Gloucester County Institute of Technology

Course Selection Guide

2019-2020
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GUIDANCE AND COUNSELING SERVICES

The Gloucester County Institute of Technology has guidance counselors on staff who are specialists in both career planning and college admissions requirements. By working with them, students can be assured that the courses they select each year will prepare them for the career goals they have set.

The process for course selection encourages open discussion between students, parents, counselors and teachers so the student is comfortable with his or her schedule. Parents can be assured that their child will be prepared for a successful future.

This Course Selection Guide includes the academic and career preparation courses offered for the next school year within each of the programs.

GRADUATION REQUIREMENTS

Students may graduate from the Gloucester County Vocational-Technical School District when they have acquired a minimum of 120 credits and meet all graduation requirements in accordance with N.J.A.C.6A:8-5.1 and GCVTSD policy 5460.

New Jersey State Required Courses to Graduate

- 5 credits of World History
- 10 credits of U.S. History
- 20 credits of Language Arts Literacy
- 5 credits of World Language
- 15 credits of Science (including at least 5 credits in a laboratory biology/life science or the content equivalent; an additional laboratory/inquiry based science course including chemistry, environmental science, or physics; and a third laboratory/inquiry based science course)
- 15 credits of Mathematics (including Algebra I and Geometry or the content equivalent and a third year of math that builds on the concepts and skills of algebra and geometry and prepares students for college and 21st century careers)
- 3.75 credits of Health, Safety, and Physical Education during each year of enrollment
- 5 credits Visual and Performing Arts
- 5 credits of 21st Century Life and Careers, or Career-Technical Education
- 2.5 credits of Financial, Economic Business and Entrepreneurial Literacy
- Graduating classes of 2020 and beyond, will be required to show proficiency in the PARCC Assessment (Partnership for Assessment of Readiness for College and Careers)/NJSLA in
English Language Arts 10 (ELA10) and Algebra I. Subsequent pathways are only available if a student took all PARCC tests associated with the high school level courses for which they were eligible and received valid test scores.

- Meet the attendance requirement set forth in district policy 5200

**Note:** Students will receive a career specialization-endorsed diploma. They will be required to acquire a minimum of 140 credits, meet all graduation requirements in accordance with N.J.A.C.6A:8-5.1, complete all requirements for career specialization; including any required exit testing for their specific career area, successfully complete 45 credits in the mandated career major specialization course work, and earn additional elective credits as outlined in the Curriculum Guide.

**GRADUATION OPTIONS**

**INDIVIDUALIZED STUDENT LEARNING OPPORTUNITIES (District Policy 5460)**

The 120 credit requirement set forth in N.J.A.C. 6A:8-5.1 may be met in whole or in part through program completion of a range of experiences that enable students to pursue a variety of personalized learning opportunities, as follows:

District boards of education shall establish a process to approve individualized student learning opportunities that meet or exceed the Core Curriculum Content Standards.

Individualized student learning opportunities in all Core Curriculum Content standards areas include, but are not limited, to the following:

(A) Independent study;
(B) Online learning;
(C) Work-based programs, internships, apprenticeships;
(D) Study abroad programs;
(E) Student exchange programs;
(F) Service learning experiences; and
(G) Structured learning experiences.

Individualized student learning opportunities based upon specific instructional objectives aimed at meeting or exceeding the Core Curriculum Content Standards shall:

(A) Be based on student interest and career goals as reflected in the Personalized Student Learning Plans as they are phased in according to the schedule of implementation set forth at N.J.A.C. 6A:8-3.2(a)1;
(B) Include demonstration of student competency;
(C) Be certified for completion based on the district process adopted
(D) Be on file in the school district and subject to review by the Commissioner of his/her designee.

Students wishing to apply for individualized learning opportunities must fill out an application, in its entirety, and submit it to the Individualized Learning Committee for approval, a minimum of two weeks prior to the start of said individual learning opportunity. Applications turned in late will not be accepted to be reviewed.
Individual learning opportunities will only be approved for New Jersey Department of Education graduation required courses.

Applications are located in the Guidance office.

**GRADING**

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Numeric Grade</th>
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<tbody>
<tr>
<td>A</td>
<td>100-92</td>
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<tr>
<td>B</td>
<td>91-84</td>
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<tr>
<td>C</td>
<td>83-75</td>
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<td>D</td>
<td>74-68</td>
</tr>
<tr>
<td>F</td>
<td>67-0</td>
</tr>
<tr>
<td>Inc.</td>
<td>Incomplete</td>
</tr>
</tbody>
</table>

All teachers will use the following Grading System in determining the grades of all students:

Students who fail to earn at least a 68 final average in a non-elective course as defined in N.J.A.C. 6A:8-5.1 and who attend and receive a passing grade in an approved summer school make-up program will receive the grade that they earn. Both grades will appear on the student’s transcript. Both grades will be used to calculate student’s grade point average and rank in class.

**INCOMPLETEs**

Students who are absent from school with excused absences, will be assigned an “Incomplete” and given the opportunity to make up their missing assignments.

Students who receive an “Incomplete” will adhere to the following guidelines:

- For every day absent, students will have three days to make up the missed assignment(s).
- If the student fails to complete the assignments within the designated time period, zeros (0) will be assigned for any outstanding assignments, and the final grade will be calculated.
- The principal has the discretion to extend the deadlines for extended illnesses or other extenuating circumstances.
The Board recognizes that it is not uncommon for a college to request a student’s grade point average and/or rank in class as part of their admissions review process. This policy establishes the guidelines for establishing Grade Point Average and Class Ranking determinations for students enrolled in Gloucester County Vocational-Technical School District (GCVTSD).

A. All courses taken at GCVTSD will be included in the calculation of Grade Point Average (GPA) and Class Ranking.

B. The calculation of a student’s unweighted Grade Point Average will be based on the final numeric grade, not including weight, for each course.

C. To determine unweighted Grade Point Average (GPA), the numeric grade, not including weight, earned for each course will be multiplied by the number of credits assigned to the course. The sum of these products will then be divided by the total number of credits attempted.

D. Students who transfer previously earned high school course credits will have grade points assigned by the calculation process noted above.

E. Students who transfer previously earned high school course credits will have Rank determined by the following chart (see Rank Weighted GPA below).

F. To determine class rank, the final numeric grade, plus the added value (based on weight) earned for each course will be multiplied by the number of credits assigned to the course. The sum of these products will then be divided by the total number of credits attempted. Refer to Rank Weighted GPA scale chart.

<table>
<thead>
<tr>
<th>Numeric Grade</th>
<th>Rank Weighted GPA Scale</th>
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<tr>
<td></td>
<td>Weight I Courses – added value of 0</td>
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<tr>
<td>100</td>
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<tr>
<td>Numeric Grade</td>
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<tr>
<td></td>
<td>Weight I Courses – added value of 0</td>
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<tr>
<td>Numeric Grade</td>
<td>Rank Weighted GPA Scale</td>
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<td>---------------</td>
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</tr>
<tr>
<td></td>
<td>Weight I Courses – added value of 0</td>
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<tr>
<td>67 &amp; below</td>
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</tbody>
</table>

G. Students shall be identified for school honors, such as top 5% or top 10% of their class, Best of the Class, on the basis of Rank in Class. School honors will be calculated following the third marking period of their senior year (7 ½ completed semesters). A student who transfers to the Gloucester County Institute of Technology after the start of his/her junior year or has attended fewer than four full semesters will not displace a student who has attended the Gloucester County Vocational-Technical School for three or more years (five or more full semesters) as top 5% or 10% of their class.

H. Only courses taken in grades 9-12 will be used in determining Grade Point Average (GPA) and Class Weighted Ranking. Credits earned in programs prior to grade 9 will not count toward graduation.

I. Transfer students who have previously earned credits for courses in which pass/fail grades are awarded, rather than numeric or letter grades, will have these courses and grades noted on their final transcript. A pass/fail grade will not, however, be included in determining Grade Point Average (GPA) and will not be considered in the calculation of Weighted Class Rank. A transferred letter grade will receive the highest numeric grade.

J. Graduation requirements fulfilled though individual learning opportunities, will be weighted and ranked through an application process. Please see the student handbook or page 4 of this guide for directions to apply for individual learning opportunities.
Rowan College at Gloucester County requires all students to take the placement test. Students may satisfy the placement test (Accuplacer or Accuplacer NextGen) requirement by taking the placement test or by meeting any one of the exemption criteria listed below:

**Criteria for Placement Test Exemption**

Only students who have met one of the following criteria are eligible to earn college credit:

<table>
<thead>
<tr>
<th>Reading Exemptions</th>
<th>Minimum Score Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAT Evidence-Based Reading and Writing (EBRW)</td>
<td>450</td>
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<tr>
<td>PARCC English/Language Arts (ELA) Grade 11</td>
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<tr>
<td>ACT Composite</td>
<td>21</td>
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<tr>
<td>Accuplacer Reading</td>
<td>70</td>
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<tr>
<td>Accuplacer NextGen Reading</td>
<td>250</td>
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<table>
<thead>
<tr>
<th>Writing Exemptions</th>
<th>Minimum Score Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAT Evidence-Based Reading and Writing (EBRW)</td>
<td>480</td>
</tr>
<tr>
<td>PARCC English/Language Arts (ELA) Grade 11</td>
<td>4</td>
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<tr>
<td>ACT Composite</td>
<td>21</td>
</tr>
<tr>
<td>Accuplacer Sentence Skills</td>
<td>96</td>
</tr>
<tr>
<td>Accuplacer NextGen Sentence Skills</td>
<td>250</td>
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<td>Accuplacer and NextGen WritePlacer</td>
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<table>
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<th>Math Exemptions</th>
<th>Minimum Score Required</th>
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<tr>
<td>SAT Mathematics</td>
<td>500</td>
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<tr>
<td>PARCC Algebra II</td>
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<tr>
<td>ACT Composite</td>
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<tr>
<td>Accuplacer Math</td>
<td>76</td>
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<tr>
<td>Accuplacer NextGen Math</td>
<td>264</td>
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</table>
Course of Study Required for the Academy of Allied Health & Medical Science  
**School Year 2019-2020**

**Freshman**
- Health Careers Exploration .................................................. 5 credits
- Global Health .......................................................................... 5 credits
- Information Technology for the Medical Profession .................. 5 credits
- Fitness for Life I ...................................................................... 5 credits
- Honors English I ..................................................................... 5 credits
- Honors US History I ............................................................... 5 credits
- Honors Level Mathematics ....................................................... 5 credits
- Honors Lab Physics .................................................................. 5 credits
- Honors Spanish I, Italian I or Latin I ........................................ 5 credits

**Sophomore**
- College Level Medical Terminology ...................................... 7.5 credits
- College Level Biomedical Ethics ............................................. 7.5 credits
- Fitness for Life II ..................................................................... 5 credits
- Honors English II ..................................................................... 5 credits
- Honors US History II .............................................................. 5 credits
- Honors Level Mathematics ....................................................... 5 credits
- Honors Lab Chemistry ............................................................. 5 credits
- Honors Spanish II, Italian II or Latin II ................................. 5 credits

**Junior**
- College Level Anatomy and Physiology I ................................. 5 credits
- Medical Assistant Certification ............................................... 2.5 credits
- College Level Nutrition ........................................................... 7.5 credits
- Fitness for Life III or Fitness for Life III - Sports ....................... 5 credits
- Honors English III .................................................................. 5 credits
- College Level World History .................................................... 5 credits
- Honors Level Mathematics ....................................................... 5 credits
- Honors or College Level Biology ............................................. 5 credits
- College Level Personal Finance or Performing Arts or World Language III ............................. 5 credits

**Senior**
- College Level Fitness for Life IV or Fitness for Life IV or Fitness for Life IV-Indep/Sports 5 credits
- College Level English Composition 101 at RCGC .............................. 5 credits
- College Level Personal Finance or Financial Literacy or Performing Arts or World Language IV or Electives ........................................................................................................ 5-30 credits

**Attention:** Understand that registering for a college-level course, means college level credit will be awarded. Regardless of the final grade, this information will be posted to the student's PERMANENT academic transcript at Rowan College at Gloucester County. Be aware that unsuccessful completion of these courses may negatively affect students' eligibility for financial aid in the future.
Academy of Allied Health and Medical Science

Academy of Allied Health and Medical Science - Freshman

Health Careers Exploration (Weight 2)  5 credits
Health Careers Exploration is a course designed to introduce students to a broad spectrum of health careers. The course covers careers from the five pathways: diagnostic services, therapeutic services, health informatics, support services, and biotechnology research and development. For each career they study, students examine the main tasks and challenges of professionals in that career, the treatments they administer, and the interaction those professionals have with other professionals. Students learn about the educational requirements and the employment and salary outlook for each career, and they evaluate how their own skills, abilities, and interests align with different careers.

Global Health (Weight 2)  5 credits
Global Health introduces students to public health on a global scale. Students learn what disease is and investigate how it impacts world populations. By studying different societies, they learn about the relationship between health and socioeconomic development. Students learn how environmental, nutritional, and behavioral risk factors jeopardize health. And then they learn how communities, the government, and cooperative global efforts can intervene to improve health.

Information Technology for the Medical Profession (Weight 1)  5 credits
Students will build on their computer literacy skills with an emphasis on everyday technology. An introduction to computing devices, how to operate and maintain them, how to use the features of Microsoft Windows, and how to properly research information on the Internet are some of the topics to be discussed. Also, students will learn how to use Microsoft Word and PowerPoint to prepare professional documents and presentations.

Academy of Allied Health and Medical Science - Sophomore

College Level Medical Terminology (Weight 4)  5 credits
This course is designed to assist the student in mastery of the terms, words, phrases and symbols which describe the human body in its various states of health and disease, as well as the proper anatomical terms for each of the body parts. Terminology regarding diagnosis, surgical procedures and pharmacological preparations will be presented. The depth and scope of this course will meet the needs of students in health technologies and in business departments. *Must meet college Placement Test Exemption (see page 9).

College Level Biomedical Ethics (Weight 4)  5 credits
This course is designed to introduce the student to the classic and contemporary methods and theories of bioethics and to use those concepts to analyze and explore a variety of current biomedical and health-care related issues. *Must meet college Placement Test Exemption (see page 9).
**Academy of Allied Health and Medical Science - Junior**

**College Level Anatomy and Physiology I (Weight 4) 5 credits**
This course presents a comprehensive study of the structure and function of the gross and microscopic organization of the human body. Emphasis is placed on the integumentary, skeletal, muscular, and nervous systems. Laboratory experiences include computer assisted instruction and experimental labs which reinforce contemporary scientific concepts. *Must meet college Placement Test Exemption (see page 9).*

**College Level Nutrition (Weight 4) 5 credits**
This course provides students with basic nutrition information which can be incorporated into daily life. Topics include explorations of the controversies and myths concerning food, diet, and weight control. *Must meet college Placement Test Exemption (see page 9).*

**Medical Assistant Certification (Weight 3) 5 credits**
The Medical Assistant has a variety of job responsibilities inclusive of medical and administrative tasks depending on State Law. Some common tasks of a MAC include: taking patient’s history, preparing an examination room, assisting physicians during examinations, preparing and transporting specimens, filing and front desk responsibilities. Since a Medical Assistant works with the public, appearance and respect for confidentiality is important. A certification test is taken at the end of this course, if students are successful, they will have opportunities to gain entry level employment or structured learning experiences during their senior year.

**Academy of Allied Health and Medical Science - Senior**

**Allied Health and Medical Science students may choose the following senior options:**
1. Take HSOP courses on RCGCs campus for a discounted fee
2. Take College English and College Fitness for Life on RCGC’s campus and return to GCIT for elective courses that can be found under the “Elective” title in this course guide.
Course of Study Required for the Academy of Engineering
School Year 2019-2020

Freshman
Introduction to Engineering 7.5 credits
Architecture Featuring Green Methods 7.5 credits
Honors English I 5 credits
Honors US History I (first semester) 5 credits
Honors US History II (second semester) 5 credits
Honors Level Mathematics 5 credits
Honors Lab Physics I 5 credits
Honors Spanish II, Italian II or Latin II 5 credits
Fitness for Life I 5 credits

Sophomore
College Level 3-D Modeling (Solid Works CADD I) 7.5 credits
Engineering Technology 7.5 credits
Honors English II 5 credits
Honors Level Mathematics (first semester) 5 credits
Honors Level Mathematics (second semester) 5 credits
Honors Lab Chemistry 5 credits
Honors Spanish II, Italian II or Latin II 5 credits
Fitness for Life II 5 credits

Junior
College Level Introduction to Materials 7.5 credits
College Level Engineering Clinic I 7.5 credits
Honors or College Level Biology 5 credits
Honors English III 5 credits
Honors Mathematics 5 credits
College Level World History 5 credits
College Level Personal Finance or Performing Arts or World Language III 5 credits
Fitness for Life III or Fitness for Life III – Sports/Independent 5 credits

Senior
College Level Fitness for Life IV or Fitness for Life IV or Fitness for Life IV-Indep/Sports 5 credits
College Level English Composition 101 at RCGC 5 credits
College Level Personal Finance or Financial Literacy or Performing Arts or World Language IV or Electives .................................................................5-30 credits

Attention: Understand that registering for a college-level course, means college level credit will be awarded. Regardless of the final grade, this information will be posted to the student’s PERMANENT academic transcript at Rowan College at Gloucester County. Be aware that unsuccessful completion of these courses may negatively affect students’ eligibility for financial aid in the future.
**Academy of Engineering – Freshman**

**Introduction to Engineering (Weight 2) 7.5 credits**

This course prepares students to understand and apply technological concepts and processes that are the cornerstone of the high school engineering education program. Students study the nature and technological issues of the designed world. Students engage in group and individual activities where they develop innovations, design, fabricate, and engineer practical solutions to a variety of problems. Technology content, resources, and laboratory/classroom activities allow students to apply science, mathematics, and other school subjects in authentic situations.

**Architecture Featuring Green Methods (Weight 2) 7.5 credits**

Architecture is more than just walls around us. The form and function of the spaces we live and work in are at the heart of how any design comes to life. This course will investigate how the structure is designed and built as well as investigate the layout of spaces between the walls. Students will be introduced to a variety of concepts including green building and sustainable design in architecture. Students will apply the concepts introduced to a 'dream home' that they design and model.

**Academy of Engineering – Sophomore**

**College Level 3D MODELING – Solid Works CADD I (Weight 4) 7.5 credits**

Learning 3D design is an interactive process. Students learn best when they can explore the practical applications of the concepts that they learn. This course has many activities and exercises that enable students to put design concepts into practice. Students create their ideas such as artificial heart components, extreme sports equipment, hip replacement parts, robotic arm components, musical instruments and their parts as well as many others. Ideas become reality in this course as some of these items can be produced in the prototyping lab. One of the goals of the class is to have students pass the SolidWorks CSWA Certification which allows them to work as an engineering assistant/CAD technician. *Must meet college Placement Test Exemption (see page 9).*

**ENGINEERING TECHNOLOGY (Weight 2) 7.5 credits**

Students build skills for success through research, experiments, and challenges that incorporate science, technology, engineering, and math concepts. Engineering Technology introduces students to a variety of different technologies. They gain experience with using measurement tools and instruments, and perform experiments with electrical circuits, mechanical, and fluid systems. The units of the class include: Alternative Energy, Architectural Design, Construction Technology, Environmental Technology, Manufacturing Technology, Materials Science, Robotics, and Automation and Biotechnology.
**Academy of Engineering – Juniors**

**College Level Introduction to Materials (Weight 4)** 7.5 credits

This course appeals to a wide range of students with its unique combination of science, ingenuity, creativity, and exciting hands-on labs. Material Science uses a multidisciplinary approach to science and technology. Students learn about materials, material uses and applications, scientific theories, and practical experiences that prepare them to work in a technologically-rich environment. The basic principles of physics, chemistry and biology are used in the study of materials. *Must meet college Placement Test Exemption (see page 9).*

**College Level Engineering Clinic I (Weight 4)** 7.5 credits

This course presents an introduction to the practice of engineering through application problems drawn from supporting courses. It includes topics such as: technical communication formats, analytical tools, computer-based tools, introduction to design, engineering ethics, and teamwork. *Must meet college Placement Test Exemption (see page 9).*

**Academy of Engineering – Seniors**

**Engineering students may choose the following senior options:**

1. Take HSOP courses on RCGCs campus for a discounted fee
2. Take College English and College Fitness for Life on RCGC’s campus and return to GCIT for elective courses that can be found under the “Elective” title in this course guide.
Course of Study Required for the Academy of Finance & Business Management
School Year 2019-2020

Freshman
Introduction to Financial Services 5 credits
Applied Finance 5 credits
Microsoft Office 5 credits
Honors English I 5 credits
Honors US History I 5 credits
Honors Level Mathematics 5 credits
Honors Lab Physics 5 credits
Honors Spanish I, Italian I or Latin I 5 credits
Fitness for Life I 5 credits

Sophomore
College Level Principles of Marketing I 5 credits
Entrepreneurship 5 credits
Securities and Insurance 5 credits
Honors English II 5 credits
Honors US History II 5 credits
Honors Level Mathematics 5 credits
Honors Lab Chemistry 5 credits
Honors Spanish II, Italian II, Latin II 5 credits
Fitness for Life II 5 credits

Junior
College Level Accounting I 5 credits
College Level Accounting II 5 credits
College Level Personal Finance 5 credits
Honors English III 5 credits
College Level World History 5 credits
Honors Level Mathematics 5 credits
Honors or College Level Biology 5 credits
Fitness for Life III or Fitness for Life III - Sports 5 credits
Performing Arts or World Language III 5 credits

Senior
College Level Fitness for Life IV or Fitness for Life IV or Fitness for Life IV-Indep/Sports 5 credits
College Level English Composition 101 at RCGC 5 credits
College Level Personal Finance or Financial Literacy or Performing Arts or World Language IV or
Electives ........................................................................................................................................5-30 credits

Attention: Understand that registering for a college-level course, means college level credit will be awarded.
Regardless of the final grade, this information will be posted to the student’s PERMANENT academic transcript at Rowan
College at Gloucester County. Be aware that unsuccessful completion of these courses may negatively affect students’
eligibility for financial aid in the future.
ACADEMY OF FINANCE & BUSINESS MANAGEMENT

Academy of Finance & Business Management - Freshman

Introduction to Financial Services (Weight 2)  5 credits
This course introduces students to all phases of a business curriculum. The major topics discussed include economics, entrepreneurship, marketing, finance, and management.

Applied Finance (Weight 3)  5 credits
In Applied Finance, students learn about the legal forms of business organization and grasp the pros and cons of business ownership forms. Students continue to develop an understanding of profit and distinguish this measure of business success from cost and revenue. Students learn about various financial analysis strategies while they evaluate financial documents. They learn the three most common methods by which businesses raise capital—stocks, bonds, and short-term financing.

Microsoft Office (Weight 3)  5 credits
In today's competitive business environment, professional computer skills are in high demand. With the Microsoft Office course, you'll learn practical, "real world" skills that you can apply on the job or in the classroom, from word processing and spreadsheets to slideshow presentations, and more using Word, Excel, PowerPoint and Access. This course also provides the basis for beginning the MOS (Microsoft Office Specialist) certification process and also completes the IC3 certification requirements. Certification may lead to college credit for Computer Literacy.

Academy of Finance and Business Management - Sophomore

College Level Principles of Marketing (Weight 4)  5 credits
The marketing function is at the managerial level. Topics discussed include methods, trends, and problems involved in research, development, and distribution of goods and services from the producer to the consumer. Emphasis is on product strategy, pricing problems, channels of distribution, promotion, and the study of consumer and marketing behavior. *Must meet college Placement Test Exemption (see page 9).

Entrepreneurship (Weight 3)  5 credits
This course is designed to prepare students to become independent business owners. It begins from the premise of creating and owning an enterprise. It stresses starting from scratch, problem solving and decision-making, formulating procedures and systems, and charting one’s own course.

Securities and Insurance (Weight 2)  5 credits
This course focuses on the front office operation as well as the operations of a securities firm. In addition, the course introduces the student to all phases of the insurance industry including sales, service, and terminology and risk management.
Academy of Finance and Business Management – Junior

**College Level Accounting I (Weight 4)**
This course provides an understanding of the fundamental principles underlying basic accounting theory and establishes a basis for subsequent accounting courses. Extensive coverage is given to accounting cycles for services and merchandising businesses. *Must meet college Placement Test Exemption (see page 9).*

**College Level Accounting II (Weight 4)**
This course is a continuation of Accounting I, it will provide a broader foundation and utilization of accounting principles. Extensive coverage is given to problems pertaining to partnerships and corporations. *Must meet college Placement Test Exemption (see page 9).*

**College Level Personal Finance (Weight 4)**
This course introduces the concepts and tools of managing personal finances. It assumes no prior study of economics, and is designed to help students understand how to establish a personal financial plan, plan for personal taxes, manage cash, use credit cards, understand consumer lending and insurance, and invest in stocks, bonds and funds. *Must meet college Placement Test Exemption (see page 9).*

Academy of Finance and Business Management – Senior

**Finance and Business Management students may choose the following senior options:**
1. Take HSOP courses on RCGCs campus for a discounted fee
2. Take College English and College Fitness for Life on RCGC’s campus and return to GCIT for elective courses that can be found under the “Elective” title in this course guide.
Course of Study Required for the Academy of Computer Science and Digital Media  
(formerly – Information Technology & Digital Communications)  
School Year 2019-2020

**Freshman – Computer Science**
Principles of Technology  
Introduction to Graphics  
Introduction to Digital Video Production  
Honors English I  
Honors US History I  
Honors Level Mathematics  
Honors Lab Physics  
Honors Spanish I, Italian I or Latin I  
Fitness for Life I

**Freshman – Digital Media**
Computing Fundamentals & Living Online  
Digital Graphics I  
Digital Video Production  
Honors English I  
Honors US History I  
Honors Level Mathematics  
Honors Lab Physics  
Honors Spanish I, Italian I or Latin I  
Fitness for Life I

**Sophomore – Computer Science**
PC Support and Repair  
Programming and Java  
Honors English II  
Honors US History II  
Honors Level Mathematics  
Honors Lab Chemistry  
Spanish II, Italian II or Latin II  
Fitness for Life II

**Sophomore – Digital Media**
Digital Graphics II  
Digital Video Production II  
Key Applications  
Honors English II  
Honors US History II  
Honors Level Mathematics  
Honors Lab Chemistry  
Spanish II, Italian II or Latin II  
Fitness for Life II
**Junior – Information Technology**

- Fundamentals of Networking 10 credits
- Introduction to Computer Programming and Database Design 5 credits
- Honors English III 5 credits
- College Level World History 5 credits
- Honors Level Mathematics 5 credits
- Honors or College Level Biology 5 credits
- Fitness for Life III or Fitness for Life III – Sports 5 credits
- College Level Personal Finance or Performing Arts or World Language III 5 credits

**Junior – Digital Communications**

- Advanced Digital Video Production 7.5 credits
- Web Design 7.5 credits
- Honors English III 5 credits
- College Level World History 5 credits
- Honors Level Mathematics 5 credits
- College Level Biology 5 credits
- Fitness for Life III or Fitness for Life III – Sports 5 credits
- College Level Personal Finance or Performing Arts or World Language III 5 credits

**Senior – Information Technology**

- College Level Fitness for Life IV or Fitness for Life IV or Fitness for Life IV-Indep/Sports 5 credits
- College Level English Composition 101 at RCGC 5 credits
- College Level Personal Finance or Financial Literacy or Performing Arts or World Language IV or Electives ..........................5-30 credits

**Senior – Digital Communications**

- College Level Fitness for Life IV or Fitness for Life IV or Fitness for Life IV-Indep/Sports 5 credits
- College Level English Composition 101 at RCGC 5 credits
- College Level Personal Finance or Financial Literacy or Performing Arts or World Language IV or Electives ..........................5-30 credits

**Attention:** Understand that registering for a college-level course, means college level credit will be awarded. Regardless of the final grade, this information will be posted to the student’s PERMANENT academic transcript at Rowan College at Gloucester County. Be aware that unsuccessful completion of these courses may negatively affect students’ eligibility for financial aid in the future.
Academy of Computer Science and Digital Media – Freshman

Computer Science

Principles of Technology (Weight 4)  
10 credits
In today’s digital world, everyone can benefit from having basic computer and Internet skills. Basic computer and Internet skills are considered prerequisites for employment and higher education. This course provides information on computing basics, including computer hardware, software and components, fundamentals, applications and operating system software, using the Internet, and understanding IT related colleges and jobs. You’ll also learn practical, “real world” skills that you can apply on the job or in the classroom, from word processing and spreadsheets to slideshow presentations, and more using Word, Excel, and PowerPoint. After successful completion of the course, students will be prepared to take the IC3 certification exams. Becoming IC3 certified may lead to college credit for Computer Literacy.

Introduction to Graphics (Weight 2)  
2.5 credits
Students will be given an introduction to principles of good design. They will learn the basics of combining and manipulating text and graphics in the Adobe Creative Suite. This class will create basic design and production projects in Photoshop and Illustrator while understanding the differences between raster and vector images.

Introduction to Digital Video Production (Weight 1)  
2.5 credits
In this course students will learn the basic of digital video production. They will create their own productions shot on digital video. Students will become proficient at using the Premiere Pro editing system. Projects will include: photo montage, raw footage editing, and short film production. The student will also compile a ‘demo reel’ of their finished work both in front of and behind the camera.

Digital Media

Computing Fundamentals & Living Online (Weight 2)  
5 credits
In today's digital world, almost all jobs and academic institutions require basic computing knowledge and skills. This course continues to build upon basic computer knowledge. Students will become familiar with computer literacy skills as well as understand technology in today’s world. Topics include a look at computer history, types of computers & devices, maintaining and caring for technology, using Microsoft Windows, using Microsoft Office, basic networks, using and searching the Internet, and computer safety. Successful completion of this course immediately identifies a student as someone who has what it takes to succeed as a student or employee. This course provides core skills and knowledge necessary to use key computer applications and the Internet.

Digital Graphics I (Weight 2)  
5 credits
This course includes introductory instruction in graphic design and web development, utilizing the Adobe Creative Suite. Students will be given an introduction to principles of good design. They will learn the basics of combining and manipulating text and graphics to communicate an effective message. This class will create basic design and production projects in Photoshop and Illustrator while understanding the differences between raster and vector images.
Digital Video Production  (Weight 2)  
In this course, students will learn the fundamentals of digital video production. They will produce, direct, shoot, edit and act in their own productions shot on digital video. Students will become proficient at using the Premiere Pro editing system. Projects will include: photo montage, action editing, dialogue editing, short film production, commercial production and screenplay writing. The student will compile a demo reel of their finished work both in front of and behind the camera.

Academy of Computer Science and Digital Media – Sophomore

Computer Science

PC Support and Repair (Weight 4)  
IT Essentials is a hands-on, career-oriented course with an emphasis on practical experience to help students develop fundamental computer skills, along with essential career skills. Students will be able to describe the internal components of a computer, assemble a computer system, install an operating system, troubleshoot systems, network computer systems, describe mobile device hardware and OS configuration, understand cloud computing, and operational procedures. The IT Essentials curriculum helps students prepare for entry-level IT career opportunities and the CompTIA A+ certification.  Students will prepare for the CompTIA A+ certification exams.

Programming and Java (Weight 4)  
Students will learn to design and implement computer programs that solve problems relevant to today’s society, including art, media, and engineering. This course teaches object-oriented programming using the Java language. It will emphasize problem solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems. In addition to the basic tools of programming, the course consists of Object Oriented Program Design, Program Implementation, Program Analysis, Standard Data Structures, Standard Algorithms, and Computing in Context.

Digital Media

Digital Graphics II (Weight 2)  
This course will build on the foundation from Digital Graphics I, teaching advanced skills and techniques in Adobe Photoshop. Students will venture into digital photography and editing as they design and produce projects in preparation for the course's Adobe Photoshop certification exam. The class will also push its Adobe Illustrator skills to the next level as they continue to compile portfolio work.

Digital Video Production II (Weight 3)  
In this course students will build upon the writing, producing, directing, shooting and editing skills they learned in Digital Video Production I. Projects will include: DSLR camera control, short screenplay, short film production, music video production, Public Service Announcement (PSA) and an introduction to producing special effect shots. The student will also compile a demo reel of their finished work both in front of and behind the camera.

Key Applications (Weight 4)  
The Key Applications course covers the most common features of the world’s best spreadsheet, word processing, presentation and database applications. Students will learn the most common
functions of various office productivity applications in addition to being taught how to properly select and use the correct program or app for the task at hand. After successful completion of this course, students will be prepared to take the IC3 Key Applications certification exam. Becoming IC3 certified may lead to college credit for computer literacy or an elective.

**Academy of Information Technology & Digital Communications – Junior Information Technology:**

**Fundamentals of Networking (Weight 4) 10 credits**
This course is designed to provide students with the foundation-level skills they need to install, operate, manage, maintain, and troubleshoot a network. Emphasis is on practical applications of networking and computer technology to real-world problems, including home and small business network setup. This foundational course is a great starting point for students looking to begin their IT career in the Networking arena. This course will help prepare students for the CompTIA Network+ certification exam.

**Introduction to Computer Programming & Database Design (Weight 3) 5 credits**
This course is designed to offer students an introduction to computer programming and database fundamentals. Students begin to utilize a programming language and create basic computer applications. Students will work primarily with Python (language) however we apply the skills and concepts to other computer coding languages. Students will analyze various programming languages and how they apply to 21st century learning. Students will also complete a variety of labs which include Lego EV3, Raspberry Pi, and Sphero Spark Plus. Students will also explore database concepts as they relate to the information technology field.

**Digital Communications:**

**Advanced Digital Video Production (Weight 3) 7.5 credits**
In this course students will advance the writing, producing, directing, shooting and editing skills they learned in the Digital Video I and II. Projects will include: split screen, green screen, kinetic typography, short film production, and an introduction to the After Effects program. The student will also compile a demo reel of their finished work both in front of and behind the camera. At the end of this course students will sit for their Adobe Certified Associate (ACA) for Premiere Pro.

**Web Design (Weight 2) 7.5 credits**
Learn the process and art of combining text and graphics to communicate an effective message through the design of logos, graphics, brochures, newsletters, posters, signs and other types of visual communication, using industry-standard applications. Students will understand pre-press production, photo manipulation and the overall business of a graphic design studio.

**Academy of Information Technology & Digital Communications – Senior Information Technology and Digital Communications:**
1. Take HSOP courses on RCGCs campus for a discounted fee
2. Take College English and College Fitness for Life on RCGC’s campus and return to GCIT for elective courses that can be found under the “Elective” title in this course guide.
Course of Study Required for School of Construction Technology
School Year 2019-2020

Freshman
Program Specializations (only one program of specialization will be assigned) 10 credits
- Building Trades Specialization I
- Electrical Construction Specialization I
- HVACR Specialization I
- Welding Technology Specialization I
- Plumbing/Pipe Fitting Specialization I

Financial Literacy 5 credits
C.P. English I or Honors English I 5 credits
C.P. U.S. History I or Honors U.S. History I 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P. Lab Physics or Honors Lab Physics 5 credits
C.P. or Honors: Spanish I, Italian I or Honors Latin I 5 credits
Fitness for Life I 5 credits

Sophomore
Program Specialization (continue in program specialization): 15 credits
- Building Trades Specialization II
- Electrical Construction Specialization II
- HVACR Specialization II
- Welding Technology Specialization II
- Plumbing/Pipe Fitting Specialization II
C.P. English II or Honors English II 5 credits
C.P. U.S. History II or Honors U.S. History II 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P. Lab Chemistry or Honors Lab Chemistry 5 credits
Performing Arts Elective 5 credits
Fitness for Life II 5 credits

Junior
Program Specialization (continue in program specialization): 15 credits
- Building Trades Specialization III
- Electrical Construction Specialization III
- HVACR Specialization III
- Welding Technology Specialization III
- Plumbing/Pipe Fitting Specialization III
C.P. English III or Honors English III 5 credits
C.P., Honors or College Level World History 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P., Honors or College Level Lab Biology 5 credits
Fitness for Life III or Fitness for Life III – Sports/Independent 5 credits
One Elective (Performing Arts, or Financial Literacy) 5 credits

Senior
College Level Fitness for Life IV or Fitness for Life IV or Fitness for Life IV-Indep/Sports 5 credits
College Level English Composition 101 at RCGC or CP or Honors English IV 5 credits
NOTE: For placement in an honors course, it is mandatory that students receive a “B” or higher in previous subject area course. For placement in a college level course, all students must meet the college pre-requisite(s).

Attention: Understand that registering for a college-level course, means college level credit will be awarded. Regardless of the final grade, this information will be posted to the student’s PERMANENT academic transcript at Rowan College at Gloucester County. Be aware that unsuccessful completion of these courses may negatively affect students’ eligibility for financial aid in the future.

SCHOOL OF CONSTRUCTION TECHNOLOGY

Construction Technology – Freshman (Weight 1) 10 credits

Building Trades Specialization I
This course is designed to give each student the opportunity to achieve the skills needed to perform the duties of an entry-level worker in the Building Trades. These basic skills are: shop and job safety, measurement skills, math skills, hand tool skills, portable power tool skills, and stationary power tool skills. The student will gain these skills through daily hands on experience.

Electrical Construction Specialization I
Freshman and sophomore students will complete 26 lessons of instruction over a period of 1 semester. These lessons will include electrical safety, materials, tools, basic applied skills and familiarization with the National Electrical Code. While working with the various circuits, the student will learn to work safely around electricity and to use the proper tools for construction wiring.

Heating, Ventilation & Air Conditioning Specialization I
This course covers the equipment and tools found in the Plumbing, Heating and Air Conditioning fields. The students will learn the proper use of the tools and instruments of this trade. Through a combination of classroom and hands-on work, the student will learn to install and service the equipment of these trades.

Welding Specialization I
This introduction course introduces students to welding and oxy-fuel safety. Students will learn the basic concepts of the Shielded Metal Arc Welding process including machine set-up, electrode classifications and fillet welds in the flat and horizontal positions. Students will learn how to assemble an oxy-fuel cutting station and learn how to cut a mild steel plate safely and properly.

Plumbing/Pipe Fitting Specialization I
This course is designed to give each student the opportunity to achieve the skills needed to perform the work of a Plumber/Pipe Fitter. The student will gain these skills through daily hands-on experience and the introduction of information related to the installation/service of plumbing fixtures and systems. The student will learn how to safely use the tools/materials and safely operate the equipment to perform these tasks.
Construction Technology - Sophomore, Junior, and Senior
Program Specialization Level II, III, and level IV as elective option

Building Trades (Weight 2) 15 credits/year
This course is designed to give the student realistic shop experience and related experience. The course will build upon the skills learned in Introduction to Building Trades. Units of study will include a review of topics learned in that course and will expand into new areas such as shop awareness, career awareness, job safety, materials of construction, hardware of construction, blueprint reading, estimation, scaffolding and ladders, leveling instruments and site work. The student will gain these skills through daily hands-on experience in a well-equipped shop setting. Safety is stressed in every phase of the program. This approach leads to the development of a strong base from which the student can successfully enter the construction industry.

Electrical Construction (Weight 2) 15 credits/year
This is second, third and fourth level of a program that covers major topics in residential electrical construction including basic electrical theory (DC), National and Local Electrical Codes, wiring methods and materials, blueprint reading and layout. Classroom experiences will emphasize splicing, receptacle and switching circuits, new and old work house wiring, testing equipment, troubleshooting, and proper care and safe use of tools used in residential wiring.

Heating, Ventilation & Air Conditioning (Weight 2) 15 credits/year
This course covers the equipment and tools found in the Heating and Air Conditioning fields. The students will learn the proper use of the tools and instruments of this trade. Through a combination of classroom and hands-on work the student will learn to install and service the equipment of these trades. The individual employed in this position will be expected to have a pre-requisite amount of knowledge, attitude, skills and habits required to perform procedures that involve routine, predictable, repetitive, proceduralized tasks involving motor skills and limited theoretical knowledge, while working under close supervision.

Welding (Weight 2) 15 credits/year
The entry-level welder will be able to accomplish common work assignments, interpret drawing and welding symbols, set up shielded metal arc welding operations, set up and perform manual oxyfuel gas cutting operations, remove metal using the air carbon arc cutting process, and visually examine all personal welding and cutting assignments for unfavorable weld and cut edge surfaces. The individual employed in this position will be expected to have a pre-requisite amount of knowledge, attitude, skills and habits required to perform procedures that involve routine, predictable, repetitive, proceduralized tasks involving motor skills and limited theoretical knowledge, while working under close supervision.

Plumbing/Pipe Fitting (Weight 2) 15 credits/year
This course is designed to give each student the opportunity to achieve the skills needed to perform the tasks of a Plumber/Pipe Fitter. The student will gain the skills necessary to perform these tasks through the study of the various systems related to plumbing and pipefitting installed in residential and commercial buildings. Through daily hands-on experience the student will practice the installation, repair and service of the components of these systems. Safe operation and handling of the tools, materials and equipment used in these trades is an essential requirement of this course.
**Course of Study Required for Cosmetology**  
**School Year 2019-2020**

### Freshman

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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Cosmetology I</td>
<td>15</td>
</tr>
<tr>
<td>C.P. English I or Honors English I</td>
<td>5</td>
</tr>
<tr>
<td>C.P. U.S. History I or Honors U.S. History I</td>
<td>5</td>
</tr>
<tr>
<td>C.P. or Honors Level Mathematics</td>
<td>5</td>
</tr>
<tr>
<td>C.P. Lab Physics or Honors Lab Physics</td>
<td>5</td>
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<td>C.P. or Honors: Spanish I, Italian I or Honors Latin I</td>
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<tr>
<td>Fitness for Life I</td>
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### Sophomore

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Cosmetology II</td>
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<tr>
<td>C.P. English II or Honors English II</td>
<td>5</td>
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<tr>
<td>C.P. U.S. History II or Honors U.S. History II</td>
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<td>C.P. or Honors Level Mathematics</td>
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<td>C.P. Lab Chemistry or Honors Lab Chemistry</td>
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<td>Fitness for Life II</td>
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### Junior

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<th>Course</th>
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<tbody>
<tr>
<td>Cosmetology III</td>
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<tr>
<td>C.P. English III or Honors English III</td>
<td>5</td>
</tr>
<tr>
<td>C.P., Honors or College Level World History &amp; Cultures</td>
<td>5</td>
</tr>
<tr>
<td>C.P. or Honors Level Mathematics</td>
<td>5</td>
</tr>
<tr>
<td>C.P., Honors or College Level Biology</td>
<td>5</td>
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<tr>
<td>Fitness for Life III or Fitness for Life III – Sports/Independent</td>
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<tr>
<td>One Elective (World Language, Performing Arts, or Financial Literacy)</td>
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### Senior

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<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Cosmetology IV (with Extended Clinic)</td>
<td>16</td>
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<tr>
<td>College Level Fitness for Life IV or Fitness for Life IV or Fitness for Life IV-Indep/Sports</td>
<td>5</td>
</tr>
<tr>
<td>College Level English Composition 101 at RCGC or CP or Honors English IV</td>
<td>5</td>
</tr>
<tr>
<td>College Level Personal Finance or Financial Literacy or Performing Arts or World Language IV or Electives</td>
<td>5-30</td>
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</tbody>
</table>

**NOTE:** For placement in an honors course, it is mandatory that students receive a “B” or higher in previous subject area course. For placement in a college level course, all students must meet the college pre-requisite(s).

**Attention:** Understand that registering for a college-level course, means college level credit will be awarded. Regardless of the final grade, this information will be posted to the student’s PERMANENT academic transcript at Rowan College at Gloucester County. Be aware that unsuccessful completion of these courses may negatively affect students’ eligibility for financial aid in the future.
SCHOOL OF COSMETOLOGY

Cosmetology I (Weight 1) 15 credits
The Cosmetology I program is the foundation for the Cosmetology education. It will enable students to comprehend and perform entry level skills in Wet Hairstyling, including Braiding, Roller Placement, Pin Curls, and Fingerwaves, Shampooing and Scalp Treatments, Properties of Hair and Scalp, Infection Control, and Basic Nail Techniques. State Laws, Rules and Regulations, Related Theory, Safety, Sanitation and Professionalism will also be integrated in this course of study.

Cosmetology II (Weight 2) 15 credits
The Cosmetology II Program entails more progressive practical skills – Chemical Texture Services/Permanent Waving and its Related Chemistry, Haircutting, Thermal Styling, inclusive of Blow Dry Styling, Thermal Curling, and Thermal Pressing. Skin Structure, Diseases and Disorders, Hair Removal, Facials and Massage and Make Up techniques. During this level students are eligible to apply for a State of New Jersey Cosmetology Student Permit. Related Theory, Safety, Sanitation, and Professionalism are integrated in this course of study.

Cosmetology III (Weight 2) 15 credits
The Cosmetology III Program continues to build more progressive practical skills – Techniques in Hair Coloring and its Related Chemistry, Men’s Hairstyling & Grooming, Chemical Texture Services/Relaxers, Wigs and Hair Enhancements, Professional Shave, and Employment Skills. During this Level Students will also work on Clientele in the School Salon to begin to prepare for the globally competitive workforce. Related Theory, Safety and Sanitation and Professionalism are integrated in this course of study.

Cosmetology IV (Weight 3) 15 credits
The Cosmetology IV Program is the conclusion to the Cosmetology education. During Semester 1 students will continue to build their practical skills in Advanced Nail Techniques, Principles of Hair Design, Electricity, Anatomy Review and the Salon Business. During this Level Students will also work on Clientele in the School Salon to prepare for the globally competitive workforce. The 2nd Semester is dedicated to State Board Licensure Preparation. Licensure Preparation is designed to prepare the Senior Cosmetology student to take the New Jersey State Board of Cosmetology Licensing Exam. It will include both practical and theoretical skills necessary to successfully pass the exam and obtain the state license required to seek employment in the Salon Industry.
Course of Study Required for Culinary Arts
School Year 2019-2020

**Freshman**
Program Specializations (only one program of specialization will be assigned)
- Culinary Arts I 15 credits
- Baking & Pastry Arts I 15 credits
- C.P. English I or Honors English I 5 credits
- C.P. U.S. History I or Honors U.S. History I 5 credits
- C.P. or Honors Level Mathematics 5 credits
- C.P. Lab Physics or Honors Lab Physics 5 credits
- C.P. or Honors: Spanish I, Italian I or Honors Latin I 5 credits
- Fitness for Life I 5 credits

**Sophomore**
Program Specializations
- Culinary Arts II 15 credits
- Baking & Pastry Arts II 15 credits
- C.P. English II or Honors English II 5 credits
- C.P. U.S. History II or Honors U.S. History II 5 credits
- C.P. or Honors Level Mathematics 5 credits
- C.P. Lab Chemistry or Honors Lab Chemistry 5 credits
- One Elective (World Language, Performing Arts, or Financial Literacy) 5 credits
- Fitness for Life II 5 credits

**Junior**
Program Specializations
- Culinary Arts III 15 credits
- Baking & Pastry Arts III 15 credits
- C.P. English III or Honors English III 5 credits
- C.P., Honors or College Level World History & Cultures 5 credits
- C.P. or Honors Level Mathematics 5 credits
- C.P., Honors or College Level Lab Biology 5 credits
- Fitness for Life III or Fitness for Life III – Sports/Independent 5 credits
- One Elective (World Language, Performing Arts, or Financial Literacy) 5 credits

**Senior**
College Level Fitness for Life IV or Fitness for Life IV or Fitness for Life IV-Indep/Sports 5 credits
College Level English Composition 101 at RCGC or CP or Honors English IV 5 credits
College Level Personal Finance or Financial Literacy or Performing Arts or World Language IV or Electives ..........................................................5-30 credits

**NOTE:** For placement in an honors course, it is mandatory that students receive a “B” or higher in previous subject area course. For placement in a college level course, all students must meet the college pre-requisite(s).
Attention: Understand that registering for a college-level course, means college level credit will be awarded. Regardless of the final grade, this information will be posted to the student’s PERMANENT academic transcript at Rowan College at Gloucester County. Be aware that unsuccessful completion of these courses may negatively affect students’ eligibility for financial aid in the future.

**SCHOOL OF CULINARY AND BAKING & PASTRY ARTS**

**Culinary Arts I – (Weight 1) Freshman**
15 credits
This course is designed to teach the fundamentals and principles of culinary arts. Emphasis will be placed on ingredient, weights and measures, kitchen math, proper terminology, and equipment use. Also in this course, students will learn the fundamentals and principles of cooking. Emphasis will be placed on mise en place, organization, timing skills, safety, sanitation, knife skills, ingredient uses, recipe preparation, food presentation, and equipment uses.

**Baking & Pastry Arts I (Weight 1) Freshman**
15 credits
This course is designed to teach the fundamentals and principles of baking. Emphasis will be placed on safety and sanitation in the kitchen, ingredient functions, mixing methods, weights and measures, bakeshop math, terminology, and equipment use. Topics covered will include history of the baking profession, knife skills, cookies, quick breads including fritters, pancakes and waffles.

**Culinary Arts II (Weight 1) Sophomore**
15 credits
This course is designed to teach the foundations and essentials skills of culinary arts. Emphasis will be placed on introduction to the kitchen, Culinary exploration and service and management skills. Also in this course, students will learn the fundamentals and principles of cooking. Emphasis will be placed on salads, sandwiches, stock, soups, Sauces, Cooking methods, safety, sanitation, introduction to baking, front of the house service, and food service management.

**Baking & Pastry Arts II (Weight 1) Sophomore**
15 credits
This year is a continuation and reinforcement of fundamentals and principles of Baking & Pastry Arts Specialization I. This year will focus on commercial baking and production, giving the students a real life opportunity to see what it is like to work in a bakery. Topics will include assembly and baking of pies, tarts, fruit fillings, custards, yeast doughs (breads & doughnut) cake mixing, baking and icing types.

**Culinary Arts III (Weight 2) Junior**
15 credits
Culinary Arts III is an opportunity for students to further enhance their skills that were acquired in Culinary Arts I and II. While employing all of the skills learned during the freshman and sophomore year, students will be afforded the time to concentrate on particular areas of interest while refining their skills. The skills include research and course work in the areas of grains, legumes, pasta, fish, shellfish, poultry and meats.

**Baking and Pastry Arts III (Weight 2) Junior**
15 credits
Junior year is opportunities for students to further enhance their skills that were acquired in Baking & Pastry Arts I and II. Students will be afforded the time to concentrate on particular areas of interest while refining their skills. The focus of this year's topics are Frozen & fruit desserts, chocolates, dessert presentation, sugar techniques and basic syrups and cream sauces will be the topics covered in their junior year.
Course of Study for School of Performing Arts
School Year 2019-2020

**Freshman - Dance**

Dance I 15 credits
C.P. English I or Honors English I 5 credits
C.P. U.S. History I or Honors U.S. History I 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P. Lab Physics or Honors Lab Physics 5 credits
C.P. or Honors: Spanish I, Italian I, or Honors Latin I 5 credits
Fitness for Life I 5 credits

**Freshman - Drama**

Ensemble Acting/Theater History I/Intro Productions 15 credits
C.P. English I or Honors English I 5 credits
C.P. U.S. History I or Honors U.S. History I 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P. Lab Physics or Honors Lab Physics 5 credits
C.P. or Honors: Spanish I, Italian I or Honors Latin I 5 credits
Fitness for Life I 5 credits

**Sophomore – Dance**

Dance II 15 credits
C.P. English II or Honors English II 5 credits
C.P. U.S. History II or Honors U.S. History II 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P. Lab Chemistry or Honors Lab Chemistry 5 credits
Fitness for Life II 5 credits
Elective (World Language or Financial Literacy) 5 credits

**Sophomore – Drama**

Acting Technique/Theater History II/Production II 7.5 credits
College Level Living Theater 7.5 credits
C.P. English II or Honors English II 5 credits
C.P. U.S. History II or Honors U.S. History II 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P. Lab Chemistry or Honors Lab Chemistry 5 credits
Fitness for Life II 5 credits
Elective (World Language, Financial Literacy, or Elective) 5 credits

**Junior - Dance**

Dance III 7.5 credits
College Level Fundamentals of Jazz Dance 7.5 credits
C.P. English III or Honors English III 5 credits
C.P., Honors, or College Level World History 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P., Honors or College Level Lab Biology 5 credits
Fitness for Life III or Fitness for Life III – Sports/Independent 5 credits
One Elective (World Language, Performing Arts, or Financial Literacy) 5 credits
**Junior - Drama**
Intermediate Acting & Theater Hist III/Prof Dev & Prod III 15 credits
C.P. English III or Honors English III 5 credits
C.P., Honors or College Level World History 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P., Honors or College Level Lab Biology 5 credits
Fitness for Life III or Fitness for Life III – Sports/Independent 5 credits
One Elective (World Language, Financial Literacy, or Elective) 5 credits

**Senior – Dance**
College Level Fitness for Life IV or Fitness for Life IV or Fitness for Life IV-Indep/Sports 5 credits
College Level English Composition 101 at RCGC or CP or Honors English IV 5 credits
College Level Personal Finance or Financial Literacy or World Language IV or Electives 5-30 credits

**Senior – Drama**
College Level Fitness for Life IV or Fitness for Life IV or Fitness for Life IV-Indep/Sports 5 credits
College Level English Composition 101 at RCGC or CP or Honors English IV 5 credits
College Level Personal Finance or Financial Literacy or World Language IV or Electives 5-30 credits

**NOTE:** For placement in an honors course, it is mandatory that students receive a “B” or higher in previous subject area course. For placement in a college level course, all students must meet the college pre-requisite(s).

**Attention:** Understand that registering for a college-level course, means college level credit will be awarded. Regardless of the final grade, this information will be posted to the student’s PERMANENT academic transcript at Rowan College at Gloucester County. Be aware that unsuccessful completion of these courses may negatively affect students’ eligibility for financial aid in the future.
**School of Performing Arts – Freshman**

**Dance I (Weight 1)  15 credits**
This course is designed for the serious minded individual who wishes to fully explore their artistic discipline. The goal of the program is to introduce students, with a proficient dance background, to a variety of dance disciplines (Ballet I, Modern Dance I, Rhythmic Concepts/Jazz Dance I and Dance History I) and equip them with a high degree of technical proficiency in all of these disciplines. It is our intent to instill a solid work ethic (sense of professionalism) in our students, and provide them with the business acumen and scientific base of knowledge necessary for success in the dance field.

**Drama – Ensemble Acting/Theater History I/Intro Productions (Weight 1)  15 credits**
Incoming freshmen will be introduced to the foundations necessary for a career pathway in stage, film, or television. In this fast paced, hands on program, we will begin to demystify a career in the arts and equip our students with the skills to pursue this field either at the collegiate or professional level. Through improvisation and basic acting technique, students will develop imagination, spontaneity, creative risk-taking, responsiveness, ensemble skills, and problem solving. History of the theatre exposes students to the script analysis of classical works and leads them to an understanding of the development of theatre. Professional Development introduces technical theatre, commercial acting, production, dramaturgy, and dramatic criticism. We strive to create well-rounded artists who are as comfortable performing on stage in improvisation, classical drama, or musical theatre.

**School of Performing Arts – Sophomore**

**Dance II (Weight 1)  15 credits**
Students will be able to expand on their understanding of the artistic discipline of dance. The goal of the program is to further enhance the students, with a proficient dance background, to a variety of dance disciplines (Ballet, Modern dance, Rhythmic concepts and Dance History) and equip them with a high degree of technical proficiency in all of these disciplines. They will expand on their understanding of the use of the common elements of time, space, and energy as they pertain to all dance forms. Finally, they will be able to demonstrate by example a working knowledge of applied anatomy and kinesiology. In addition, students will explore the history of modern dance from its beginnings within the early 20th Century to today’s current trends in post-modern dance.

**Drama – Acting Technique/Theater History II/Production II (Weight 1)  7.5 credits**
Sophomore drama majors will build on the foundations necessary to clarify their career path in the theatre. They will explore audition technique through cold readings and prepared monologues. Students will be introduced to the Stanislavski acting technique and use of acting choices. They will continue to develop understanding of the mechanics of vocal production and the importance of relaxation techniques for the actor’s instrument. In addition, students will experience extensive scene work preparing them to fully engage an audience in a production of one act plays. Students will also gain a historical perspective on Neoclassical Theater, Realism, Naturalism, Romanticism, and Melodrama with a review of Elizabethan Theater. They will participate in practical technical experiences in such areas as stage management, prop management, and costume management and gain a deeper understanding of various theater positions such as director, assistant director, and costume, scenic, and lighting designers. In addition, students will study musical theater and engage in writing and taping television scripts.
College Level Living Theater (Weight 4)  7.5 credits
As long as humans walk the earth, theatre will survive. Even as our entertainment options get more high-tech, we still love crowding together with complete strangers in dark windowless rooms and watching fellow human beings tell stories and “play pretend” in front of our eyes. How is this possible? What keeps this ancient (and underfunded) art form alive? In this course we’ll look at theatre from the perspective of those who create it and attempt to answer the following questions:
- Why does live theatre survive in an increasingly digital age?
- How do all the individual theatre artists create a production and why do they do it?
- What can we apply from the craft of theatre to our non-theatre endeavors?

School of Performing Arts – Junior

Dance III (Weight 2)  7.5 credits
The students will continue to explore the primary disciplines of Ballet, Modern, and Jazz Dance/Rhythmic Concepts in a holistic way. The emphasis of the dance training will be on anatomically correct movement as it applies to dance technique. They will expand on their understanding of the use of the common elements of time, space, and energy as they pertain to all dance forms. In addition, students will connect the history of Classical Ballet, Contemporary Ballet Modern Dance, Post-Modern Dance, Jazz Dance, Theater Dance, and Vernacular Dance to gain insight of how dance affects our society. The students will explore the compositional devices used in developing choreography. They will focus on the elements of dance (space, time, energy, and shape) as a place to begin the process of making dances. The course will conclude in a collaborative work involving all of the students as well as the instructor.

College Level Fundamentals of Jazz Dance (Weight 4)  7.5 credits

Intermediate Acting & Theater Hist III/Prof Dev & Prod III (Weight 1)  15 credits
In order to be prepared for the ever changing, competitive job market, Junior drama students will broaden their understanding of career pathways in the field of Performing Arts. In Intermediate acting we will strive to deepen their knowledge of character creation through advanced scene study and performance in a main stage production. Students will synthesize a variety of acting methods into their performance such as the Meisner, Hagen, or Strasberg technique. We will work to increase their physical awareness by utilizing Laban, Yoga, or Viewpoints. Building upon past vocal work, we will introduce basic Linklater and Lessac work. In history of the theatre, students will focus on American works, reading and analyzing classic and contemporary American writers. Professional Development and Production examines a variety of aspects of theatre such as design and technical theatre and directing. Furthermore, they will put this learning to the test by mounting a full production, performing in various scenes, monologues, and acting for the camera experiences.
Course of Study Required for School of Automotive Technology
School Year 2019-2020

**Freshman**
Power Equipment Technology OR Introduction to Collision Technology 15 credits
C.P. English I or Honors English I 5 credits
C.P. U.S. History I or Honors U.S. History I 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P. Lab Physics or Honors Lab Physics 5 credits
Fitness for Life I 5 credits
C.P. or Honors: Spanish I or Italian I, or Honors Latin I 5 credits

**Sophomore**
Program Specialization Level I *(only one program of specialization will be assigned)* 15 credits
   - Automotive Technology Specialization I
   - Collision Repair Technology Specialization I
C.P. English II or Honors English II 5 credits
C.P. U.S. History II or Honors U.S. History II 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P. Lab Chemistry or Honors Lab Chemistry 5 credits
Fitness for Life II 5 credits
One Elective (World Language, Performing Arts or Financial Literacy) 5 credits

**Junior**
Program Specialization Level II *(continuation from Sophomore year):* 15 credits
   - Automotive Technology Specialization II
   - Collision Repair Technology Specialization II
C.P. English III or Honors English II 5 credits
C.P., Honors or College Level World History 5 credits
C.P. or Honors Level Mathematics 5 credits
C.P., Honors or College Level Lab Biology 5 credits
Fitness for Life III or Fitness for Life III – Sports/Independent 5 credits
One Elective (World Language, Performing Arts, or Financial Literacy) 5 credits

**Senior**
College Level Fitness for Life IV or Fitness for Life IV or Fitness for Life IV-Indep/Sports 5 credits
College Level English Composition 101 at RCGC or CP or Honors English IV 5 credits
College Level Personal Finance or Financial Literacy or Performing Arts or World Language IV or Electives .................................................................5-30 credits

**NOTE:** For placement in an honors course, it is mandatory that students receive a “B” or higher in previous subject area course. For placement in a college level course, all students must meet the college pre-requisite(s).

**Attention:** Understand that registering for a college-level course, means college level credit will be awarded. Regardless of the final grade, this information will be posted to the student’s PERMANENT academic transcript at Rowan College at Gloucester County. Be aware that unsuccessful completion of these courses may negatively affect students’ eligibility for financial aid in the future.
SCHOOL OF AUTOMOTIVE TECHNOLOGY

AUTOMOTIVE TECHNOLOGY I – Freshman

Power Equipment Technology (Weight 1) 15 credits
Students will be acquainted with the Power Equipment businesses, and gain basic knowledge and skills needed to work in the industry. Power Equipment Technology students will learn basic theory, operation, and repair procedures of systems used by small engine manufacturers. This course will cover basic safety, tool usage, measuring devices, engine and electrical system fundamentals and service.

Introduction to Collision Technology (Weight 1) 15 credits
In this course students will be learning basic shop fundamentals and developing skills used in the collision industry. Upon completion, students will have a working knowledge and obtain skills in the following areas: shop safety practices, tool and fastener usage, welding concepts, electrical principles, automotive systems operations, and collision shop repair/refinishing procedures. The primary purpose of this course is to give students a solid foundation which they can use in their area of specialization for the 10th and 11th grade years.

AUTOMOTIVE TECHNOLOGY II (Sophomore)

Automotive Technology Specialization I 15 credits
The first year of Automotive Specialization consists of four major ASE areas: Automotive Braking Systems, Automotive Chassis Systems, Engine Performance and Repair, and Specialized Electronic Training.

Automotive Braking Systems: Theory, Operation and Repair (Weight 2)
The automotive braking systems course will prepare the student to be familiar with standard, four-wheel disc, and anti-lock braking systems. The student should be able to service, diagnose, and repair all of these braking systems. The student should be able to explain the hydraulic and mechanical principles of a brake system. This course also contains the diagnosis and repair of traction control and stability control systems.

Automotive Chassis Systems: Theory, Operation and Repair (Weight 2)
The automotive chassis systems course will prepare the student to service tapered roller bearings and service steering systems. The student will be able to service, diagnose and repair front suspension systems and rear suspension systems. The student will be able to perform pre-alignment inspections and adjust wheel alignment including four-wheel alignments to industry specs.
Engine Performance & Repair (Weight 2)
The automotive engine repair course will familiarize the student with engine operating principles and disassembly and diagnostic procedures. The student will be able to diagnose and repair lubrication systems, cooling systems, and cylinder blocks. Training will also include crankshafts, bearings, pistons, connecting rods, camshafts, and timing components. The student should be able to assemble cylinder heads, air induction, and exhaust systems. The performance part of this course will include ignition systems, fuel injection systems, turbo charging, and electronic engine controls. The final part of this course will be automotive emissions diagnosis and repair.

Specialized Electronic Training (SET) (Weight 2)
After completing the Specialized Electronic Training, the student will be familiar with basic electrical components and systems, test equipment, types of faults, protection devices, and types of circuits. The student should be able to determine the wire gauge needed, diagnose causes of battery drain, interpret wiring diagrams, find shorts and grounds, and inspect, test, and replace circuit protection devices. The student will be able to list the different electrical systems and describe common electrical tools and test equipment.

Small Engine Level I (Weight 1) 15 credits
This course familiarizes students with marine and motorcycle/ATV equipment fundamentals. Topics may include (but are not limited to) engine systems and operation; maintaining frames and suspension, wheels and brakes, and drive trains; servicing fuel, cooling, lubrication, exhaust, and electrical systems; performing tune ups; using hand and power tools, and reading and interpreting service manuals and parts catalogs. Students will also learn safety on the job, employability skills, and entrepreneurship. Students will work towards earning the Yamaha Introduction to Outboard Systems certification.

Collision Repair Technology Specialization I (Weight 1) 15 credits

Structural Analysis and Damage Repair
This course will familiarize students with the methods of straightening structural parts, glass replacement, and partial panel replacement.

Non-Structural Analysis and Damage Repair
This course will familiarize students with the methods of vehicle preparation, panel replacement and alignment, using body fillers, and metal straightening.

Mechanical and Electrical Systems
This course will help students develop the skills necessary to repair systems that were damaged in accidents. This course will include basic brake theory, steering and suspension components, cooling systems, and electrical theory.

Painting and Refinishing
This course will make students aware of the environmental safety issues involved with the auto body industry. Students will learn how to prepare equipment and vehicles for refinishing. Students will also have a firm understanding about automotive finishes.

AUTOMOTIVE TECHNOLOGY III – Junior
Automotive Technology Specialization II

The second year of Automotive Specialization consists of the four ASE areas: Manual Drive Train and Axles, Automatic Transmission and Transaxle, Automotive Heating and Air Conditioning Systems, and Advanced Engine Performance.

**Manual Drive Train & Axles (Weight 2)**
The manual drive train course will familiarize the student with clutch diagnosis and repair, transmission diagnosis and repair, transaxle diagnosis, and repair and drive (half) shaft and universal joint diagnosis and repair. Also included in this course are rear axle diagnosis and repair, and four-wheel-drive components diagnosis and repair.

**Automatic Transmission & Transaxle (Weight 2)**
The automotive transmission/transaxle course will familiarize the student with automatic transmission theory and operation. The course will include general transmission/transaxle diagnosis and transmission/transaxle maintenance adjustment. In-vehicle transmission/transaxle repair along with off-vehicle transmission/transaxle repair. Overhaul procedures are included in this course.

**Automotive Heating & A/C Systems (Weight 2)**
The heating and air conditioning system course will prepare the student to service operating systems and related controls. Refrigerant recovery, recycling, and handling is a requirement. Students will be familiar with air conditioning system diagnosis and repair, and refrigeration system component diagnosis, and repair. The course will also contain heating and cooling system diagnosis and repair.

**Advanced Engine Performance (Weight 2)**
The Advanced Engine Performance course is the final course of this curriculum. This course will familiarize the student with general power train diagnosis, computerized engine controls diagnosis, ignition system diagnosis, fuel systems and air induction system diagnosis, and I/M Failure diagnosis.

**Small Engine Level II (Weight 2)**
15 credits
This course prioritizes 2 & 4-stroke technologies used in small engine industries. Students will investigate, in detail, the theories and design technologies as they pertain to systems common to small engines. Students will have the opportunity to earn EETC, Two and Four Stroke Industry Certifications.

**Collision Repair Technology Specialization II (Weight 1)**
15 credits

**Structural Analysis & Damage Repair**
The Structural Analysis & Damage Repair II course will teach the students the use of measuring systems used to perform full analysis on structural damage. The course will then go on to show how to make damage analysis, full panel replacements, frame rail repair and replacement, restoring corrosion protection and the selection of and understanding of various types of joints used in replacing panels using a welder.
Non-Structural Analysis and Damage Repair
The Non-Structural Analysis and Damage Repair II course will teach the students the use of all hand and power tools needed for all of the following tasks. The student will learn to remove and install quarter panels, door skins, fender hoods and deck lid replacement, trim and hardware, as well as glass and hardware. This course will also include movable glass, quarter panel replacement, door skin, and trim and hardware replacement.

Mechanical & Electrical Systems
The Mechanical & Electrical Systems II course will teach the student to diagnose, remove and replace electrical and electronic systems such as power windows, power seats, power sunroofs, electronic sensors, wiring and connectors. Analyses of air conditioning refrigerants and oil will also be covered as well as removed, replacement and repair of air conditioning systems and air bag systems.

Painting & Refinishing
The Painting & Refinishing II course will teach the students to properly mix all paints and primers to manufacturer specifications. They will learn the proper application of base-coat clear-coat systems such as single stage, two stage and 3 stage systems, full panel and spot panel blending techniques. They will also learn the sanding and buffing techniques for the maximum shine of the finished project.

ENGLISH

Honors English I (Weight 3) 5 credits
Honors English I introduces the student to a variety of literacy genres: short story, poetry, nonfiction, drama, Shakespearean tragedy, epic and novel. Students must learn to read and analyze literature well. Students will be expected to write well and analyze what each reads well. The teachers expect writing that focuses on organization, clarity, logic and mechanics with a creative flair. Students will fine tune their critical thinking, research, media, and public speaking skills. A comprehensive research project is just one of the projects expected in this class. Throughout the course, preparations for the PSAT/SAT and state assessment will be ongoing. An interdisciplinary approach to teaching is an integral part of the curriculum.

C. P. English I (Weight 2) 5 credits
C.P. English I introduces the student to a variety of literary genres: short story, poetry, nonfiction, drama, Shakespearean tragedy, epic and novel. The writing component focuses on organization, clarity, logic and mechanics while encouraging creativity. Critical thinking, research, and public speaking skills will also be developed. Throughout the course preparations for the PSAT/SAT and PARCC will be ongoing. An interdisciplinary approach to teaching is an integral part of the curriculum. Students will complete a research paper.

English I – (Weight 1) 5 credits
In English I the student will learn and develop basic writing and literary skills. The writing skills that are stressed are narrative, character sketches, responses to literature, comparisons and contrasts, opinion statements, descriptive, persuasive and expository. Additionally, all students will engage in cross-curricular writing and project-based learning. The literary genres that will be studied this
semester are short story, poetry, drama, novel and nonfiction. Twenty-first century critical thinking skills are also stressed. Preparation for standardized testing, vocabulary development and grammar will be covered. Consideration is given to students’ learning styles. Classroom serves as a small group learning environment. Modifications and accommodations are made in accordance with students’ IEPs. Supplemental materials are also available.

**Honors English II (Weight 3)**  
5 credits  
Honors English II develops the critical study of traditional genres, adding heroic comedy, heroic narrative, novella, and episodic novel. The teachers expect writing that focuses on organization, clarity, log and mechanics with a creative flair. Students will fine tune their critical thinking, research, media, and public speaking skills. Writing assignments throughout the course will be literature based and serve to reinforce prewriting, writing, and revising skills. More in-depth research projects and specific oral/aural activities will be assigned. Students will complete a comprehensive research assignment. Each year students must improve their reading, writing, thinking, speaking, presenting, listening, and media awareness skills. Throughout the course preparations for the PSAT/SAT and state assessment will be ongoing. An interdisciplinary approach to teaching continues to be an integral part of the curriculum.

**C. P. English II (Weight 2)**  
5 credits  
C.P. English II develops the critical study of traditional literary genres, adding heroic comedy, heroic narrative, novella, and episodic novel. Writing assignments throughout the course may be literature based and serve to reinforce prewriting, writing, and revising skills. More in-depth research projects and specific oral/aural activities will be assigned. Students will complete a research assignment. Throughout the course preparations for the PSAT/SAT and state testing will be ongoing. An interdisciplinary approach to teaching continues to be an integral part of the curriculum.

**English II – (Weight 1)**  
5 credits  
English II reinforces and further develops writing and literary skills. The writing skills that are stressed are the principles of effective expression, i.e., the presentation and logical development of an idea, effective sentence and paragraph structure, and different types of writing. In addition to the traditional literature-based writing component, students will engage in cross-curricular writing. The literary genres that will be studied this year are the following: short story, poetry, Shakespearean drama, novel, essay, and epic. Preparation for standardized testing vocabulary development, and grammar are also covered. Twenty-first century critical thinking skills are also stressed. Consideration is given to students’ learning styles. Classroom serves as a small group learning environment. Modifications and accommodations are made in accordance with students’ IEPs. Supplemental materials are also available.

**Honors English III (Weight 3)**  
5 credits  
Honors English III focuses on the study of American literature. This course emphasizes the developmental skills necessary to enhance the students’ abilities to read critically and to understand not only the literature, but also the history that helped shape the prose and poetry of its various periods. Literacy skills include the structure of the novel, poem, short story, play and essay. In this course students will focus on strengthening skills in critical thinking, grammar, writing, research, vocabulary and test taking strategies. In addition, students will analyze and practice writing descriptive, narrative, expository and persuasive essays. Course requirements include comprehensive research activities and independent readings. Each year students must improve their reading, writing, thinking, speaking, presenting, listening and media awareness skills.
Throughout the course preparations for the SAT and state assessment will be ongoing. An interdisciplinary approach to teaching continues to be an integral part of the curriculum.

C. P. English III (Weight 2)  
C.P. English III focuses on the study of American literature. This course emphasizes the developmental skills necessary to enhance the students’ abilities to read critically and to understand not only the literature, but also the history that helped shape the prose and poetry of its various periods. Literacy skills include the structure of the novel, poem, short story, play and essay. In this course students will focus on strengthening skills in critical thinking, grammar, writing, research, vocabulary and test taking strategies. In addition, students will analyze and practice writing descriptive, narrative, expository and persuasive essays. Course requirements include research activities and independent readings. Throughout the course preparations for the SAT and state assessment will be ongoing. An interdisciplinary approach to teaching continues to be an integral part of the curriculum.

English III – (Weight 1)  
English III follows the development of American literature from early America to the present. The students will continue to reinforce and further develop writing and literary skills. The writing skills that are stressed are the principles of effective expression, i.e., the presentation and logical development of an idea, effective sentence and paragraph structure, and different types of writing. In addition to the traditional literature-based writing component, students will engage in cross-curricular writing. Some of the literary genres that will be studied this year are the following: short story, non-fiction, poetry, drama, novel, and essays. Preparation for standardized testing, vocabulary development, and grammar are also covered. Twenty-first century critical thinking skills are also stressed. Consideration is given to students’ learning styles. Classroom serves as a small group learning environment. Modifications and accommodations are made in accordance with students’ IEPs. Supplemental materials are also available.

College Level English Composition 101 (Weight 4)  
*This course will only be offered on RCGC’s campus.

This course provides students with extensive guided experience in writing essays. The course emphasizes the writing process; critical reading and thinking skills; and the concepts of audience, purpose and form. Attention is devoted to responsible research skills and the basic techniques of MLA documentation. *Must meet college Placement Test Exemption (see page 9).

Honors English IV (Weight 3)  
Honors English IV focuses on the study of English literature as well as the historical background from the Anglo-Saxon period through the 20th Century. Selected masterpieces from world literature may be also included. The writing component remains literature based and will be further strengthened through a variety of writing assignments. Course requirements include more critical research activities and a research assignment. Each year students must improve their reading, writing, thinking, speaking, presenting, listening, and media awareness skills. An interdisciplinary approach to teaching continues to be an integral part of the curriculum.
Every genre of literature has its own conventions for expressing emotions, perceptions, information and biases. CP English IV students will explore various selections in print and electronic media that cover a full range of genres, forming a basis for critical thinking and creative problem solving. Existing composition and grammar skills will be reinforced through directed writing instruction. Students will learn the art of effective communication, the skill of sound decision making, and to accept and value views other than their own. As students explore many texts and identify the roles that language plays, they will understand that language is not only a means of communication but also a means to transfer specific knowledge about a particular subject. An interdisciplinary approach to teaching will be an integral part of the curriculum to provide students with enduring and relevant skills that meet the demands and rigor of current trends applicable to 21st century citizens.

English IV – (Weight 1) 5 credits
English IV follows the development of British literature from the Anglo-Saxon period through the Twentieth Century. The students will continue to develop their knowledge of literary terms and genres as well as their skills in speaking, listening, writing, critical thinking and vocabulary. Attention will be given to reading and writing across the curriculum. Twenty-first century critical thinking skills are also stressed. Consideration is given to students’ learning styles. Classroom serves as a small group learning environment. Modifications and accommodations are made in accordance with students’ IEPs. Supplemental materials are also available.

MATHEMATICS

Foundations of Algebra I (Weight 1) 5 credits
This course is designed to provide students with the fundamental algebra skills that are necessary to be successful in their high school mathematics career. The students will be introduced to number sense and algebraic thinking, fractions and operations involving fractions, linear functions and inequalities, ratios and proportions, as well as percent and integers. Throughout the course, mathematical concepts will be taught with an emphasis on real/world application, technology, and cross/curricular interaction.

Algebra I – (Weight 1) 5 credits
This course is designed to provide students with comprehensive mathematical instruction necessary to succeed in future mathematics classes with the primary focus on algebraic elements. The students will be introduced to problem-solving strategies which makes use of variables and negative/positive integers. Students will develop the mathematical processes of problem solving, communicating, connecting and reasoning to problems. Students will be encouraged to apply classroom experiences to real world scenarios. Emphasis will be placed on practical math skills. Modifications and accommodations are made in accordance with each student’s IEP. Supplemental materials are also available.

CP Algebra I (Weight 2) 5 credits
Students in this course will be introduced to algebra through its relationship with science, the environment, social science, and real world scenarios. Topics such as basic math functions, order of operations, data and measurement, probability, ratio and proportions, equations and inequalities, functions and graphs, and open-ended questions will be explored. This developmental course is designed to develop student’s technological and problem solving abilities in the 21st century.
Honors Algebra I (Weight 3)  5 credits
This course is the foundation for all courses in advanced mathematical studies and is designed for students who have a solid foundation in basic arithmetic as well as knowledge and understanding of the real number system. Topics include: solving and graphing linear equations, operations with polynomials and exponents, systems of equations, rational and radical functions, probability, and open-ended questions. This developmental course is designed to develop student’s technological and problem solving abilities in the 21st century.

Geometry – (Weight 1)  5 credits
This course is designed to increase student success with geometry elements including polygons, triangles, circles, and three dimensional solids. The students will be introduced to problem-solving strategies involving spatial sense and geometric properties. Students will develop the mathematical processes of problem solving, communicating, connecting and reasoning to solve problems. Students will be encouraged to apply classroom experiences to real world scenarios. Algebra is a key factor in the class. Consideration is given to students’ learning styles. Modifications and accommodations are made in accordance with each student’s IEP. Supplemental materials are also available.

CP Geometry (Weight 2)  5 credits
This course will emphasize and focus on in-depth problem solving skills as well as an understanding of important geometric concepts through their connection to real world applications. Topics include: basic geometric tools, reasoning and proof, properties of polygons, triangles and circles, three dimensional solids, and transformations of polygons. This developmental course is designed to develop student’s technological and problem solving abilities in the 21st century.

Honors Geometry (Weight 3)  5 credits
Students will use terms and notations to convey geometric ideas. The course involves the relationship of points, lines, planes, and angles. Three dimensional figures and models are examined and surface area and volume will be explored. Students will be introduced to reasoning in mathematics through constructing formal proofs. Students will also develop congruencies between figures, similarities, areas of circles, polygons, and surface, as well as volumes of solids. This developmental course is designed to develop student’s technological and problem solving abilities in the 21st century. Prerequisite: Successful completion of Algebra I (earned a grade of B or higher).

Algebra II – (Weight 1)  5 credits
This course is designed to provide students with comprehensive mathematical instruction that builds upon concepts acquired in Algebra I. The students will be introduced to problem solving strategies to strengthen their skills in number sense, concept and applications, spatial sense, geometry, data analysis, probability, statistics, discrete mathematics, patterns, functions, and algebra. Consideration is given to students’ learning styles. Modifications and accommodations are made in accordance with each student’s IEP’s. Supplemental materials are also available.

Introduction to Algebra II (Weight 1)  5 credits
Intro to Algebra II is a continuation of Algebra 1. This course is designed to continue to build on algebraic concepts and geometric concepts. Systems of equations, polynomials, trigonometric functions as well as formulas to solve 3-dimentional figures will be explored. An emphasis is placed on real world math activities. Consideration is given to students’ learning styles. Modifications and accommodations are made in accordance with each student’s IEP’s. Supplemental materials are also available.
Introduction to Algebra II (Weight 2)  
5 credits
Introduction to Algebra II is a continuation of Algebra I, which is a pre-requisite to the course. This course is designed to build on algebraic and geometric concepts. Algebra skills will be developed using such skills as systems of equations, polynomials, imaginary and complex numbers, quadratics, and concepts and includes the study of trigonometric functions. The content of this course is important for students’ success in math graduation requirements. This course is only for students who need a third year math course and earned lower than a “B” in Algebra 1 and Geometry and have not taken Algebra 2 or higher math course. It is not designed for students whose future goals require higher level math courses or in lieu of a failed math course. Students must be recommended for this course by their former Math teacher.

CP Algebra II (Weight 2)  
5 credits
This course is designed to reinforce and build upon concepts studied in Algebra I. Concepts that are further explored include: the properties of systems of linear equations, matrices, and functions. Topics are evaluated using graphs, tables, and algebraic manipulation. Algebra II also continues to develop students’ logic and reasoning in problem solving. Applications in everyday situations are explored. This developmental course is designed to develop student’s technological and problem solving abilities in the 21st century.

Honors Algebra II (Weight 3)  
5 credits
Students will be exposed to a more rigorous and challenging approach to Algebra II. Concepts that are further explored include: the properties of systems of linear equations, matrices, and functions. Topics are evaluated using graphs, tables, and algebraic manipulation. Algebra II also continues to develop students’ logic and reasoning in problem solving. Applications in everyday situations are explored. This course is designed for the self-motivated student of mathematics who plans to pursue additional advanced mathematics courses, including Calculus. This developmental course is designed to develop student’s technological and problem solving abilities in the 21st century.  
Prerequisite: Successful completion of Honors Algebra I and Honors Geometry (with a grade of B or higher)

CP Pre-Calculus (Weight 2)  
5 credits
This course will focus on analyzing the graphs and trends of functions. The main topics covered will be polynomial, exponential, logarithmic, rational, radical, and trigonometric functions as well as vectors. Students who wish to continue to Honors Calculus should not enroll in CP Pre-Calculus.  
Prerequisite - Successful completion of Honors Algebra II (earned a grade of C or higher) or Successful completion of CP Algebra II (earned a grade of B or higher).

Honors Pre-Calculus (Weight 3)  
5 credits
This course will focus on analyzing the graphs and trends of both functions and non-functions. The main topics covered will be polynomial, exponential, logarithmic, rational, radical, and fundamental and analytic trigonometric functions as well as conic sections. It is extremely important that students be aware of the continuity of their education in mathematics. This course is intended to prepare students for Calculus.  
Prerequisite - Successful completion of Honors Algebra II (earned a grade of B or higher) or Successful completion of CP Algebra II (earned a grade of A with teacher recommendation).

Honors Calculus (Weight 3)  
5 credits
This is an introductory Calculus course. Students who are successful in this course will be prepared to study Calculus at the college level. In this course, students will be introduced to the theories of calculus while applying calculus techniques to solve application problems in a variety of areas. Students should possess a strong math background, especially in the areas of algebra and pre-
calculus. Students will explore limits, calculate derivatives, and find anti-derivatives. Prerequisite - Successful completion of Precalculus (earned a grade of B or higher).

**CL Calculus (Weight 4)**
5 credits
This is study of differential calculus and its applications. Topics include differentiation techniques of algebraic and transcendental functions, rates of change, maxima and minima, mean-value theorem and an introduction to integral calculus. *Must meet college Placement Test Exemption (see page 9).*

**Honors Probability and Statistics (Weight 3)**
5 credits
This course is designed to explore descriptive statistics, probability, and inferential statistics and includes applications of statistics for students of all career areas. Students will be required to use classroom lessons to build knowledge of how statistics and probability are used in everyday life. This course will be used primarily for students who want to continue an academic career in mathematics, but not through calculus. Prerequisite - Successful completion of either Honors or CP Algebra II (earned a grade of B or higher)

**SAT Math Preparation (Weight 2)**
5 credits
This course is designed to prepare students for the mathematics section of the SAT. This course will teach students the format of the test and provide both strategies and practice on questions pertaining to concepts from pre-algebra, algebra, and geometry. This course will include a discussion of the effective use of a graphing calculator. Prerequisite – Have taken or currently taking Algebra II. If the SAT has been taken, you must have scored below a 700 on the math section.

**FITNESS FOR LIFE**

All students are required by state law to take a course in Physical Education each year of attendance in High School. Students may only be excused from participation (alternate assignments will be given) in these classes if documentation is provided by a physician.

*NOTE:* Students will be expected to dress properly for Physical Education classes, consistent with approved procedures and guidelines.

**Fitness for Life I (Weight 1)**
5 credits
Fitness for Life teaches a proactive approach to health and wellness. The curriculum identifies and establishes those behaviors that are necessary to lead a healthy lifestyle now and to acquire the decision-making tools needed to choose healthy behaviors throughout each stage of life. The topics embedded in the Fitness for Life course of study include: an introduction to health and wellness, the ability to make responsible decisions, physical fitness and exercise programs (based on Fitness Gram), nutrition principles, weight management, eating disorders, risk for heart disease and community health opportunities. Students are active in a variety of exercise modalities that promote motivational, fun, and functional fitness.
Fitness for Life II (Weight 1)  
Fitness for Life II continues to emphasize the importance of exercise and the myriad of modalities that can aid students in achieving a consistent exercise program. Both health and skill related fitness components are taught and experienced. Fitness Gram continues to be used as a basis of evaluation and goal setting. Certified instructors offer the New Jersey State defensive driving course. Students have the opportunity to successfully complete the NJ written driver’s test in this course.

Fitness for Life III (Weight 1)  
Fitness for Life III continues to reinforce healthy lifestyle choices through theory and practical experience. In addition, the course introduces the student to anatomy and physiology as it applies to exercise science. The skills needed to assess health risk factors and fitness levels are also examined. Fitness Gram is used as a baseline for this examination, but additional methods are considered also. Students also have the opportunity to earn the American Red Cross Lifeguard certification. The main focus of the course is earning the American Red Cross Professional Rescuer C.P.R and First Aid Certification.

Fitness for Life IV (Weight 1)  
Fitness for Life IV continues to explore and promote lifelong fitness habits through the understanding and application of health and skill related fitness components. Students are assessed through Fitness Gram. Topics addressed in the course include mental and emotional health, the misuse and abuse of drugs, alcohol, and tobacco. Other course topics include family life, sexuality, social life, and communicable and non-communicable diseases.

Fitness for Life III/Fitness for Life IV Sports/Independent Option (Weight 1)  
Certain students in their Junior and/or Senior year will have the opportunity to use athletics as their Fitness for Life requirement. All required coursework will be completed independently and outside the school day. Students must have participated in their particular sport both Freshman and Sophomore year and have received a grade of a “B” or higher in all previous Fitness for Life classes in order to be eligible for this option. Students must apply through the guidance office prior to the June 1, 2019 deadline.

College Level Physical Fitness Activities/Contemporary Health (Weight 4)  
*This course will only be offered on RCGC’s campus.

This course has two components: It is designed to improve cardiovascular fitness and muscular strength and endurance through participation in various activities (including aerobic exercise, weight training and circuit training) and to provide basic, related health and wellness information. The second part of this course provides student with a background in current health issues. Psychological health, human development, wellness, drug use and abuse, sexuality and family life, personal health, chronic and infectious diseases, environmental health, and consumerism. *Must meet college Placement Test Exemption (see page 9).
FAMILY LIFE REQUIREMENT

NJ Administrative Code requires all schools to provide Family Life Education. At the Gloucester County Institute of Technology, this instruction is provided as part of the 9th and 12th grade Fitness for Life curriculum.

SCIENCE

Honors Lab Physics I (Weight 3) 5 credits
This is a rigorous honors course that covers elements of physics including: dynamics, kinematics, circular motion, electricity, and gravitational force. Students are expected to demonstrate their understanding of the course objectives through analysis of concepts, application of formulas, and laboratory skills. Students will solve problems and conduct investigations both individually and as members of cooperative groups. All students are expected to have a calculator.

CP Lab Physics I (Weight 2) 5 credits
This is a college preparatory level course that covers elements of physics including: dynamics, kinematics, circular motion, electricity, and gravitational force. Students are expected to demonstrate their understanding of the course objectives through analysis of concepts, application of formulas, and laboratory skills. Students will solve problems and conduct investigations both individually and as members of cooperative groups. All students are expected to have a calculator.

Lab Physics I – (Weight 1) 5 credits
Lab Physics I will cover the interaction of motion and forces in the study of kinematics, dynamics, circular motion, gravitational force and electricity. Students are expected to demonstrate their understanding of the course objectives through analysis of concepts, application of formulas, and laboratory skills. Students will solve problems and conduct investigations both individually and as members of cooperative groups. There is ongoing review/reinforcement of key concepts. Consideration is given to students’ learning styles. Modification and accommodations are made in accordance with students; IEP supplemental material is also available. All students are expected to have a calculator.

Honors Physics II (Weight 3) 5 credits
Honors Lab Physics II is a continuation of the study of Physics I. It is a rigorous honors level course covering topics including magnetism, waves (light & sound), and fluids. Students will work in small groups to develop their scientific skills through projects and lab investigations. Students are required to have a calculator. Prerequisite - Successful completion of either Honors Physics I (earned a grade of B or higher)

Honors Lab Chemistry (Weight 3) 5 credits
This course approaches chemistry as a qualitative and quantitative study of the interactions of matter on the subatomic and molecular level. It will begin with the most fundamental of chemical units, the atom. Students will be involved in laboratory research, problem solving, and classroom presentations. Problem solving is essential in defining the intrinsic quantitative nature of chemistry. All students must have a scientific calculator capable of working with exponents. The course is intended for serious and inquisitive students desiring to broaden their knowledge of the physical world.
CP Lab Chemistry (Weight 2)  
5 credits
Through laboratory experiences, discovery, and classroom presentations, this college preparatory course treats chemistry as a qualitative and quantitative study of the interactions of matter on the subatomic and molecular level. It will begin with the most fundamental of chemical units, the atom. Problem solving involving basic algebra will be used to introduce the quantitative nature of chemistry. All students must have a scientific calculator capable of working with exponents.

Lab Chemistry – (Weight 1)  
5 credits
Through laboratory experiences, discovery, and classroom presentations, this course treats chemistry as a qualitative and quantitative study of the interactions of matter on the subatomic and molecular level. It will begin with the most fundamental of chemical units, the atom. Problem solving involving basic algebra will be used to introduce the quantitative nature of chemistry. There is ongoing review/reinforcement of key concepts. Consideration is given to students’ learning styles. Modification and accommodations are made in accordance with students’ IEPs. All students must have a scientific calculator capable of working with exponents.

Honors Lab Chemistry II (Weight 3)  
5 credits
Through inquiry-based problems, traditional laboratory experiences, and classroom presentations, this elective course continues the exploration of chemistry begun in Lab Chemistry. Students will explore solutions, chemical equilibrium, solubility and precipitation, acids and bases, oxidation reduction, thermodynamics, and an introduction to biochemistry. This honors level course is intended for serious and inquisitive students desiring to further their exploration and understanding of chemistry. All students are required to have a scientific calculator capable of handling exponents. Lab Chemistry II is open to all students who have earned a B or higher in Lab Chemistry I.

College Level General Chemistry I (Weight 4)  
5 credits
This is a rigorous college level introduction to chemistry. Topics covered include atomic and molecular structure, bonding, periodic law, chemical reactions, stoichiometry, enthalpy, kinetic molecular theory and gas laws, and solution chemistry. Students will be involved in laboratory research that supports topics covered in the course. Students are required to have a calculator.

*Must meet college Placement Test Exemption (see page 9).

Honors Lab Biology (Weight 3)  
5 credits
This is a rigorous honors course emphasizing biological research and analysis. The course reviews concepts from life science and moves on to pursue Biology topics in more depth. The course focuses on ecology, biochemistry, cellular processes, genetics, evolution, current research, and environmental issues. Students will work in small groups to develop their scientific skills through projects and lab investigations. Students are required to take the NJ End of Course exam in May.

C.P. Lab Biology (Weight 2)  
5 credits
This is a rigorous college preparatory level course emphasizing biological research and analysis. The course reviews concepts from life science and moves on to pursue Biology topics in more depth. The course focuses on ecology, biochemistry, cellular processes, genetics, evolution, current research, and environmental issues. Students will work in small groups to develop their scientific skills through projects and lab investigations. Students are required to take the NJ End of Course exam in May.
Lab Biology – (Weight 1) 5 credits
This course emphasizes biological research and analysis. The course reviews concepts from life science and moves on to pursue Biology topics in more depth. The course focuses on ecology, biochemistry, cellular processes, genetics, evolution, current research, and environmental issues. Students will work in small groups to develop their scientific skills through projects and lab investigations. There is ongoing review/reinforcement of key concepts. Consideration is given to students’ learning styles. Modification and accommodations are made in accordance with students; IEP supplemental material is also available. Students are required to take the NJ End of Course exam in May.

College Level General Biology (Weight 4) 5 credits
This course offers an investigative approach to the science of biology involving the molecular structure and function of the cell. This is extended to the tissue level of organization and coordinated with the total organism. Emphasis is on nutrition and energy release in an attempt to note the importance of bio-energetics to the cell and organism at large. Laboratory exercises parallel lecture and reading assignments. *Must meet college Placement Test Exemption (see page 9).

Honors Advanced Topics in Biology (Weight 3) 5 credits
This is an honors elective course emphasizing biological research and analysis. The course briefly reviews concepts from life science and moves on to pursue biology topics in more depth. The course focuses on ecology, biotechnology, genetics, evolution, current research and environmental issues, and study skills for science class environments. Students who wish to independently investigate some of their own interests in biology are encouraged to enroll.

Honors Anatomy & Physiology (Weight 3) 5 credits
Honors Physiology is a lab science elective designed for students interested in the structure and function of the human body. Biological principles and medical terminology will be included as students develop an understanding of how structure is related to function. Applications of physiology to lifelong wellness and safe work practices will be explored. Pre-requisite: successful completion of Honors Lab Biology.

SOCIAL STUDIES

Honors U. S. History I (Weight 3) 5 credits
Honors United States History I course will examine the political, economic and social forces from Colonization through World War I and the Roaring Twenties. The various events and ideas of the past will be compared to society today. In addition, the class will facilitate student research utilizing a variety of media sources. This includes primary and secondary historical documents and materials. Special attention will be placed on how these resources, documents, and skills relate to the diverse amount of current themes and events. At the honors level, students will be expected to demonstrate higher-level critical thinking skills, listening skills, note taking skills but most importantly reading skills. Lastly, students will be required to participate in class discussions and activities.
C.P. U. S. History I (Weight 2)  
C.P. United States History I course will examine the political, economic, and social forces from Colonization through World War I and the Roaring Twenties. The various events and ideas of the past will be compared to society today. In addition, the class will facilitate student research utilizing a variety of media sources. This includes primary and secondary historical documents and materials. Special attention will be placed on how these resources, documents, and skills relate to the diverse amount of current themes and events. Higher-level critical thinking skills, listening skills, and note taking skills will be emphasized.

U.S. History I – (Weight 1)  
The United States History I course will examine the political, economic, and social forces from Colonization through World War I and the Roaring Twenties. The course is designed to provide students with the analytical skills and knowledge necessary to deal critically with the problems and materials in American history. Technological resources such as laptops and Smart Board will be used to promote active learning and to support ongoing review and reinforcement of key concepts. Consideration is given to students’ learning styles and supplemental materials are available. Modification and accommodations are made in accordance with students’ IEPs.

Honors U. S. History II (Weight 3)  
Honors United States History II surveys the course of events from the Great Depression through Contemporary United States: International Policies and Interconnected Global Society (1970-Today). The course will concentrate on the social, political, economical, and technological aspects of this time period. The various events and ideas of the past will be analyzed and evaluated in terms of their correlation to society today. In addition, the class will facilitate student research utilizing a variety of media sources. This includes primary and secondary historical documents and materials. Special attention will be placed on how these resources, documents, and skills relate to the diverse amount of current themes and events. At the honors level, students will be expected to demonstrate higher-level critical thinking skills, listening skills, note taking skills, but most importantly reading skills. Lastly, students will be required to participate in class discussions and activities.

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U.S. History II – (Weight 1)  
United States History II surveys the course of events from the Great Depression through Contemporary United States: International Policies and Interconnected Global Society (1970-Today). The course will concentrate on the social, political, economic, and technological aspects of this time period. Technological resources such as laptops and Smart Board will be used to promote active learning and to support ongoing review and reinforcement of key concepts. Consideration is given to students’ learning styles and supplemental materials are available. Modification and accommodations are made in accordance with students’ IEPs.
**College Level World History (Weight 4)**  
5 credits  
This college course is the study of American political, social, and intellectual development from 1865 to the present. Topics include Reconstruction, industrial and transportation revolution, labor movement, the crisis in agriculture, expansion and the new Manifest Destiny, and problems of the twentieth century. *Must meet college Placement Test Exemption (see page 9).*

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**Honors World History & Cultures (Weight 3)**  
5 credits  
Honors World History course prepares students to be citizens of an increasingly interdependent world and to compete in the global marketplace. Students will gain an understanding of the historical and cultural development of the western and non-western worlds from the emergence of the modern world to the modern age. In addition, the class will facilitate student research utilizing a variety of media sources. This includes primary and secondary historical documents and materials. Special attention will be placed on how these resources, documents, and skills relate to the diverse amount of current themes and events. At the honors level, students will be expected to demonstrate higher-level critical thinking skills, listening skills, and note taking skills but most importantly reading skills. Lastly, students will be required to participate in class discussions and activities.

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**CP World History & Cultures (Weight 2)**  
5 credits  
CP World History course prepares students to be citizens of an increasingly interdependent world and to compete in the global marketplace. Students will gain an understanding of the historical and cultural development of the western and non-western worlds from the emergence of the modern world to the modern age. In addition, the class will facilitate student research utilizing a variety of media sources. This includes primary and secondary historical documents and materials. Special attention will be placed on how these resources, documents, and skills relate to the diverse amount of current themes and events. Higher-level critical thinking skills, listening skills, and note taking skills will be emphasized.

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**World History & Cultures – (Weight 1)**  
5 credits  
The World History course prepares students to be citizens of an increasingly interdependent world and to compete in the global marketplace. Students will gain an understanding of the historical and cultural development of both the western and non-western worlds from the emergence of the modern world to the modern age. Technological resources such as laptops and Smart Board will be used to promote active learning and to support ongoing review and reinforcement of key concepts. Consideration is given to students’ learning styles and supplemental materials are available. Modification and accommodations are made in accordance with students’ IEPs.
**WORLD LANGUAGES**

**NOTE:** Two years of the same World Language are usually recommended for admission into most colleges offering Bachelor’s Degrees.

**CP Italian I (Weight 2)**
5 credits
CP Italian I is an introduction to the Italian language and culture. This course emphasizes the use of vocabulary, spoken accent, grammar, and syntax and cultural information all in context so that students can read, write, speak, and understand the language at a basic level. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century.

**Honors Italian I (Weight 3)**
5 credits
Honors Italian I is an introduction to the Italian language and culture. This course emphasizes the use of vocabulary, spoken accent, grammar, and syntax and cultural information all in context so that students can read, write, speak, and understand the language at a basic level. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century. This class moves at a faster pace than CP Italian I course allowing opportunities for enrichment.

**CP Italian II (Weight 2)**
5 credits
CP Italian II builds upon the knowledge and the skills gained in CP Italian I. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary and cultural information is expected. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century. (Prerequisite: Successful completion of CP or Honors Italian I)

**Honors Italian II (Weight 3)**
5 credits
Honors Italian II builds upon the knowledge and the skills gained in Honors Italian I. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary is expected. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century. This class moves at a faster pace than CP Italian II course allowing opportunities for enrichment. (Prerequisite: Successful completion of Italian I, earned a grade of a B (84) or higher)
Honors Italian III (Weight 3)  
5 credits
The course is a continuation and recycling of knowledge acquired in Italian I and Italian II, as well as an introduction to new vocabulary, more rigorous grammar structures, and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses, and grammatical concepts all in cultural context. Students will view Italian language films and read selected Italian literature. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century. (Prerequisite: Successful completion of Italian II, earned a grade of B (84) or higher)

Italian Culture & Conversation (Weight 3)  
5 credits
Have you taken three years of Italian already? Do you just want to speak Italian and really become fluent? This is the course for you! This course will definitively help you to improve your Italian speaking skills by immersing yourself into scenarios where you will have to express your opinions, defend your ideas, accept invitations and/or provide your perspective on culturally relevant topics. You will speak on a variety of themes, perfecting your Italian accent and learning conversational phrases. There is minimal writing and reading in this course and more culture and dialogue focusing on real-life situations and scenarios. This course is ideal for students who want to travel abroad after high school, simply converse in Italian, and/or continue with the language but are not interested in the academics of the level IV of the language. (Prerequisite: Successful completion of Italian III)

Honors Italian IV (Weight 3)  
5 credits
Honors Italian IV is an advanced level course that is designed to increase the student’s communication skills, writing skills, and cultural awareness of the Italian language and culture. It will train students in higher-level abilities, emphasizing comprehension of vocabulary, speaking, listening, reading, and writing. Presentation of cultural topics and current events will increase the student’s knowledge of Italy and its people. Students, in small or large groups, will be required to participate and interact in conversational Italian. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century. (Prerequisite: Successful completion of Italian III, earned a grade of a B (84) or higher)

Honors Latin I (Weight 3)  
5 credits
Latin lives in the Latin class. Students will learn grammatical constructions and vocabulary. They will also study Roman culture, history, and mythology. Students compare and contrast the ancient Mediterranean cultures as well as comparing ancient to modern cultures. The result of the student’s study of Latin is improved knowledge of both English vocabulary and grammar, an expanded understanding of the relationship of the ancient world to his or her own, and appreciation of other foreign languages and culture. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through authentic tasks and resources, purposefully giving the students opportunities to use the language in other disciplines and to prepare them for global interactions of the 21st century.
**Honors Latin II (Weight 3)**
5 credits
Students continue their study of a language still alive and cherished. In Latin II students will study more advanced Latin grammar and vocabulary as well as Roman culture, history, and mythology. In addition to Roman studies, the students will continue to compare and contrast some of the ancient cultures, continuing to learn the major contributions of each. The result of the student’s study of Latin is improved knowledge of both English vocabulary and grammar, an expanded understanding of the relationship of the ancient world to his or her own, and appreciation of other foreign languages and culture. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through authentic tasks and resources, purposefully giving the students opportunities to use the language in other disciplines and to prepare them for global interactions of the 21st century. **Prerequisites:** Successful completion of Latin I.

**Honors Latin III (Weight 3)**
5 credits
Latin lives on in the Latin III class. Building upon lessons from Latin II, this course continues to develop the linguistic skills of the language, an understanding of the history of the Greco-Roman civilizations, and an appreciation of the cultural developments of the classical world. Students will expand their knowledge of Latin grammar, strengthen their comprehension and translation skills, enhance their oral and written language, and enrich their English vocabulary. Additionally, students will increase their awareness of the contributions of classical civilization to the Western world and broaden their perspective on life and language. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through authentic tasks and resources, purposefully giving the students opportunities to use the language in other disciplines and to prepare them for global interactions of the 21st century. **Prerequisites:** Successful completion of Latin II.

**Honors Latin IV**
5 credits
Continuing the exploration of Latin literature and culture, students explore various literary styles and become acquainted with several Latin authors through a survey of Latin literature, a review of major grammatical forms, and continued study of English derivatives. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through authentic tasks and resources, purposefully giving the students opportunities to use the language in other disciplines and to prepare them for global interactions of the 21st century. **Prerequisite:** Successful completion of Latin III, earned a grade of a B (84) or higher.

**Spanish I – (Weight 1)**
5 credits
Spanish I is an introduction to the Spanish language and culture. This course emphasizes the use of vocabulary, spoken accent, grammar and syntax, and cultural information all in context so that students can read, write, speak, and understand the language at a basic level. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century. Modifications and accommodations are in accordance with students’ IEPs. Consideration is given to students’ learning styles in small group environment.
**CP Spanish I (Weight 2)  5 credits**

CP Spanish I is an introduction to the Spanish language and culture. This course emphasizes the use of vocabulary, spoken accent, grammar and syntax, and cultural information all in context so that students can read, write, speak, and understand the language at a basic level. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century.

**Honors Spanish I (Weight 3)  5 credits**

Honors Spanish I is an introduction to the Spanish language and culture. This course emphasizes the use of vocabulary, spoken accent, grammar and syntax, and cultural information all in context so that students can read, write, speak, and understand the language at a basic level. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century. *This class moves at a faster pace than CP Spanish I course allowing opportunities for enrichment.*

**CP Spanish II (Weight 2)  5 credits**

CP Spanish II builds upon the knowledge and the skills gained in CP Spanish I. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary and cultural information is expected. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century. *(Pre-requisite: Successful completion of Spanish I)*

**Honors Spanish II (Weight 3)  5 credits**

Honors Spanish II builds upon the knowledge and the skills gained in Honors Spanish I. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary and cultural information is expected. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century. *This class moves at a faster pace than CP Spanish II course allowing opportunities for enrichment.* *(Pre-requisite: Successful completion of Spanish I, earned a grade of a B (84) or higher)*

**Honors Spanish III (Weight 3)  5 credits**

The course is a continuation and recycling of knowledge acquired in Spanish I and Spanish II, as well as an introduction to new vocabulary, more rigorous grammar structures, and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses, and grammatical concepts all in cultural context. Students will view Spanish language films and read selected Spanish literature. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century.
Spanish Culture & Conversation (Weight 3)  5 credits
Have you taken three years of Spanish already? Do you just want to speak Spanish and really become fluent? This is the course for you! This course will definitively help you to improve your Spanish speaking skills by immersing yourself into scenarios where you will have to express your opinions, defend your ideas, accept invitations and/or provide your perspective on culturally relevant topics. You will speak on a variety of themes, perfecting your Spanish accent and learning conversational phrases. There is minimal writing and reading in this course and more culture and dialogue focusing on real-life situations and scenarios. This course is ideal for students who want to travel abroad after high school, simply converse in Spanish, and/or continue with the language but not interested in the academics of the level IV of the language. (Prerequisite: Successful completion of Spanish III)

Honors Spanish IV (Weight 3)  5 credits
Honors Spanish IV is an advanced level course that is designed to increase the student’s communication skills, writing skills, and cultural awareness of the Spanish language and culture. It will train students in higher-level abilities, emphasizing comprehension of vocabulary, speaking, listening, reading, and writing. Presentation of cultural topics and current events will increase the student’s knowledge of Spanish – speaking countries and their people. Students, in small or large groups, will be required to participate and interact in conversational Spanish. The effective use of technology and interdisciplinary connections helps students to develop language and communicative proficiency through real-life communication, authentic tasks and resources, purposefully giving the students opportunities to use the language beyond the classroom and to prepare them for global interactions of the 21st century. (Prerequisite: Successful completion of Spanish III, earned a grade of a B (84) or higher)
ELECTIVES

Please note: Elective courses require a minimum of 12 students to run each semester. If enrollment does not meet 12 students, the course will close.

ALLIED HEALTH

Lifespan Development (Weight 1) 5 credits
Development refers to the changes that take place from conception to death. We will study the process of growth, building a strong foundation by deeply exploring developmental milestones, including sensory awareness and language development. Different subtopics will be emphasized in each lifespan stage such as sign language for children, infant massage and preparation for the last stage of development, death. Students will be eligible to take a test to become an infant massage instructor upon completion. Student will be responsible for the yearly license fees. This license should open many doors to the student, once they are 18, such as being a cuddler in a hospital setting, teaching classes at local centers and hospitals or volunteering to teach infant massage at homeless shelters.

Personal Training I (Weight 3) 5 credits
Personal training is a course where students will have the opportunity to earn an American Council on Exercise’s Personal Trainer Certification. This course is designed to give students the knowledge and understanding necessary to prepare for the ACE Personal Trainer Certification Exam and become effective personal trainers. This course presents the ACE Integrated Fitness Training Model as a comprehensive system for designing individualized programs based on each client’s unique health, fitness, and goals. The information covered by this course and the ACE IFT Model will help students learn how to facilitate rapport, adherence, self-efficacy and behavior changes in clients, as well as design programs that help clients to improve posture, movement, flexibility, balance, core function, cardio respiratory fitness, and muscular endurance and strength. After this course, students will understand the most current, complete picture of the knowledge, instructional techniques and professional responsibilities personal trainers need to provide safe and effective exercise instruction to their clients. Students will be responsible for designing and supervising exercise programs. Students will also be certified in CPR/AED for the Professional Rescuer and First Aid. This course will run similar to an online college course with meeting, classroom instruction, labs and independent study, research and assignments.

AUTOMOTIVE

Automotive Technology Specialization III (Weight 2) 15 credits
This course challenges seniors in the automotive technology careers to further their knowledge on advanced automotive concepts. Students will be focusing on building their knowledge on advanced electrical and electronics, advanced engine performance and hybrid technology systems. Workplace readiness skills are also cover throughout the school year. Topics covered are: properly completing job applications, resume writing skills, and interviewing skills. Opportunities for School to Work placement may be available to any applicable students.
Collision Repair Technology III (Weight 1)  
15 credits

In this course students will be learning the fundamentals of automotive restoration and customization. Students will be learning repair techniques and developing hands on skills used in the automotive industry. The students will be incorporating knowledge and skills learned in the Automotive and Collision specialization areas. Upon completion, students will have working knowledge and skills in the following areas: shop safety practices, tool and fastener usage, welding concepts, electrical principles, engine theory, automotive system operations, collision shop repairs, and custom paint design/refinishing. The primary purpose of this course is to give our 12th grade transportation students a challenging and unique work experience prior to leaving GCIT.

Small Engine Level III (Weight 2)  
15 credits

This course equips students with the knowledge and skill to troubleshoot, repair and maintain small engines and vehicle systems (compact diesel engines, motorcycles, ATV’s, marine engines, power equipment). Topics may include (but are not limited to) engine service and reconditioning; maintaining frames and suspension, wheels and brakes, and drive trains; servicing fuel, cooling, lubrication, exhaust, and electrical systems; performing tune ups; using hand, power, and overhaul tools, and reading and interpreting service manuals and parts catalogs. Students may also learn safety on the job, and employability skills.

RCGC Ford ASSET — senior year option (Weight 4)

The goal of this program is to provide graduates with theory and practice, through classroom study and internships, to qualify for immediate employment in the automotive industry, or to transfer to a four-year automotive management program. Ford ASSET, the Automotive Student Service Educational Training Program, is a cooperative agreement among the College, Ford Motor Company, and the Gloucester County Institute of Technology. ASSET is a full time, two-year curriculum composed of five, 20-week semesters. Alternating 10-week sessions of classroom instruction and paid dealership internships provide theory and practice that is necessary for a career in the automotive industry. Students interested in the Ford ASSET senior option must apply through Rowan College at Gloucester County as well as take and successfully pass the RCGC Accuplacer placement test in their junior year. Please see your guidance counselor for further information.

*Must meet college Placement Test Exemption (see page 9).*

Engines for Engineering Technology (Weight 2)  
5 credits

Students will build skills for success through research and hands-on work in a shop environment. Engines for Engineering Technology students will be exposed to a variety of different technologies. They will gain experience with using tools and equipment to perform work on mechanical and electrical engines. The units of study include: Shop safety, tools and equipment (including measuring equipment), engine and electrical fundamentals, engine and electrical system operation, system troubleshooting and repair. Students may qualify for an EETC Small Engine Certification.
BUSINESS

Business and Finance Capstone (Weight 3) 5 credits
The Business Capstone Project is a multi-faceted assignment that serves as a culminating academic experience for students. The Capstone Project is a long-term investigative project that allows students to combine their knowledge and skills and to show what they learned in their subject area. The Capstone project is a Marketing Plan for a new start up product/service and includes the following:
1. A research paper (Research about the product/service and the industry)
2. A portfolio (physical document of their research)
3. Market Research
4. Marketing Plan
5. Final Presentation

Business Management (Weight 1) 5 credits
This course is designed to provide students with a basic overview of Business Management. This course focuses on motivation and leadership, communication skills, negotiation and decision making skills, international business, business law and ethical decision making. Students will develop effective negotiating and decision making skills, and understand the correlation between the global economy and the global marketplace.

Financial Literacy (Weight 1) 5 credits
Financial Literacy is a course that acquaints students with basic financial planning concepts and illustrates how these concepts apply to everyday life. The program includes Financial Planning, Budgeting, Saving and Investments, Credit and Insurance.

Financial Literacy – On Line (Weight 1) 2.5 credits
Financial Literacy is a course that acquaints students with basic financial planning concepts and illustrates how these concepts apply to everyday life. The program includes Financial Planning, Budgeting, Saving and Investments, Credit and Insurance.

College Personal Finance (Weight 4) 5 credits
This course introduces the concepts and tools of managing personal finances. It assumes no prior study of economics, and is designed to help students understand how to establish a personal financial plan, plan for personal taxes, manage cash, use credit cards, understand consumer lending and insurance, and invest in stocks, bonds, and funds. *Must meet college Placement Test Exemption (see page 9).*

QuickBooks (Weight 2) 5 credits
QuickBooks is an online accounting software system used primarily by millions of entrepreneurs and small business owners globally to manage all of their business’s finances in one place. This course is designed for those students who want to start a new business or to streamline an existing family business. Students will learn how to manage daily business transactions such as creating invoices and sales receipts, tracking sales and inventory costs, processing payroll, paying bills, preparing bank reconciliations, and creating budgets and financial statements. Students will learn how to
navigate an online Accounting Program and have a hands on working knowledge of QuickBooks. Students will receive a certificate to show completion of the Quick Books Program.

**COMPUTER SCIENCE**  
**Security+ (Weight 4) 5 credits**  
Security+ is an online course that prepares students for the Security Pro certification exam and CompTIA's Security+ certification exam. Students learn how to secure a corporate network using a layered security model. Information Technology Senior students only.

**COSMETOLOGY**  
**Personal Skin Care and Make Up (Weight 1) 5 credits**  
This course is intended to educate students on proper care of the skin, Basic Facials, Make up application techniques, hairstyling techniques, and nail care. Safety and sanitation will also be included in this course. This is offered to Junior and Senior students NOT enrolled in Cosmetology.

**CULINARY**  
**Advanced Culinary Pathways (Weight 1) 5 credits**  
The Hospitality, Tourisms and Recreation Career Cluster focuses on entrepreneurship, culinary math, nutrition and wellness, garde manger, plate presentation, food innovations, public speaking, culinary project management, marketing, community leadership, restaurant operations, food/beverage services, lodging, recreation event planning, and hospitality travel-related services. All classes are held in the professional kitchen. Students will learn the front of the house and back. There will be competition opportunities as well as numerous guest speakers. Organizations involved are ProStart, FCCLA, and SkillsUSA members. **Prerequisite: Students must have a minimum of two years in the Culinary and/or Baking/Pastry Arts field.**

**Culinary/Baking Pastry Arts IV (Weight 2) Senior 15 credits**  
Culinary and Baking Pastry Arts IV is an opportunity for students to further enhance their skills that were acquired in Culinary and Baking Pastry Arts I, II and III. While employing all of the skills learned during the student’s freshman and sophomore year, students will be afforded the time to concentrate on particular areas of interest while refining their skills. The skills will include research and course work in the areas of grain, legumes, pasta, fish, shellfish, meat, poultry, yeast doughs, advanced cookies, tarts and special pastries, specialty cakes and cake decorating. During the student’s senior year, opportunities will be afforded to prepare a variety of specialized cakes, work with rolled fondant and artisan breads as well as experience International and American regional cuisines, garde manger, career investigation, nutrition, menus, and menu planning. This class is for senior culinary and baking/pastry arts students only.

**Cooking 101 (Weight 1) 5 credits**  
This course will explore different cooking techniques that are used throughout the kitchen. Topics covered are how to properly follow a recipe from start to finish, kitchen safety, fundamentals of food preparation and the relationship to preparation techniques and quality, basic math for recipe conversions, and food cost. Examples of recipes and foods that will be covered are breakfast foods, sandwiches, soups, appetizers, entrees and salads.
Cooking Around the World (Weight 1)  
This class will take you on a tour of the world’s different foods. Each week you will have the opportunity to cook and eat, two entrées, a soup, an appetizer, and a dessert from a different country. You will learn cooking skills, kitchen safety and sanitation and food customs. Examples of Countries: Thailand, Mexico, Poland, Germany, etc. Learn about the different cultures through food.

Exploratory Baking (Weight 1)  
Students enrolled in Exploratory Baking will be taught safety and sanitation daily during the time in class and in the bakeshop. They will work on products to create breads, cookies, pastries, and cakes using formulas and mixing methods learned in theory. Students will collaborate when working on small recipes, as well as large formulas used in a commercial bakery and will be introduced to measuring techniques using liquid measures, as well as dry measurements and scaling formulas on a balance scale. Technology-related mathematics, reading, writing, vocabulary, and science are integrated throughout the course.

DIGITAL MEDIA  
Animation & Special Effects (Weight 4)  
In this course students will learn about both traditional and computer animation and special effects and how they are used in media production. They will create their own short animations and special FX scenes. Projects will include: stop motion animation project, computer animation project, green screen project, split screen project and After Effects project. The student, upon successful completion, will have a demo reel of their finished work both in front of and behind the camera. (Prerequisite: Computer and/or Animation skills) Students may register though RCGC as an HSOP class. Please see your guidance counselor if you are interested.

Video Game Design (Weight 3)  
In this course students will learn the basics of creating video games. Projects will include: ‘forked’ storytelling project, text based role playing game, graphic based roll playing game, side scroll game and advanced game. The student, upon successful completion, will have playable versions of their finished work. (Prerequisite: Computer and/or Game Making skills)

ENGINEERING  
Engineering Capstone Project (Weight 3)  
Capstone is learning in action. As part of the core curriculum of the STEM Academy at GCIT, it provides students with a critical learning experience. Over the course of the class, students work in teams to solve a business problem - conduct research, design a solution, and build a prototype.

PERFORMING ARTS  
Additive Manufacturing & 3D Design (Weight 2)  
This S.T.E.A.M. course has many activities and exercises that enable students to put design concepts into practice. Students solve problems through collaboration, 3D Modelling, and 3D Printing. Ideas become reality in this course. Industrial 3D printing technologies are explored throughout this class. Three-Dimensional design and Additive Manufacturing are industries that are experiencing rapid growth and careers are in-demand. This course will offer an overview of the industrial-level additive manufacturing industry. Additionally, students will get training in Solidworks, an industry standard three-dimensional modelling program. We will also investigate 3D Printing (Additive Manufacturing). The curriculum aligns to certification for students who wish to pursue it.
Three-Dimensional design and Additive Manufacturing are industries that are experiencing rapid growth and careers are in-demand. This course will offer an overview of the industrial-level additive manufacturing industry. Additionally, students will get training in Solidworks, an industry standard three-dimensional modelling program. We will also investigate 3D Printing (Additive Manufacturing). The curriculum aligns to certification for students who wish to pursue it.  (Prerequisite: CADD I)

**Advance Acting Studies /Theater Hist. IV /Prod. IV (Weight 3) 15 credits**
Senior Drama majors will engage in advanced scene study and directing of student scenes in which they analyze text and put the analysis forth on stage. Students will have practical experience mounting a full production on stage. They will review and gain practical use of acting techniques including Stanislavski, Hagen, and Strasberg. In addition, students will explore Anne Bogart’s Viewpoints system and experimental approaches through movement, advanced vocal work, and improvisation. Students will gain historical perspective in various genres with an emphasis on Theater of the Absurd. Career related options will be explored such as production, design, directing, and arts management. In addition, students will complete a senior film project and prepare for State Exit Exams. Students will write, cast, direct, film, and act in a short feature film. Capstone of the course is an audition in front of college professors as well as a written exam on all 4 years of theatre history, theatre literature, and technical theatre. The student, upon successful completion, will have a (DVD) of their finished work both in front of and behind the camera. Independent study opportunities are also available at this level. Prerequisites: Successful completion of Drama I, II, III.

**Art for Engineers (Weight 1) 5 credits**
An introduction to the basic elements and principles of design for engineering students to improve their sketching and visualization skills. Students will develop spatial literacy, one-point perspective, two-point perspective skills, and 3D designs. Problem solving in variety of materials and creating 3D designs including assemblages, models, constructions, and conceptual forms.

**Art II (Weight 1) 5 credits**
Art II builds on concepts and skills taught in Introduction to Art. Units include elements of art and principles of design, still life drawing, advanced drawing techniques, figure drawing, pottery, color theory, painting, and sculpture. Students improve problem solving, decision-making, and critical thinking skills through study of art criticism, history, and production.
Prerequisite: Introduction to Art

**Automotive Arts (Weight 1) 5 credits**
This course is for the beginner level artist wishing to better their skills in the related arts used in the automotive/motorcycle and truck industry. Students will learn basic skills in the following areas: custom paint design layout and airbrush, metal parts design and fabrication and custom automotive applications. Starting with metal design and fabrication skills, students will work with various tools and welding equipment to shape, design, and sculpt custom projects. The next segment will focus on basic refinishing principals to prepare the students for work in custom painting. Students will learn how to complete a basic design sketch of a project for completion. They will learn basic techniques and fundamentals of airbrushing. Students will learn how to create stencils, use different medias and tools to create their own unique art designs. Students may work on a variety of subjects ranging from helmets, guitars, bowls, to car hoods and fenders. Other areas that will be
covered in Automotive Arts are stereo installation and lighting, body and trim modifications, suspension and wheel upgrades.

**Children’s Dance Instruction (Weight 1)**
5 credits
In this class, students will examine theories, methods, and assessment tools in the teaching of creative movement to children. This class will concentrate on the basics of movement learning, developmentally appropriate activities, lesson planning, and pacing in classroom instruction. Students are going to play the role of the student learning how to teach, the teacher teaching, and the student learning from others learning how to teach. You will gain knowledge and a deeper understanding of teaching creative movement to children that is applicable to a variety of settings: dance studios, summer camps, after-school programs, and daycares.

**College Level Oral Communications (Weight 4)**
5 credits
This course stresses principles and practices of oral communication, especially speaking to inform. The course includes consideration of voice and articulation, conversation and discussion. Emphasis is on preparation and presentation of speeches. *Must meet college Placement Test Exemption (see page 9).*

**Computer Graphics (Weight 1)**
5 credits
Students will utilize prior computer experience and graphic design knowledge as they learn the process and art of combining text and images to communicate an effective message. Through the use of industry-standard applications, students will design logos, graphics, brochures, newsletters, posters, signs, and other types of visual communication. Students will understand photo manipulation and pre-press production as it pertains to the overall business of a graphic design studio.

**Dance IV (Weight 3)**
15 credits
The students will continue to explore the primary disciplines of Ballet IV, Modern IV, and Jazz Dance/Rhythmic Concepts IV in a holistic way. The emphasis of the dance training will be on anatomically correct movement as it applies to dance technique. They will expand on their understanding of the use of the common elements of time, space and energy as they pertain to all dance forms. In addition, students will connect the history of Classical Ballet, Contemporary Ballet, Modern Dance, Post-Modern Dance, Jazz Dance, Theater Dance, and Vernacular Dance to gain insight on how dance effects our society. The students will explore the art of choreography using the compositional devices that they obtain in 11th grade to develop choreography. They will focus on the elements of dance (space, time, energy, and shape) in the process of making dances. The course will conclude in a choreographic work using other 12th grade students as well as 11th grade students in their dance.

**Digital Cinema I (Weight 1)**
5 credits
Have you ever wanted to make your own movie? The Digital Cinema course teaches student the fundamentals of digital video production. The end result? They will produce, direct, shoot, edit, and act in their own short movie. Projects include: short film production, how to edit dialogue, how to edit action and the production of a music video/photo montage. At the end of the course the student will create their own demo reel so they can show off their work.
Digital Cinema II (Weight 2)  5 credits

In Digital Cinema II students build upon the writing, producing, directing, shooting and editing skills they gained in Digital Cinema. Projects will include: writing & directing a short film, making a music video, creating a Public Service Announcement (PSA), and introduction to special effects. At the end of the course the student will create a demo reel of all of their work. (Prerequisite: Digital Cinema I)

Digital Design and Print (Weight 1)  5 credits

This senior level elective for Digital Communications students is designed to give real-world working experience as design and print professionals. Students will be given direction as they see projects through the graphic design process.

Digital Photography (Weight 1)  5 credits

Students will become well-rounded in the fundamentals of digital photography. Course instruction will focus on learning how a camera works, understanding composition, understanding lighting, and learning how to use Adobe Photoshop to edit and enhance an image. While receiving basic instruction, demonstration, and viewing sample photography, students will shoot assignments based on what they are learning and review peer shots in order to gain an understanding of what makes a successful photo. Students will gather and assemble a portfolio of their own photographs.

Media Design (Weight 1)  5 credits

An introduction to elements of design, spatial relationships, typography, and imagery as they apply to practical visual solutions for self-promotion, logo design, layout design, and sequential arrangements. This course instructs the student in media design skills employing traditional and digital tools, materials, and procedures employed in the communication arts industry. The focus will be on finding creative visual solutions to communication problems using technical skills and creating the GCIT yearbook. This course is heavily based on technology.

21st Century Art (Weight 1)  5 credits

Can you imagine creating art and having the whole world see it? You don’t consider yourself a “techie” but want to channel your creativity with 21st century tools like Photoshop? This class is for you! Apply your creativity to create digital compositions, an interactive computer game, and design three-dimensional objects and much more. In addition, we will explore art history, graphic design theory, web 2.0 concepts, and related digital arts technologies. No previous experience needed.

Introduction to Art (Weight 1)  5 credits

Introduction to Art is designed to develop an understanding of the processes and production of art, art history, criticism, and aesthetics. Students will be presented with studio projects and will execute their skills to best fit their ideas. Through the processes of art, students will work with several mediums, study master artists, learn how to investigate and interpret art. Students will focus on problem solving and enhancing their artistic abilities. The goal of this course is for students to become proficient and more confident in the use of their creative side and to develop a general appreciation for art, to develop the ability to use different art mediums, and to understand elements of art and design to the fullest potential.
Introduction to Dance (Weight 1) 5 credits
This course is intended for the non-dance major student. It is an introduction to the various styles and techniques within the area of dance. Students will participate in activities which will enhance their perceptual, intellectual, physical and technical skills. Costume use and choreography will also be introduced for a greater understanding of the entire range of dance concepts.

SOCIAL STUDIES

Criminal Justice (Weight 1) 5 credits
This course will offer a unique and in-depth look at the operation of Law Enforcement and the Criminal Justice system in the United States. Topics covered will include the evolution of law enforcement, contemporary law enforcement, challenges to the law enforcement profession, the courts, and the corrections system.

Honors Most Dangerous Time: The Cold War (Weight 3) 5 credits
After World War II, the United States and the Soviet Union spent years and billions of dollars in pursuit of allies who agreed with their respective ideologies. The U.S. supported democracy and free markets, while the Soviet Union advocated communism and a controlled economy. For nearly 45 years these two world political powers struggled for hearts and minds through beliefs, proxy wars, covert actions, and direct intervention. This course will attempt to make sense of all that transpired during this time period.

21st Century Leadership (Weight 3) 5 credits
This course will equip students with the leadership skills necessary for success in the 21st century. Designed with the 21st century leader in mind, this course will emphasize skills to prepare students for college, career, and life-long learning. From “hard” skills such as technology proficiency like digital media, social media, etc., to “soft” skills such as interview, speaking techniques, and group leadership, students will develop the skills necessary to succeed in today’s world. Course topics will also include development of ethical and character-based leadership. Students will practice these skills hands on and will use their skills to better the school.

WORLD LANGUAGE

CP Arte y Artesanía del Mundo Hispano (Arts & Handicrafts of the Hispanic World) (Weight 2) 5 credits
This course is designed for students who have a love for the vibrancy and richness of Hispanic art, culture and language. Students will learn about famous artists and artisans who helped shaped the world of art. Students will analyze, compare and evaluate artistic contributions in society. Students will explore art histories that have significantly influenced cultural genres and styles over time. A substantial focus of this course will be on the creation of student made art and handicrafts. In addition, students will use their art to impact others for the greater good. Some of the original works of art produced will be used for service learning projects in the school or the community. Units of study include: Art of the Maya, Aztec & Huichol; mosaics through the ages; famous Spanish artists; Mexican ceramics; famous Hispanic artists; and architectural styles. Students taking this course must demonstrate a foundational knowledge of the Spanish language by the successful completion of Spanish 1 & Spanish 2. (Prerequisites: Spanish 1 & Spanish 2. Students pursuing membership to the Spanish Honor Society should continue to Spanish 3. This course may be a senior elective or taken post level 4 for Spanish Honor Society membership requirements.)
Spanish & Latin American Dance (Weight 1)  
5 credits
Spanish and Latin American Dance is an expression of culture. In this course students will physically demonstrate an understanding of how select dances like flamenco, tango, and salsa evolved from their respective Spanish speaking countries. A historical review of critical cultural moments in Latin America and Spain will be reviewed. Students will watch cinematic interpretations of the dances, listen and identify the rhythm of the dances, design costumes that represent the dances, and present their favorite dance as a culminating project. (Prerequisite: Successful completion of Spanish I)

OTHER ELECTIVES

Independent Study (Weight 1) – Senior Option Only  
5 credits
Students may choose an independent study course. This is a course undertaken independently by the student with a faculty sponsor. It may be done in only specific subject areas. Prerequisites for this include having passed the PARCC requirement and a cumulative GPA of 3.0. An application, teacher recommendation and prior approval of the course is necessary. See your Guidance Counselor for more information.

School-to-Careers (Weight 1) – Senior Option Only
Seniors who are on track to graduate may participate in School-to-Careers. Students earn credit through employment in their career specific area. This is coordinated through the Guidance Counselor and the School-to-Careers office. Please see your Guidance Counselor for more specific information.