

# Roxbury School District



*Advanced Programming, Dual Enrollment &  
Professional Pathways*

## Reasons to take higher level courses

- Exposure to academic dialogue at the highest level
- Eases transition from high school to adult responsibilities
- Increases access to practice autonomy, agency, and independence
- Gives you opportunities to network with professionals in the field (both professional and in academia)
- Allows students the opportunity to explore future professional before having to commit to them
- Allows students to challenge themselves when they still have access to high school level supports



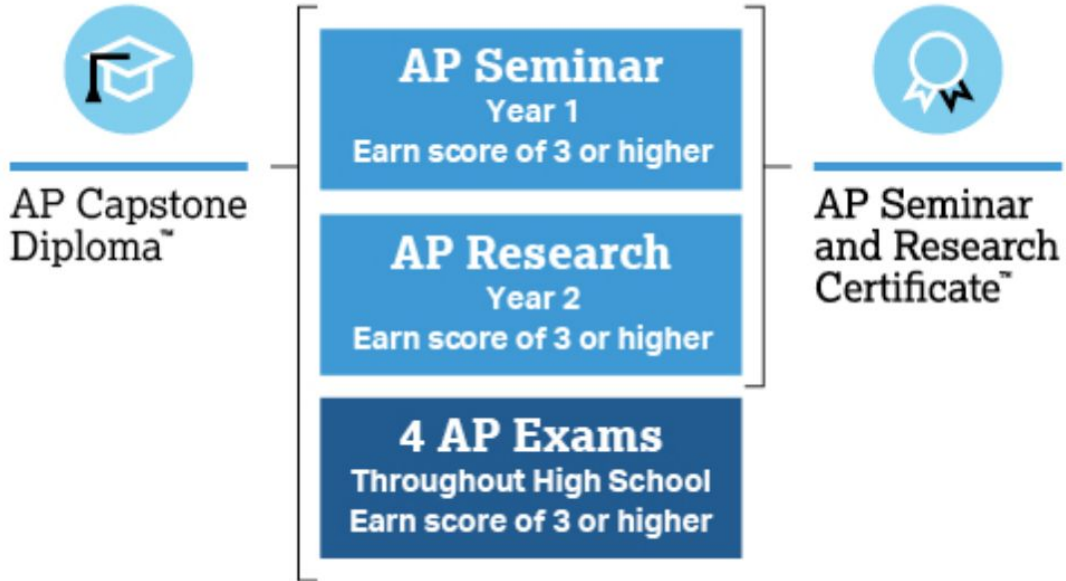
# Advanced Placement Offerings



AP Capstone™

Research, Academic Rigor, Distinction

**AP Capstone™**  
Research, Academic Rigor, Distinction



# AP Courses Offered

|  |                                    |                               |                         |
|--|------------------------------------|-------------------------------|-------------------------|
| <b>Biology</b>                                   | <b>Computer Science Principles</b> | <b>Physics C: Electricity</b> | <b>Statistics</b>       |
| <b>Calculus AB</b>                               | <b>English Lit/Comp</b>            | <b>Physics C: Mechanics</b>   | <b>Studio Art 2D/3D</b> |
| <b>Calculus BC</b>                               | <b>Environmental Science</b>       | <b>Psychology</b>             | <b>US Gov/Politics</b>  |
| <b>Chemistry</b>                                 | <b>European History</b>            | <b>Research</b>               | <b>US History</b>       |
| <b>Comparative<br/>Government &amp; Politics</b> | <b>French Language</b>             | <b>Seminar</b>                | <b>World History</b>    |
| <b>Computer Science A</b>                        | <b>Music Theory</b>                | <b>Spanish Language</b>       |                         |

# Impact of Dual Credit: Quick Facts

Dual credit is highly correlated to postsecondary degree attainment

Dual credit courses have a higher positive impact on students who start at a community college

Dual credit has a significant impact on attainment of college completion is even higher for low socio-economic students

Dual credit enrollees earn higher grades in college than non-dual credit enrollees

Dual enrollment courses have been shown to cut down on the financial burden of college



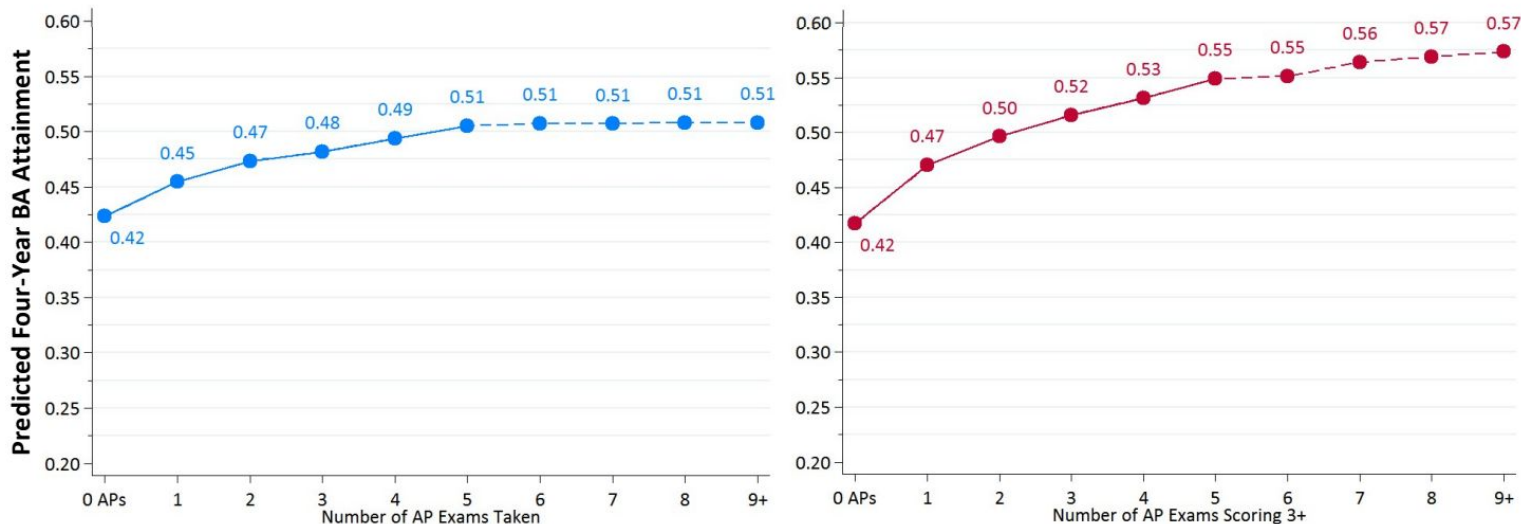
# Summary

Students who engage in a more rigorous academic program are exposed to learning opportunities that more closely mirror the post-high school program and thus are more prepared, more confident engaging in complex learning, and more likely to meet with success.



# College Board Research

## Additional APs Positively Relate to On-Time Degree Completion with a Leveling Off of Effects



**Notes:** Solid lines denote that the estimate for a given number of AP exams is statistically significant from the estimate for one fewer AP exam. Dotted lines denote that these estimates are not statistically different from each other. These predictions use the average SAT (1684.91 out of 2400) and HS GPA (3.63) of students.



# New Jersey Seal of Biliteracy

- The New Jersey Seal of Biliteracy is an honor that one can earn for his or her diploma for getting at least a 5 (out of 9) on all sections (reading, writing, speaking and listening) of the Seal of Biliteracy Test
- The test can be done junior or senior year; it is offered in all three languages that are taught at RHS as well as a vast number of other languages
- Earning the Seal of Biliteracy can also help one to obtain college credits for free (at an expanding list of colleges) and allow one to waive basic world language requirements in college



# Morris County School of Technology Academies



[mcvts.org](http://mcvts.org)

*Inspire. Prepare. Succeed.*

## Aviation Pathway



# Roxbury's Aviation Program

- Prepares students for their Private Pilot License
- Prepares students for their Part 107
- Exposes students to variety of career opportunities in the world of aviation
- Exposes students to guest speakers, field trips, and post secondary options
- Hands on experiences - drones, flight simulators, full motion simulators



## SPORTS MEDICINE/ PHYSICAL THERAPY SEQUENCE

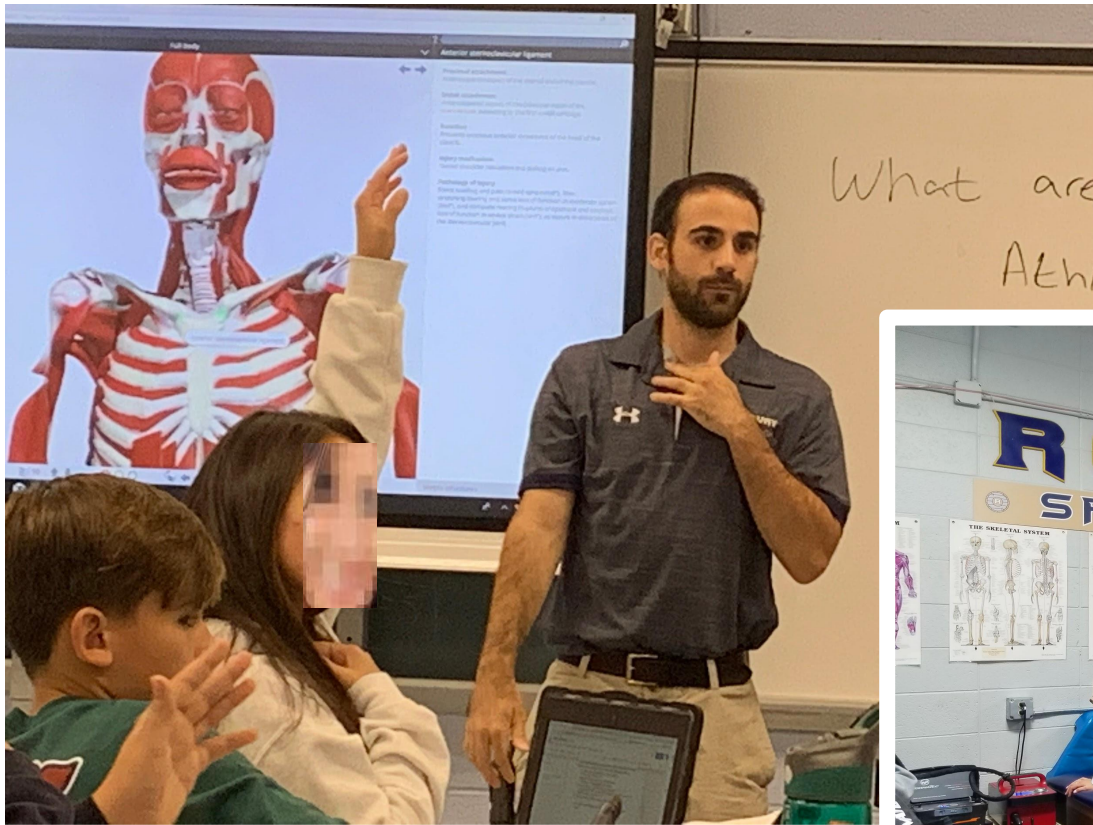
| YEAR 1 ELECTIVE CHOICES  | YEAR 2 ELECTIVE CHOICES                          | YEAR 3 ELECTIVE CHOICES             | YEAR 4 ELECTIVE CHOICES                                  |
|--|--|-------------------------------------|--|
| FOUNDATIONAL COMPONENTS OF ATHLETIC TRAINING & PHYSICAL THERAPY HONORS | PATHOLOGY & PREVENTION OF SPORTS INJURIES HONORS | KINESIOLOGY & ORTHOPEDIC ASSESSMENT | INJURY REHABILITATION MANAGEMENT & SURGICAL INTERVENTION |
|  |  | ANATOMY & PHYSIOLOGY HONORS         | <b>CHOICE ELECTIVE</b>                                   |
|  |  |                                     | INTRODUCTION TO EXERCISE SCIENCE                         |
|  |  |                                     | INTRODUCTION TO EXERCISE PSYCHOLOGY                      |



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# THE ACADEMY FOR SPORTS MEDICINE

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# Unique Clinical Experience (4 Years)

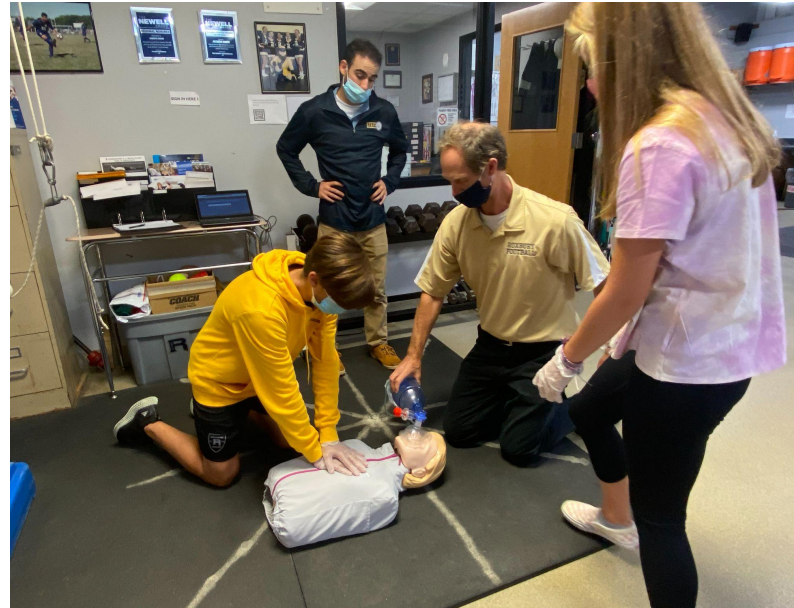


- Students get the chance to practice skills and apply the knowledge that they have learned in class.
- Goals such as focusing on communication and acting professional in a healthcare setting

Freshmen: 25 hours

Sophomores: 25 hours

Juniors: 30 hours



# Culminating Academic Options

(Grade 12)



- **College Option:**

- Providing students meet the academic criteria, they may attend County College of Morris for all courses and earn up to 24 credits paid for Morris County Vocational School District
- Morris County Vocational School is also in negotiations with Fairleigh Dickinson University to offer Sports Medicine Students a fully college option as well.

- **Continue at Roxbury High School for advanced courses/projects including:**

- Capstone Research Project in Athletic Training or Physical Therapy
- Continued access to AP and honors-level academic classes



# Dual Enrollment Career Pathways



# Tomorrow's Teachers



KEAN



**Exploration:** Explore various school settings such as inclusion, ESL, and Bilingual Education via field trips to school sites and shadow teaching.

**Commitment:** Examine beliefs and predispositions of self and others, historical and current issues in education, as well as the role of government and the courts play in school policy.

**Preparation:** Design and develop in-depth lesson plans and classroom demonstrations. Engage in preparation for the transition to college via skill-building and SAT review.

**Experience:** Participate in a formal internship, reflect on learning through journals and begin the edTPA portfolio.



CAREER  
PATHWAYS



ROX PROFESSIONAL

Excellence in Career Studies

## FUTURE EDUCATORS SEQUENCE

| YEAR 1 ELECTIVE CHOICES                              | YEAR 2 ELECTIVE CHOICES                              | YEAR 3 ELECTIVE CHOICES | YEAR 4 ELECTIVE CHOICES |
|--|--|-------------------------|-------------------------|
| FAMILY LIFE SKILLS<br>(previous Child Development 1) | CHILD DEVELOPMENT<br>(previous Child Development II) | TEACHING YOUNG CHILDREN | TOMORROW'S TEACHERS     |



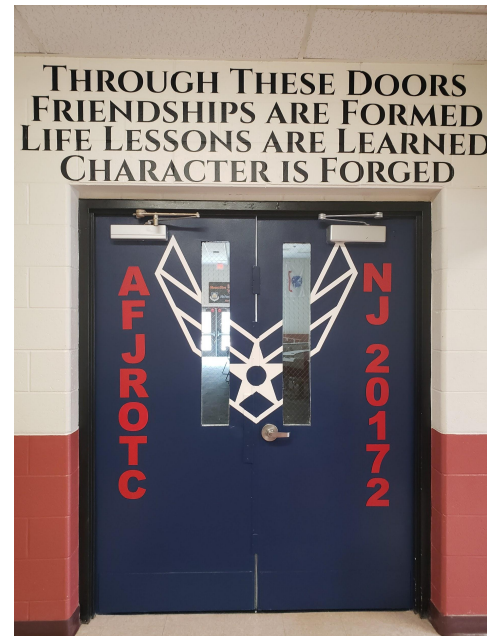


# Air Force Junior ROTC

- Cross Town agreement with Mount Olive HS
- Elective class focused on Leadership & Aerospace Science
- NO military obligation
- Utilizes military principles in teaching life skills for success
- Garner practical leadership experience to enhance resume
- Eligibility for unique JROTC extracurriculars & field trips

## Mission Statement

Develop citizens of character dedicated to serving their  
Nation & Community

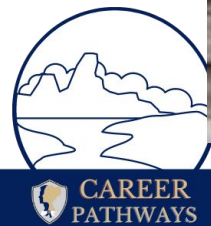


## AIR FORCE JROTC

| YEAR 1            | YEAR 2             | YEAR 3              | YEAR 4             |
|-------------------|--------------------|---------------------|--------------------|
| AIR FORCE JROTC I | AIR FORCE JROTC II | AIR FORCE JROTC III | AIR FORCE JROTC IV |







CAREER  
PATHWAYS



ROX PROFESSIONAL

Excellence in Career Studies



| Engineering, Design, and Technology Pathways |   |                              |  |
|--|---|------------------------------|--|
|  | Engineering                             | Woodshop                     | Structural Design & Fabrication                          |
| Step 1                                       | Engineering I                           | Woods 1                      | Engineering I and/or Woods I                             |
| Step 2                                       | Engineering II                          | Woods II                     | Intro to SDF (10th & 11th Graders Only)                  |
| Step 3                                       | Adv. Computer Design ( <b>Honors</b> )  | Woods III ( <b>Honors</b> )  | SDF ( <b>Honors</b> ) (12th Grade Only)                  |
| Step 4                                       | 3D Studio ( <b>Honors</b> )             | Woods IIII ( <b>Honors</b> ) |  |
| Relevant Electives to Consider               | Physics<br>Robotics<br>Entrepreneurship |                              | Intro to Business<br>Entrepreneurship<br>Design Thinking |





# Structural Design & Fabrication

- **Intro to SDF & SDF Honors**
- **Variety of skills** - plumbing, electrical, carpentry, roofing, painting
- Every 2 years **SDF Honors** completes a house for Morris Habitat for Humanity
- Exposes students to post-secondary options with unions, tech schools, colleges
- Provides students with industry certifications - OSHA 10 & Certified Commercial Solar Panel Installer



**ROX PROFESSIONAL**  
Excellence in Career Studies



**CAREER  
PATHWAYS**

# Dual Enrollment Academic Pathways





## College Writing with Rutgers University

College Writing is the required writing course for all students at Rutgers University-New Brunswick. In this course, students read and write about a variety of texts concerning a range of fascinating contemporary issues. By completing a series of essay assignments – each of which involves peer review and revision – students learn to read critically, analyze textual evidence, structure complex ideas, and develop independent arguments by making original claims that contribute to ongoing intellectual conversations.



- Environmental Science
- Geophysical Science Honors
- Biology Honors
- Chemistry Honors
- Physics Honors
- Anatomy & Physiology I Honors
- Pathology and Prevention of Sports Injuries
- Kinesiology and Orthopedic Assessment
- Intro to Athletic Training and Physical Therapy
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics C
- Astronomy
- Social Media Marketing
- Television Production



# We are the Health Sciences.

Science  
Knowledge

Apply  
Practical &  
Clinical  
Methods

Maintain  
and  
Improve  
Health

Adapted from

<https://www.publichealthonline.org/health-sciences/>

# Major: BS - Interprofessional Health Sciences

## 6 Foundation Courses

1. Introduction to Health Sciences & Health Careers
2. Professionalism, Practice, & Ethics for Healthcare Professionals
3. Social Determinants of Health
4. Legal Concepts for Healthcare Delivery
5. Statistics and Research in the Health Sciences
6. Promotion of Health and Wellness





- Concentrations
  - Exercise Science
  - Health Science Administration & Management



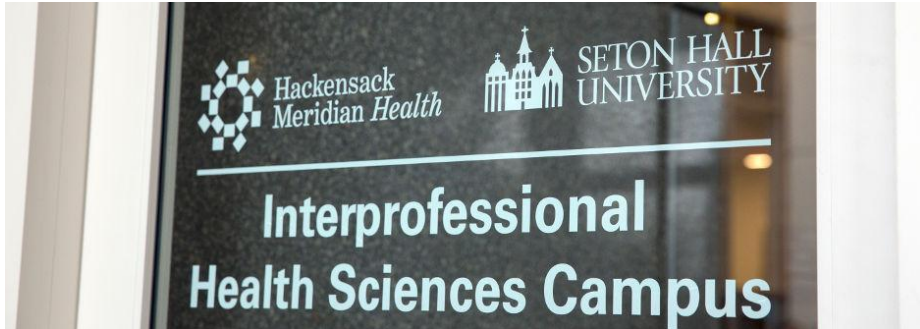
## Potential Health & Fitness Careers

- Health and Wellness Coordinator
- Exercise Physiologist
- Strength and Conditioning Coach
- Fitness/Gym Manager
- Sports Coach/Athletics Administrator
- Healthcare and Fitness Certifications
- Preparation Professional-Graduate Programs



- The Exercise Science concentration prepares you to take the exam to become a Certified Strength & Conditioning Specialist \*

*\*Professionals who train athletes to improve performance*



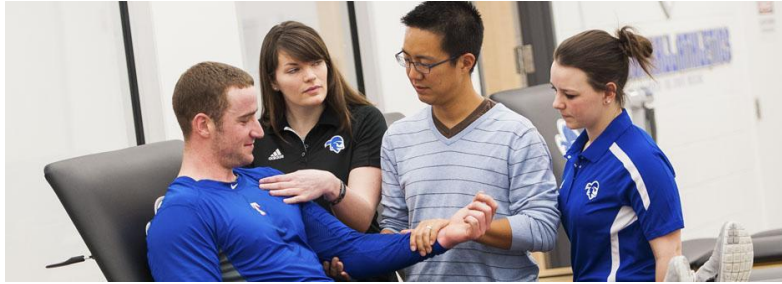


## Potential Administrative Careers

- Health Care Administrative Fellow
- Health Data Analyst/ Healthcare Consulting
- Patient Care Coordinator
- Solutions Analyst
- Health Operations Asst. Manager
- Health Project Manager
- Healthcare Research Assistant

# Exercise Science

## Exercise Science Concentration



| Course  | Credits |
|---|---------|
| BIOL 1122 / 1123 Anatomy & Physiology I + Lab                   | 3 + 1   |
| BIOL 1133 / 1134 Anatomy & Physiology II + Lab                  | 3 + 1   |
| CHEM 1123 / 1125 General Chemistry I + Lab                      | 3 + 1   |
| IPES 3565 Biomechanics  | 3       |
| IPES 3555 Care and Prevention of Athletic Injuries              | 3       |
| IPES 3557 Exercise Physiology                                   | 3       |
| IPES 4650 Exercise Prescription for Special Populations         | 3       |
| IPES 3567 Exercise Program Design                               | 3       |
| IPES 2550 Musculoskeletal Anatomy for Healthcare Professionals  | 3       |
| IPES Nutrition Across the Lifespan for Healthcare Professionals | 3       |
| IPES 4850 Internship for Exercise Science                       | 3       |

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\*subject to change

# Health Sciences Administration & Management Concentration



| Health Sciences Administration & Management |   | Credits |
|---|---|---------|
|   | Course  |         |
| IPCI 2530                                   | Foundations of Health Science Management for Health Professionals | 3       |
| IPCI 2532                                   | Introduction to Health Policy                                     | 3       |
| IPHA 2535                                   | Advanced Healthcare Systems                                       | 3       |
| IPHA 3535                                   | Healthcare Quality and Outcomes Management                        | 3       |
|   | Fundamentals  |         |
| IPHA 4035                                   | Healthcare Leadership and Team Dynamics                           | 3       |
| IPHA 4536                                   | Planning for Healthcare Delivery and Operations                   | 3       |
| BMGT 2503                                   | Organizational Behavior   | 3       |
| BMKT 2601                                   | Introduction to Marketing   | 3       |
| BACC 2103                                   | Financial Accounting  | 3       |
| BACC 2104                                   | Managerial Accounting   | 3       |
| ECON 1411                                   | Introduction to Economics   | 3       |
| IPCI 4575                                   | Capstone for Interprofessional Health Sciences                    | 3       |

\*subject to change

# Courses Approved for Project Acceleration within the BS IPHS Curriculum

- BIOL 1211 & 1212
- ENGL 1201
- MATH 1015
- BIOL 1222 & 1223
- ENGL 1202
- PSYC 1101
- BIOL 1122 & 1123
- CHEM 1123 & 1125
- SOC1 1101
- BIOL 1133 & 1134

Research mentors, clinical lab experience, and the high-fidelity simulation center is becoming part of the BS-IPHS experience.



## What is a Dual Degree Program in the Health Sciences?

Combines an Undergraduate Degree in the Arts or Sciences with a Health Science Graduate Degree

Student graduates with both a bachelor's degree and a masters or doctoral degree

# Existing SHMS Dual Degree Arrangements



- **Athletic Training**-undergraduate BA or BS in Biology with an MS in Athletic Training/  
BS IPHS with a concentration in Exercise Science and an MS in Athletic Training
- **Occupational Therapy**-undergraduate BA in SOBS with an MS in Occupational  
Therapy
- **Physical Therapy**-undergraduate BS in Biology with a DPT in Physical Therapy
- **Physician Assistant**-undergraduate BS in Biology with an MS in Physician Assistants
- **Speech-Language Pathology**-undergraduate BSE in Elementary/Special Education,  
BA or BS in Psychology with a MS in Speech-Language Pathology
- **3+2, 3+3 or 4+2 programs**

**Students do their undergraduate work on the main campus with all undergraduates and transition to our other campus to complete their graduate portion of the dual degree program**





# FAIRLEIGH DICKINSON UNIVERSITY

- Biology Honors
- Chemistry Honors
- Physics Honors
- Anatomy & Physiology I Honors
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics C
- AP Literature
- Accounting II Honors
- Structural Design & Fabrication
- Graphic Design III
- Creative Writing
- Journalism III Honors
- Calculus
- AP Calculus AB/ BC
- AP US Government & Politics
- AP European History
- AP US History II
- Contemporary World Issues (6 credits)
- History through Sports
- AP French & French IV Honors
- AP Spanish & Spanish IV Honors
- Teaching Young Children Honors





- ❖ Honors Physics
- ❖ AP Physics
- ❖ Accounting II Honors
- ❖ 3-D Studio Honors
- ❖ Engineering and Drafting II
- ❖ Engineering & Drafting II
- ❖ Advanced Computer Design
- ❖ Ceramics III
- ❖ AP Statistics
- ❖ Video Game Design
- ❖ Spanish IV Honors
- ❖ AP Spanish
- ❖ Intro to Cyber Security
- ❖ AP Computer Science A
- ❖ Advanced Dance
- ❖ French IV Honors
- ❖ AP French
- ❖ AP Music Theory
- ❖ Precalculus Honors



# Dual Enrollment at County College of Morris

Melissa Albright, VP of Marketing & Enrollment

Dr. Pam Marcenaro, Assistant VP of Enrollment

Marva Cole-Friday  
Associate Director of  
Dual Enrollment



# County College of Morris



Best Community College in NJ by Salary Potential

Best College for Criminal Justice in NJ by Niche

#1 Associate Degree in the region by College Factual

\*Communication & Media Studies \*Fine & Studio Arts  
\*Graphic Design  
\*Nursing

National Data Fest Winners  
Innovation Challenge  
Math League



# Why Dual Enrollment? Titans Express



- Earn credits in both high school and college.
- CCM classes in Roxbury High School taught by Roxbury teachers.
- College-level course material approved by CCM.
- Allows students to get college credits at half the cost.
- Helps reduce course loads and graduate early from college.



## Will students receive a grade for the course?

- Students will receive a grade for the Titans Express Dual Enrollment course, determined by their Roxbury High School teacher. Once completed, the grade will be sent to CCM's Office of Records and added to the student's official academic record.
- Courses taken through the Titans Express Dual Enrollment program will appear on a CCM college transcript like any other course. These credits can jump-start a student's college career and may transfer to other institutions under standard transfer guidelines.

# Is my student a CCM student?



- Students in the Titans Express Dual Enrollment program are classified as non-matriculated CCM students. They receive a CCM student ID and email address, which grants them access to the Titans Direct student portal for managing tuition payments and accessing their college transcripts.
- CCM will send Roxbury a secure link for the registration form. Once submitted, the student's enrollment will be processed and a confirmation will be sent to their personal email. They will also receive a username and password for the Titans Direct portal to pay tuition.

## Tuition Charges for Titans Express at Roxbury HS



Dual Enrollment classes taught at Roxbury HS are billed at a discounted rate of 50% of the In-County per credit rate of \$164 – \*Current year 24/25. This means the per credit rate will be \$82.00

Tuition for a 3-credit course is \$246

Tuition for a 2-credit course is \$164

Tuition for a 1-credit course is \$82



Interested?  
Contact us!

CCM

For questions about the Titans Direct Dual Enrollment program  
please contact:

Marva Cole-Friday  
Associate Director for Dual Enrollment Programs  
[mcole-friday@ccm.edu](mailto:mcole-friday@ccm.edu)

To learn more about CCM visit our website at:  
[www.ccm.edu](http://www.ccm.edu)

# Learn More



- [Episode 6 - Aviation at RHS](#)
- [Episode 17 - Academic Research at RHS](#)
- [Episode 22 - Expository Writing](#)
- [Episode 24- AP and Dual Enrollment](#)
- [Episode 39 - Sports Medicine Academy](#)
- [Episode 54 - Structural Design and Fabrication](#)
- [Episode 67 - Tomorrow's Teachers](#)

# Questions?



William Crispino ([wcrispino@roxbury.org](mailto:wcrispino@roxbury.org))- RHS Principal

Colleen Huguenin ([chuguenin@roxbury.org](mailto:chuguenin@roxbury.org)) - Director of Student Services

Effie Krause ([ekrause@roxbury.org](mailto:ekrause@roxbury.org)) Mathematics, Business, and Family Consumer Science Supervisor

Stuart Mason ([smason@roxbury.org](mailto:smason@roxbury.org)) - Director of Athletics and Health and Physical Education

Matthew Mawn ([mmawn@roxbury.org](mailto:mmawn@roxbury.org)) - RHS AP (Former Science and Visual Art Supervisor)

Eric Schmidt ([eschmidt@roxbury.org](mailto:eschmidt@roxbury.org)) - ELA and Performing Art Supervisor

Charles Seipp ([cseipp@roxbury.org](mailto:cseipp@roxbury.org)) - Assistant Superintendent for Curriculum and Instruction

Matt Trokan ([mtrokan@roxbury.org](mailto:mtrokan@roxbury.org)) - Social Studies and World Language Supervisor