improve their class ranking and develop better self-esteem. Classroom activities include communication skills, decision-making, study habits, memory skills, and values assessment. JDG students are eligible for membership in the Delaware Career Association (DCA), a youth organization that provides opportunities for leadership training. JDG Students must be enrolled under Department of Labor guidelines according to J.T.P.A. criteria.

**988 JDG GRADE 10**

Full Year (1 credit) Grade: 10

Prerequisite: Approval by DCA Committee

The 10th grade curriculum stresses growth and development of the individual within a group. Students learn to reach goals within a given time frame and within the constraints of group decision-making. The DCA focuses on responsibilities of committees and civic duties. Curriculum also includes time management, organization, and social awareness. Students receive reinforcement training in self-awareness and development of personal values.

**989 JDG GRADE 11**

Full Year (1 credit) Grade: 11

Prerequisite: Approval by DCA Committee

The 11th grade curriculum stresses personality and social development. Emphasis will be placed on personality development, money management, study skills, values clarification, remediation, and social development. The purpose of this course is to help the student develop to their fullest potential of leadership, civic, social, and career development.

**990 JDG GRADE 12**

Full Year (1 credit) Grade: 12

Prerequisite: Approval by DCA Committee

The ultimate goal of seniors in the JDG class is to determine from their defined values and goals their career objectives. Student's select a specific job, research its requirements, and establish a plan to obtain the job. Development of personal growth continues as students learn how to succeed in a competitive environment. The DCA provides opportunities to develop career skills. Curriculum also includes job interviews, resumes, effective communication, and job/life survival skills.

**Additional Program Offering****035 CAREER EXPLORATION**

Full Year (1 credit)      Grade: 9, 10  
Prerequisite: Approval by IRPD Committee

The purpose of this course is to help the student examine their skills and interests so they can make sound and satisfying career choices. Students will explore each of the career clusters throughout the school year to help them determine which cluster they will choose. Students will learn what kinds of jobs/careers are involved in each cluster. Vocational assessments, evaluation of strengths, weaknesses, and interests will be an integral part of this class. Guest speakers and field trips to various businesses will also be part of the program.

### **036 INTRODUCTION TO THE WORLD OF WORK**

Full Year (1 credit)      Grade: 10, 11  
Prerequisite: Approval by IRPD Committee

This course is designed to introduce students to skills they will need to succeed in school, on the job, and on their own. It will help them prepare for a career and become productive members of the work force. This course will also teach students basic work ethic, habits, and attitudes that are critical to staying employed. Also included will be resume development and interviewing skill development. Job shadowing or work sampling may also be involved.

### **037 JOB SHADOWING**

Full Year (1 credit)      Grade 11 or 12  
Prerequisite: Successful completion of Introduction to Work and approval by IRPD Committee

This course will give the student actual on-the-job training through different jobs within the school. The student will work in one of the following jobs or possibly be cycled through four different jobs within the school year: Teacher's aide, library aide, office aide, nurse's aide, janitorial aide, guidance aide, and cafeteria aide. The student will be supervised and meet weekly with supervisor to discuss questions or concerns of the student or his or her cooperating school employer. The student may also be given the opportunity to work in the student-run store, The Teacher's Closet.

### **700 PEER TUTOR**

Full Year      Grade: 10, 11, 12  
Prerequisite: Approval by instructor

Students assist students with special learning problems in their regular classes or at the Indian River Eagle Company in Millsboro.

### **710 SAT PREP**

Full Year      Grade: 11, 12  
Prerequisite: Approval by instructor

This course will give the student the opportunity to develop the necessary skills to increase their math and verbal scores on the Scholastic Aptitude Test (SAT).

## **JROTC**

This is a four-year program that places varying emphasis on leadership education.

### **240 LEADERSHIP EDUCATION I (LE 1)**

Full Year (1 credit)      Grade 9, 10, 11,12

This course is an introductory course emphasizing the development of self-discipline, personal responsibility, character, citizenship, followership, and effective study habits. An understanding of principles, traits, and values is used to develop leadership skills. Leadership lab focuses on physical fitness and health, first aid, outdoor survival skills, public speaking, community service, air rifle safety and qualification, Marine Corps drill and military ceremonies.

**241 LEADERSHIP EDUCATION II (LE II)**

Full Year (1 credit)      Grade 10,11,12

This course introduces the student to more advanced leadership skills building on the previous year's exposure. Continued emphasis will be placed on developing self-discipline, personal responsibility, and character. Leadership roles are assigned and broadened through academic achievement and performance assessment, First Aid, CPR, health, oral and written communications, map reading, marksmanship basics and range procedures, the military's role in U.S. history, and a historical study of American leaders are some of the subject areas covered. Leadership lab will focus on planning and conducting physical fitness classes, outdoor survival skills, community service activities, air rifle range control procedures, drill and military ceremonies.

**242 LEADERSHIP EDUCATION III (LE III)**

Full Year (1 credit)      Grade 11, 12

This is an advanced course emphasizing leadership development through the application of leadership roles. Course content covers principles of instruction, US military history and leaders from 1775-1945, oral and written communications, psychology of leadership, book reviews and oral presentations, independent study, and technology awareness. Leadership lab will continue to focus on planning and conduct of physical fitness classes, outdoor survival skills, community service activities, air rifle range control procedures, Marine Corps drill and ceremonies, and instruction of LE I and LE II students.

**243 LEADERSHIP EDUCATION IV (LE IV)**

Full Year (1 credit)      Grade 12

This is an advanced course with continuing emphasis on leadership development, principles of instruction, military staff functions, US military history from 1945 – present, in-depth study of successful leaders in contemporary society, independent study, counseling and evaluation of subordinates. LE IV students are exposed to the relevancy of their prior year's work as it relates to future jobs or college in order to prepare them for society. Leadership lab will focus on planning and conducting the yearly events, on-going community service activities, Marine Corps drill and military ceremonies, and instruction of LE I, II, and III students.

**251 JROTC COMPETITION DRILL**

Full Year (1 credit)      Grade 9, 10, 11, 12

This course is designed to develop and perfect competitive drill routines for performances at civic functions throughout the DELMARVA area and at JROTC drill meets. The student must exhibit a high level of self-discipline, personal responsibility, cooperation and teamwork. Students will be evaluated on their mastery of regulation and exhibition drill, ability to perform as a member of a competitive team, and leadership ability. The student must be able to participate in after-hours weekday practices and weekend activities or competitive events.

**Work Study Program**

Students may enroll in a work-study program in grade 12. As many as two credits can be earned toward "related" credits.

**758 DIVERSIFIED OCCUPATIONS WORK  
EXPERIENCE**

Full Year (max 2 credits)      Grade 12

Prerequisite: Instructor Approval

This program exists to provide some students with the opportunity to gain work experience in an area related to their major of study. Permission to enroll in this program will be considered on an individual

basis. Prior approval for this course must be obtained from the Diversified Occupations Program Coordinator.

### **Visual and Performing Arts Major**

#### **851 DESIGN**

Full Year (1 credit)      Grade: 9, 10, 11, 12  
Prerequisite: None

This course provides the student with a background in the basic design experiences: line, shape, form, color, value, texture, drawing, painting, lettering, and print-making in a variety of media areas.

#### **853 DRAWING AND PAINTING**

Full Year (1 credit)      Grade: 10, 11, 12  
Prerequisite: Successful completion of Design

This course is for the student who prefers to learn basic uses of pencil, pen, ink, charcoal, pastels and varied paints for personal pleasure and enrichment. Fundamentals of line, form, perspective, design and color are stressed.

#### **855 COMMERCIAL ART**

Full Year (1 credit)      Grade: 10, 11, 12  
Prerequisite: Successful completion of Design

Students will create class projects including the use of lettering, color, printing, designing, illustration and advertising techniques. Possible projects may include: posters, logos, greeting cards, stationary, advertisements, album covers, t-shirt designs, and book covers.

#### **856 CERAMICS**

Full Year (1 credit)      Grade: 11, 12  
Prerequisite: Successful completion of Design, and Drawing and Painting or Commercial Art.

This is an opportunity to experience the basics of ceramics. Hand building will include coil, slab, pinch, free style and wheel throwing techniques. Seasonal ceramics will also be taught. Staining and glazing techniques will also be stressed.

#### **858 SENIOR ART PROJECT**

Full Year (1 credit)      Grade: 12  
Prerequisite: Successful completion of all art courses

This course is designed to give the serious art student insight to many advanced techniques in the areas of design and painting. Group and individual projects will be experienced.

#### **960 BAND**

Full Year (1 credit)      Grade: 9, 10, 11, 12  
Prerequisite: Must be able to read music

Students enrolled in the full band will participate in all phases of band work. The marching band participates at football games, parades and community activities. The concert band performs at least one concert and assembly program each year. Various ensembles and the stage band permit experiences in small groups. The variety of groups and music provide continuous growth on the instrument and expanded knowledge of the many forms and styles of music.

#### **962 CHORAL UNION**

Full Year (1 credit)      Grade: 9, 10, 11, 12

Prerequisite: Must be able to match pitches as determined by instructor

Choral Union is a performance class in which students learn basic technical skills required in correct, traditional, artistic singing and explore a variety of selections from choral literature appropriate to their level. The class will perform in concerts in and out of school. They will also perform in the school variety show. Students must audition for membership; their auditions must demonstrate ability sufficient to be able to master the technical skills taught. Students will be called upon to sing by themselves at various times in rehearsal as a part of the instruction.

### **961 SYMPHONIC WINDS**

Full Year (1 credit) Grade: 10, 11, 12

Prerequisite: Successful completion of Band

Musicians enrolled in Symphonic Winds will participate in all phases of the instrumental program including: marching band, parades, competitions, community activities, assemblies, and concerts. Students will be able to perform the requirements for Senior County Band at a proficient level. Various ensembles, such as saxophone ensemble or brass ensemble, give the participating students the opportunity to experience performance in small groups. Students will also further develop sight-reading skills, analyze aural examples of a varied repertoire, and develop a more extensive knowledge of the technical vocabulary of music.

### **963 CONCERT CHOIR**

Full Year (1 credit) Grade: 10, 11, 12

Prerequisite: Successful completion of choral union or equivalent

Concert choir is a performance class in which students learn basic technical skills required in correct, traditional, artistic singing and explore a variety of selections from choral literature appropriate to their level. The class will perform in concerts in and out of school. They will also participate in planning and perform in a school variety show. Students must audition for membership; their auditions must demonstrate ability sufficient to be able to master the technical skills taught. Students will be called upon to sing by themselves at various times in rehearsal as a part of the instruction.

### **966 WIND ENSEMBLE**

Full Year (1 credit) Grade: 11, 12

Prerequisite: Successful completion of Symphonic Winds

Students will be able to perform the requirements for Senior All-State Band at a skilled level on their primary instrument, as well as having the opportunity to develop a basic understanding of each instrument in their family. Students will be asked to evolve specific criteria for making informed, critical evaluations of the quality and effectiveness of performances and apply the criteria in their personal participation in the Wind Ensemble. Also, students must explain ways in which the principles and subject matter of various disciplines outside the arts are interrelated with those of music.

### **964 CANTUS**

Full Year (1 credit) Grade: 11, 12

Prerequisite: Successful completion of concert choir or equivalent

Canto is a performance class in which students learn advanced technical skills required in correct, traditional, artistic singing and explore a variety of selections from choral literature appropriate to their level. The class will perform in concerts in and out of school. They will also plan, execute, and perform in a school variety show. Students must audition for membership; their auditions must demonstrate ability sufficient to be able to master the technical skills taught. Students will be called upon to sing by themselves at various times in rehearsal as a part of the instruction.

### **135 GRAPHIC DESIGN 1**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite:

This course is designed for the computer literate student who has an interest in desktop publishing, art, and advertising. Students will explore the following applications: Adobe Pagemaker, Photoshop and basic HTML editors. The course focuses on artistic expression through “the digital medium.” Student-produced work will be the emphasis of evaluation.

### **136 GRAPHIC DESIGN 2**

Full Year (1 credit) Grade: 10, 11, 12

Prerequisite: Successful completion of Graphic Design 1 (135) and recommendation of Graphics Department Instructor

This course is designed to give students a wide range of experiences in the field of desktop publishing, graphic art and web design. Students will explore one or more applications at a more advanced level than Graphic Design 1 using some of the following: Adobe Pagemaker, Photoshop, M.S. Publisher, Printshop, and FrontPage 2000. Students will be responsible for designing layouts, meeting dead-lines, producing newsletters, brochures, pamphlets, business cards, manuals, instructional booklets, etc. Student-produced work will be the emphasis of evaluation.

### **140 INTRO TO THEATRE/BROADCASTING**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite:

This two-semester course is designed for the student who has varied interest in the areas of video, public speaking, and drama. Basic background will be provided in the history and structure of theatre from ancient times to the present day. Debate and public speaking strategies will be examined and practiced, as well as general exposure to the inner workings of the video news production. Students will perform skits, scenes, and develop their talents in performance and memorization.

### **137 COMPUTER AIDED GRAPHICS**

Full Year (1 credit) Grade: 10, 11, 12

Prerequisite: English Department or Graphics Department recommendation and or successful completion of Graphic Design 135

Students will learn and use one or more desktop publishing programs to create a school newspaper to be distributed bi-monthly. Students will be responsible for selling ads, designing layouts, writing stories in journalistic style, and meeting deadlines.

### **138 COMPUTER PUBLICATIONS**

Full Year (1 credit) Grade: 11, 12

Prerequisite: Successful completion of Graphic Design 135 and Graphics Department recommendation – Graphic Design 135 may be waived as a prerequisite with demonstrated proficiency in Adobe Pagemaker and Photoshop.

This course is designed for the computer literate student. The course provides the interested and motivated student with the opportunity to work on the preparation, promotion and distribution of the high school yearbook. Students may work on aspects of the yearbook including: design, layout, graphic arts, business management, yearbook and ad sales, and photography.

### **141 BROADCASTING I**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite: Successful completion of either Intro to Broadcasting or Journalism

This hands-on class allows the student to develop professional, technical, and performance skills geared to the video, radio and broadcasting field. Particular emphasis will be placed on the areas of script/copy writing, memorization skills, video editing, on camera performance and equipment proficiency. Students enrolled in Broadcasting I will be required to participate with live morning school announcements and video documentation of in and out of school activities, as well as, community events.



The course is designed to give students a wide range of experiences in the field of broadcasting and provides interested and motivated students the opportunity to work on the preparation, promotion, and distribution of video graphic works and projects. The former video news class is the basis for this expanded class.

### **142 ACTING I**

Full Year (1 credit)      Grade: 9, 10, 11, 12

Prerequisite:

This laboratory class allows the experienced student in theatre and acting to hone and refine their performance skills. Memorization, character study and acting process/theory will be the foundation to this class. Scenes, dinner theatre type performances and formal plays will be produced by a combination of in-class and out-of-class participation. Participation in the Drama Club is required for all students.

### **139 ADVANCED COMPUTER AIDED GRAPHICS**

Full Year (1 credit)      Grade: 11, 12

Prerequisite: English Department or Graphics Department recommendation and or successful completion of Graphic Design 135

This course is an extension of the journalism course. It is designed for the student who successfully completed journalism 137 and is interested in pursuing journalistic writing, desktop publishing and/or advertising sales as a career possibility.

### **144 ADVANCED COMPUTER PUBLICATIONS**

Full Year (1 credit)      Grade: 11, 12

Prerequisite: Successful completion of Graphic Design 135 and Graphics Department recommendation – Graphic Design 135 may be waived as a prerequisite with demonstrated proficiency in Adobe PageMaker and Photoshop.

This course is an extension of the yearbook course. It is designed for the student who successfully completed yearbook 138 and would like to pursue a career in graphic design, photography or advertising sales.

### **143 MULTIMEDIA PRODUCTIONS**

Full Year (1 credit)      Grade: 11, 12

Prerequisite: Successful Completion of Broadcasting or Written Publications

This course is designed to explore the computer as a multimedia production tool to create and produce the IRHS CD Photo Album. The use of several publication programs will be fully explored in this project-oriented course. Each student will demonstrate proficiency in digital photo production, PowerPoint presentations, and print shop products. Select individuals will work on maintaining the IRHS Website.

## **Business Technology**

### **641 INTRODUCTION TO ACCOUNTING**

Full Year (1 credit)      Grade: 9, 10, 11, 12

Prerequisite: None

This course introduces accounting principles, theory and procedures for proprietorships and partnerships. Students are also exposed to income tax preparation. The accounting cycle will be completed using double-entry accounting.

### **620 ACADEMIC ACCOUNTING**

Full Year (1 credit)      Grade: 9,10,11,12

Prerequisite: Algebra I

The course introduces accounting principles, theory and procedures for proprietorships, partnerships, and corporations. The accounting cycle will be completed using the double-entry accounting method. The students will be participating in the stock market game and will utilize real-life computer simulations throughout the course. The course is designed for those students who will be pursuing a college degree in business and/or accounting.

### **642 ADVANCED ACCOUNTING**

Full Year (1 credit) Grade: 10, 11, 12

Prerequisite: Introduction to Accounting

This course expands the principles, theory and procedures introduced in Introduction to Accounting. Advanced applications and decision-making based on financial reports are emphasized in this course.

### **643 COMPUTERIZED ACCOUNTING**

Full Year (1 credit) Grade: 11, 12

Prerequisite: Introduction to Accounting or approval of Instructor

This course provides students opportunities to apply accounting theory to computerized information systems. The use of QuickBooks Pro will be integrated to reinforce accounting concepts. Introduction to Accounting is a prerequisite to this course.

### **626 WORDPROCESSING**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite: None

This course is designed to provide in-depth analysis of word processing applications and development of advanced level skills in communication and document production using the latest available word processing software for microcomputers. Emphasis will be given to the creation, revision, retrieval, storage and printing of documents. Keyboarding /Document Formatting is a prerequisite to this course for students enrolled.

### **627 COMPUTER SOFTWARE APPLICATIONS**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite: Keyboarding

This course introduces the student to the uses of computers for word processing, spreadsheet analysis, database management, multimedia and desktop publishing presentations using MS Office 2000 Suite. Students will learn how to create and edit documents. Spreadsheets will be utilized to organize financial data. Students will also study database creation and maintenance. Multimedia presentations and desktop publishing will be explored.

### **628 ADVANCED COMPUTER SOFTWARE APPLICATIONS**

Full Year (1 credit) Grade: 10, 11, 12

Prerequisite: Keyboarding/Document Formatting/Comp Software Appl.

This course expands the principles and applications introduced in Computer Software Applications. Students who successfully complete this class will be eligible for MOUS (Microsoft Office User Specialist) certification (Core). Certification would be in the areas of MSWord2000, MS PowerPoint 2000, MS Excel 2000, and MS Access 2000. Additional Internet Projects with Business Applications are used to enhance software integration.

### **630 SPECIALIZED INFORMATION PROCESSING**

Full Year (1 credit) Grade: 11, 12

Prerequisite: Advanced Computer Software Applications

This course enables students to gain experience with programming using current computer languages. Languages such as Visual Basic 6 and C++ will be explored. Web Page Design, both basic and advanced, will be studied using HTML, Front Page 2000, Flash 5, Dreamweaver4, and Fireworks5.

#### **640 RECORDKEEPING**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite: None

This course prepares students to compute, classify, and record numerical data. Understanding of the organization, operation, and control of business through recording activities is included. Personal financial management is also covered.

#### **695 INTRODUCTION TO MARKETING**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite: None

This course introduces the students to business and marketing essentials, human resource essentials, selling, and advertising. Students will also be exposed to entrepreneurship and business ownership. The class will develop a comprehensive business plan for the marketing of a hypothetical product and company.

### **Agriculture**

#### **770 INTRO TO AGRISCIENCE**

Full Year (1 credit) Grade: 9

Prerequisite:

Introduction to Agriculture courses survey a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and livestock career opportunities and to careers in related fields. As the name implies, these courses service simply to introduce the agricultural field, providing students the opportunity to identify a focus for continued study.

#### **781 GREENHOUSE MANAGEMENT**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite: None

In this course students will be extensively involved with all phases of greenhouse operation in order to successfully grow plant materials. Experiences in landscaping, plant growth and development, garden preparation, floral crops, agri-technologies, career development activities, student leadership and the FFA are included in this course. The FFA greenhouse and production fields will serve as laboratories for hands-on experiences. Class participants will be involved in the development of the Ingram's Pond Land including but not limited to: crops, forestry, environmental projects, and nature trail development.

#### **782 LANDSCAPE DESIGN AND MAINTENANCE**

Full Year (1 credit) Grade: 10, 11, 12

Prerequisite: Greenhouse Management

This course will allow each student to gain practical experience in design and maintenance of various landscape situations. Areas of study will include: landscape drawing and designing, safety, equipment operation, career awareness, lawn care, irrigation and drainage, identification of landscape plants, bidding jobs, and interpersonal skills. Students will also be involved in the FFA. Class participants will be involved in the development of the Ingram's Pond Land including but not limited to: crops, forestry, environmental projects, and nature trail development.

#### **783 CROP AND SOIL SCIENCE**

Full Year (1 credit) Grade: 10, 11, 12

Prerequisite:

This course will allow the students to see the importance of crops and soil as the backbone of American agriculture. They will study crops grown all over the country but with an emphasis on the agriculture of this local area. Through testing and trials, they will see the important role soil plays in crop production. From this class, they will have the opportunity to participate in State FFA judging events. Most of all, they will see the advances from crop production of yesteryear, and what new changes will take us into the 20th century.

#### **774 AQUACULTURE**

Full Year (1 credit) Grade: 11, 12

Prerequisite: None

The purpose of this course is to stimulate learning activities relative to production, processing, marketing, safety, reproduction, and nutrition of aquatic animals and plants. This will be an advanced level course and students will be involved with a 15' by 50' trout pond. Students will also be involved with the FFA and participate in a yearlong SAE project.

#### **796 AGRI-BUSINESS**

Full Year (1 credit) Grade: 11, 12

Prerequisite: Successful completion of two other agriscience courses.

This is an upper level course that is designed to help the student become knowledgeable and skillful in the planning, operation, and record keeping of agricultural business. Instruction in livestock and crop production methodology, agricultural accounting principles, marketing of agriculture products, market analysis of various commodities throughout the U.S., and use of computers in agriculture are included. FFA experiences and activities will be an integral part of this course. Class participants will be involved in the development of Ingram's Pond Land including but not limited to: crops, forestry, environmental projects, and nature trail development.

#### **776 ANIMAL SCIENCE I**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite: None

This class is an entry-level course for all animal science courses and is designed to explore the animal science industry through the study of economically important agriculture animals, their products, and related careers and management. All students will be exposed to the FFA through classroom activities and career development activities and will be required to maintain a yearlong supervised project as an extension of the curriculum. Class participants will be involved in the development of the Ingram's Pond Land including but not limited to: crops, forestry, environmental projects, and nature trail development.

#### **ANIMAL SCIENCE II**

Full Year (1 credit) Grade: 10,11, 12

Prerequisite: Animal Science I

This course is an upper level course designed to advance the students in the study of animals, their products, anatomy, nutrition, and management. The students will also be trained to judge many livestock species for show and Career Development Events. Small animals as well as the traditional livestock species will be introduced. Students will be a part of the FFA and complete a year long Supervised Agriculture Experience Project.

#### **785 NATURAL RESOURCE**

Full Year (1 credit) Grade: 9, 10, 11, 12

Prerequisite:

This course will introduce the students to the world of ecology. They will have the opportunity to study the environment around us, including the habitat and the animals that live there. As we have a varied habitat in this area (marsh-land, forest, farms, and small communities), our studies will be quite varied. From harvesting mature forest to planting and regrowth of an ecosystem, the students will see our natural resources for what they are - a responsibility.

### **780 FORESTRY/WILDLIFE**

Full Year (1 credit)      Grade: 10, 11, 12

Prerequisite:

This course will be a two-part course related to forestry and wildlife. Students enrolled in this class will have the opportunity to study all phases of forest management. They will be expected to determine board feet in a free standing forest, identify lumber samples, explain the varied uses of different types of lumber, and develop an understanding of the business aspect. The studies will also overlap into ecology to allow the students to think about the long-term effects and planning that go into forestry. There is also an FFA career development event associated with forestry in which the students may participate. The second part of this course will deal directly with agricultural and wildlife issues that affect our local area. All students will become involved with FFA, career awareness, hunter safety, wildlife management, hunting and fishing techniques, habitat development, soil and water conservation, wood lot management, and alternative agricultural crops. Students are expected to produce both group and class projects. Students will be involved in the FFA. Class participants will be involved in the development of the Ingram's Pond Land including but not limited to: crops, forestry, environmental projects, and nature trail development.

## **Technical Education**

### **745 TECH SYSTEMS**

Full Year (1 credit)      Grade: 9, 10, 11, 12

Prerequisite: None

This course is designed to provide the student with hands-on experience related to problem solving, creative thinking, decision-making, communication skills, and critical thinking as related to design briefs and their solutions. Due to evolving and emerging of new technologies, this course may include such topics as design drafting, metric 500, access information on the Internet, energy, making things work, multimedia, robotics, Lego/Logo, model house, panel framing system, and miniature decoy carving.

### **730 COMMUNICATION TECH SYSTEMS**

Full Year (1 credit)      Grade: 9, 10, 11, 12

Prerequisite: None

This course is for the first year communications student who is interested in learning the language of drafting, mechanical/pre-engineering techniques and may include other topics such as silk screening, and desktop publishing.

### **746 PHYSICAL TECHNOLOGY**

Full Year (1 credit)      Grade: 10, 11, 12

Prerequisite: 745

This course is a continuation of Technology Systems. Due to evolving and emerging of new technologies this course may include such topics as design cad, fiber optics/laser, robotics, Lego/Logo manufacturing, how things are put together, structural engineering, rocketry, air tracks, and space 2000.(CIP 21.0300)

### **731 ARCHITECTURE/COMMUNICATION SYSTEMS**

Full Year (1 credit)      Grade: 10, 11, 12

Prerequisite: 730

This course is for the second-year communication tech. student who is interested in learning the language of architectural drafting and construction principles using manual and computer-aided drafting.

**747 TECH INDUSTRY**

Full Year (1 credit)      Grade: 11, 12

Prerequisite: 745, 746

This course is a continuation of Physical Technology. Due to evolving and emerging of new technologies this course may include such topics as entrepreneurship, computer construction, and other future technologies.

**732 COMMUNICATION DESIGN**

Full Year (1 credit)      Grade: 11, 12

Prerequisite: 730, 731

This course is for the third year communication tech. student who is interested in higher level thinking skills as related to architectural problems.

**Schedule A**

190 Honors English 9  
 390 Honors Geometry  
 491 Academic Physical Science  
 291 Academic Civics  
 909 Physical Education  
 939 Health  
 521 Spanish I  
 851 Design

**Schedule B**

191 Academic English 9  
 391 Algebra I  
 491 Academic Physical Science  
 291 Academic Civics  
 909 Physical Education  
 939 Health  
 511 French I  
 960 Band

**Schedule C**

192 Technical English 9  
 393 Math Connections I  
 402 General Biology  
 292 General Civics  
 909 Physical Education  
 939 Health  
 745 Tech Systems  
 730 Communication Tech Systems

**Schedule D**

192 Technical English 9  
 393 Math Connections I  
 402 General Biology  
 292 General Civics  
 909 Physical Education  
 939 Health  
 115 Reading  
 ---- Math Academy

**Schedule E**

--- Academic Challenge English  
 --- Academic Challenge Math  
 491 Academic Physical Science  
 291 Academic Civics  
 909 Physical Education  
 939 Health  
 960 Band  
 961 Choral Union  
 627 Computer Software Applications  
 240 JROTC

**Schedule F**

040 English 9  
 073 Mathematics I  
 061 Civics  
 080 Physical Science  
 056 Reading  
 909 Physical Education  
 939 Health  
 236 Human Studies

**9<sup>th</sup> Grade Course Selection Sheet**

Name \_\_\_\_\_ Student I.D. \_\_\_\_\_

Major \_\_\_\_\_ Phone # \_\_\_\_\_

**2002-2003 Course Selection**

<b>Course Number</b>	<b>Course Name</b>	<b>Credits</b>	<b>Teacher Initials</b>
<b>Total Credits</b>			