

# DUAL ENROLLMENT

GROVE CITY AREA SCHOOL DISTRICT

Dual enrollment is academic programming that enables Grove City Area School District sophomores, juniors and seniors to take college courses that satisfy high school graduation and college credit requirements.

## RESEARCH ABOUT DUAL ENROLLMENT PROGRAMS

Dual enrollment programs were found to have positive effects on students in the following domains:

- **Degree Attainment (college)** | Dual-enrolled students are more likely to complete a college degree
- **College Access and Enrollment** | Dual-enrolled are students more likely to enroll in a postsecondary institution
- **Credit Accumulation** | Dual-enrolled are students more likely to return to college for their second year
- **Completing High School** | Dual-enrolled are students more likely to graduate from high school on time
- **Academic Achievement (High School)** | Dual-enrolled are students more likely to pass end of courses exams

*All of the above factors lead educators to conclude that dual-enrolled students are more likely to be successful college students.*



# DUAL ENROLLMENT FOR HIGH SCHOOL STUDENTS

## WHO IS ELIGIBLE TO TAKE DUAL ENROLLMENT COURSES?

At Harrisburg University, high school sophomores, juniors and seniors are eligible to apply for dual enrollment. We welcome dual-enrolled students from public, private, charter, home and cyber schools.

## WHAT IS COLLEGE IN THE HIGH SCHOOL?

The first step is Harrisburg University (HU) interviews and vets a teacher at Grove City Area School District (GCSD) as a Corporate (adjunct) Faculty with the University. The second step is conducting a curriculum review of the courses at GCSD to see if the content aligns with any courses at HU. Some adjustments to course material is required, however once completed, the courses at GCSD can count towards credit for courses at HU. Students at GCSD can apply for dual enrollment status while in the course they are enrolled in at the High School.

## WHERE ARE DUAL ENROLLMENT CLASSES HELD?

Harrisburg University offers several options for dual enrollment courses:

- Traditional classroom courses at Harrisburg University campus, located in downtown Harrisburg, Pa. during the academic year
- Online courses (limited number)
- Courses offered at select high schools during the academic year

## WHAT ARE THE ADVANTAGES OF DUAL ENROLLMENT?

By earning dual enrollment credit, you won't just be preparing for college, you'll be getting a head start on your academic and career goals.

Earning college credit in high school allows the opportunity to create a more flexible schedule as a college student. This will more time for other academic and extracurricular activities.

Dual enrollment allows families to save on future college costs by earning college credits at a discounted per-credit rate.

Dual enrollment courses allow you to experience college life and gain valuable insight of your interests when choosing a major for college.

**For example: A student in the AP Computer Science course at GCSD completes a dual enrollment application with HU. At the end of the school year, if the student has received a C+ or better, they will receive college credit for CISC 120 Fundamentals of Computing for a total of 4 credits.**

## WHO IS ELIGIBLE TO TAKE DUAL ENROLLMENT COURSES AT GCSD?

For the courses articulated with GCSD, any student enrolled in the courses outlined in this brochure are eligible to apply for dual enrollment credit.

## HOW MUCH DOES DUAL ENROLLMENT COST?

For the courses offered at GCSD, by GCSD instructors, the cost is \$100 per credit. For courses taught online, at Harrisburg University, or in any way instructed by HU faculty, the cost is \$200 per credit.

## WHERE ARE DUAL ENROLLMENT CLASSES HELD?

- The courses outlined in this brochure will take place at GCSD, unless otherwise outlined in the program requirement.
- Traditional classroom courses located in downtown Harrisburg, Pa. during the academic year
- Online courses (limited number)

## WHAT IS THE DEADLINE TO APPLY FOR THE DUAL ENROLLMENT CREDITS?

The deadline will be established by the HU Director of Secondary School Services and communicated to GCSD administrators and counselors, as well as, all students and parents.

## WHERE DO I APPLY?

All applications must be completed online by using the following link and clicking Apply Now.  
<https://dualenrollment.HarrisburgU.edu/>

You will receive notification once your application is received, and additional information regarding the courses you register for will follow soon thereafter. Any questions regarding registration can be directed to Caitlin Wilkinson, Dual Enrollment and Special Programs Coordinator, at [CWilkinson@HarrisburgU.edu](mailto:CWilkinson@HarrisburgU.edu)

*Parents may use funds from their established PA 529 College Savings Program accounts to pay for dual enrollment while their child is in high school.*



## HARRISBURG UNIVERSITY | JUST THE FACTS

- 4-year, private comprehensive university
- **100%** of HU graduates complete internships and applied research – Get real-world experience
- **#1** private university in the nation for awarding scholarships!
- Small classes mean you get to know your professors well
- State-of-the-art, high-tech campus – great prep for the real-world work environment
- Affordable tuition – we keep costs down
- **94%** of graduates surveyed said they were employed in their chosen career field or in graduate school within 6 months of graduation – an HU degree leads to career success
- Diverse student body – **60%** minority; **44%** female

\* Figures accurate as of 2020

## WHY ENROLL AT HU?

When you have the right education and experience, great opportunities open up for you. With a bachelor's degree from HU you'll be ready to become a:

- Cyber security expert
- Pharmaceutical researcher
- Forensic examiner
- Game designer
- Biotechnologist
- Geospatial technologist
- Business analyst
- Chemist
- Or any of a thousand high-tech, high-potential positions available to our graduates.

### IS HARRISBURG UNIVERSITY COURSE CREDIT TRANSFERABLE TO OTHER COLLEGES?

**Yes**, Harrisburg University is an accredited university, so its courses transfer to other institutions. Depending on the college and the course of study, a Harrisburg University course may transfer as a general education course, a major requirement or a free elective. If a student earns a C or higher, the course should transfer.

### DOES BEING A DUAL-ENROLLED STUDENT AT HARRISBURG UNIVERSITY GUARANTEE ME ADMISSION TO THE UNIVERSITY?

**Yes**, if you have successfully passed and received credit for a dual enrollment course from the university and with verification of your high school graduation you are admitted to Harrisburg University.

### Choose from these Hot Science and Technology Majors

#### HARRISBURG UNIVERSITY | HARRISBURG

##### B.S. ADVANCED MANUFACTURING

##### B.S. APPLIED MATHEMATICS

Data Analytics  
Natural Sciences

##### B.S. BIOTECHNOLOGY

Food Safety and Quality Assurance  
General Biotechnology  
Medical Biotechnology  
Nanobiotechnology  
Nanobiotechnology and Nanofabrication  
Pharmaceutical Design

##### B.S. COMPUTER AND INFORMATION SCIENCES

##### B.S. ENVIRONMENTAL SCIENCE AND SUSTAINABILITY

##### B.S. ESPORTS MANAGEMENT, PRODUCTION, AND PERFORMANCE

##### B.S. GEOSPATIAL TECHNOLOGY

##### B.S. INFORMATION SYSTEMS AND INFORMATION TECHNOLOGIES

##### B.S. INTEGRATIVE SCIENCES

Biology  
Biological Chemistry  
Chemistry  
Forensics

##### B.S. INTERACTIVE MEDIA

Advanced Media Production  
Purposeful Game Design  
User Experience Design

##### B.S. MANAGEMENT, ENTREPRENEURSHIP, AND BUSINESS ADMINISTRATION

Business Analytics  
Digital Health  
Digital Marketing  
Entrepreneurship  
Individualized

##### INTERESTED IN A MEDICAL CAREER?

Harrisburg University offers programs in Integrative Sciences and Biotechnology to meet the exact requirements of your chosen health professional school.

#### HARRISBURG UNIVERSITY | PHILADELPHIA

##### B.S. COMPUTER AND INFORMATION SCIENCES

##### B.S. ESPORTS MANAGEMENT, PRODUCTION, AND PERFORMANCE

##### B.S. INFORMATION SYSTEMS AND INFORMATION TECHNOLOGIES

##### B.S. INTERACTIVE MEDIA

Advanced Media Production  
Purposeful Game Design

##### B.S. MANAGEMENT, ENTREPRENEURSHIP, AND BUSINESS ADMINISTRATION

*Academic programs, admission and matriculation requirements, and student eligibilities are subject to change.*

# GCS D/HU

## PROGRAM OF STUDY

### BIOLOGY

#### BIOL 102 General Biology

Course at Harrisburg University  
3 Semester Hours  
Prerequisites: None  
Corequisites: BIOL 103

Instructor at Grove City Area School District: Richard Andrews  
Course at GCS D: AP Biology

This course introduces the student to the major themes of biology, including properties of living organisms, comparison of eucaryotes vs. procaryotes, patterns of inheritance, the central dogma, mitosis and meiosis, the diversity of life in both plants and animals, classification of organisms, evolution, metabolism, photosynthesis, cell structures, basic structure of the body, infectious disease, the Hardy-Weinberg principle, biodiversity, ecosystems, and the biosphere. A broad understanding of biology and living organisms in the biosphere is developed through hands-on, multimodal engaged learning opportunities in both the classroom and the companion laboratory component.

#### BIOL 103 General Biology Laboratory

Course at Harrisburg University  
1 Semester Hour  
Prerequisites: None  
Corequisites: BIOL 102

Instructor at Grove City Area School District: Richard Andrews  
Course at GCS D: AP Biology

Companion laboratory component that demonstrates the major themes of biology presented in BIOL 102.

### INTERACTIVE MEDIA

#### IMED 170 Visual Design Fundamentals

Course at Harrisburg University  
4 Semester Hours  
Prerequisites: None

Instructor at Grove City Area School District: Jared Henshaw  
Course at GCS D: Multimedia Design and Community Filming

This course introduces the basic concepts of design or print and time-based digital media. The principles of composition and color theory, and how these are affected by movement, duration and display, are covered. Vector and bitmap manipulation tools are explored in relation to graphic production across the design fields.

#### IMED 250 Video Production I

Course at Harrisburg University  
2 Semester Hours  
Prerequisites: COMM 225

Instructor at Grove City Area School District: Jared Henshaw  
Course at GCS D District: Advanced Video & Broadcasting

This course explores the fundamental theory and practice of creating digital media. The course also prepares the student for creative expression and technology application in all aspects of media for effective message communication, whether it is for a specific product, a game or entertainment site, instruction, or eCommerce. New and emerging digital media tools are used to create, store, transmit and sell products and services. The student employs these new skills to develop portfolio-ready pieces.

### ENVIRONMENTAL SCIENCE

#### ENVS 101 Intro to Environmental Science

Course at Harrisburg University  
4 Semester Hours  
Prerequisites: None

Instructor at Grove City Area School District: Will Logan  
Course at GCS D: AP Environmental Science

Environmental science is the study of natural ecosystems, human impacts on the environment, and sustainable management of the Earth's resources. Processes of the physical and biological environment are used as a basis for consideration of current environmental topics. Other areas covered include: energy consumption and global warming, water and air pollution, waste management, impacts of deforestation on biodiversity and other environmental changes occurring on a global scale.

### ENGLISH

#### ENGL 105 College Composition

Course at Harrisburg University  
3 Semester Hours  
Prerequisites: Placement by assessment

Instructor at Grove City Area School District: Vince Anastasi  
Course at GCS D: AP English Literature and Composition

This first-year composition course is an introduction to college-level writing strategies. By reading various writing styles and genres, the student will contemplate how purpose and audience guide the writing process. Writing assignments are to be completed according to a deadline with a goal of improving style, grammar, and diction.

# GCSD/HU PROGRAM OF STUDY



## PHYSICS

### PHYS 210 General Physics I

Course at Harrisburg University  
4 Semester Hours

Instructor at Grove City Area School District: Thomas Lilly  
Course at GCSD: AP Physic

Prerequisites: High School Physics and Algebra II

This course provides an introductory treatment of classical Newtonian physics and covers kinematics in one and two dimensions, vector forces, Newton's laws of motion, uniform circular motion, work, conservation of energy, momentum and angular momentum, rotational kinematics and dynamics, and simple harmonic motion. Emphasis is placed on the application of basic concepts through mathematical problem-solving. Applications of physics to problems in medicine are presented and medical technology is highlighted throughout the course. Applications of elementary and differential and integral calculus to physics are introduced. Laboratory experiments provide experience with various measurement technologies and reinforce the theoretical concepts developed.

## CHEMISTRY

### CHEM 151 General Chemistry I Lecture

Course at Harrisburg University  
3 Semester Hours

Instructor at Grove City Area School District: Richard Samsa  
Course at GCSD: AP Chemistry

Prerequisites: MATH 120 or MATH 220

Corequisites: CHEM 152

This course provides a general introduction to atoms and molecules, stoichiometry, states of matter, solutions, reactions, kinetics and equilibrium which serve as a prerequisite for advanced courses.

### CHEM 152 General Chemistry I Laboratory

Course at Harrisburg University  
1 Semester Hour

Instructor at Grove City Area School District: Richard Samsa  
Course at GCSD: AP Chemistry

Prerequisites: MATH 120 or MATH 220

Corequisites: CHEM 151

Companion laboratory component that illustrates the general introduction to atoms and molecules, stoichiometry, states of matter, solutions, reactions, kinetics and equilibrium which serve as a prerequisite for advanced courses.

### CHEM 161 General Chemistry II

Course at Harrisburg University  
3 Semester Hours

Instructor at Grove City Area School District: Richard Samsa  
Course at GCSD: AP Chemistry

Prerequisites: C or higher in CHEM 151-152 or permission of instructor

Corequisites: CHEM 162

A study of chemical principles including acid/base chemistry, bonding, thermodynamics and electrochemistry.

### CHEM 162 General Chemistry II Laboratory

Course at Harrisburg University  
1 Semester Hour

Instructor at Grove City Area School District: Richard Samsa  
Course at GCSD: AP Chemistry

Prerequisites: C or higher in CHEM 151-152 or permission of instructor

Corequisites: CHEM 161

Companion laboratory component that illustrates the study of chemical principles including acid/base chemistry, bonding, thermodynamics and electrochemistry.

## MATH

### MATH 120 College Algebra

Course at Harrisburg University  
3 Semester Hours

Instructor at Grove City Area School District: Brian Lego  
Course at GCSD: Algebra II

Prerequisites: MATH 081, by assessment, or C or better

This course is designed for the student with an elementary knowledge of algebra. Topics include properties of real numbers, problem-solving using equations and inequalities, algebraic functions, graphing, systems of equations and inequalities, polynomial functions and graphs, exponents and radicals, the binomial theorem, zeros of polynomials, inverse functions, and applications and graphs. Free on-line graphing and calculating utilities are used in lieu of a graphing calculator. This course meets a total of 4 hours per week to permit active learning activities each week driven by student interests or needs.

### MATH 220 Calculus I

Course at Harrisburg University  
3 Semester Hours

Instructor at Grove City Area School District: Brian Lego  
Course at GCSD: AP Calculus AB

Prerequisites: MATH 120 or MATH 280

This course introduces techniques to evaluate limits and covers continuity, special trigonometric limits, absolute value limits and differentiation of algebraic, trigonometric, and logarithmic functions. The course explores intermediate value theorem, mean value theorem, and extreme value theorem. Other topics for exploration are application and formal definition of derivative average rate of change versus instantaneous rate of change, velocity, and the introduction of the definite integral and its applications. A graphing calculator is required for this course.

### MATH 280 Introductory Statistics

Course at Harrisburg University  
3 Semester Hours

Instructor at Grove City Area School District: Brian Lego  
Course at GCSD: AP Statistics

Prerequisites: MATH 120 or MATH 220

This course covers elementary topics from the probability and statistics of both discrete and continuous random variables. Topics include independence and dependence, mean, variance and expectation, and distributions of random variables. Statistics is applied to hypothesis testing. This course provides the student with a broad, general knowledge and understanding of statistics. The emphasis of this course is on the utility and practical application of statistics rather than on the mathematical derivation of statistical principles.

**For more information contact:**

**Ryan Korn**

Director of Secondary School Services, Programs and Partnerships  
RKorn@HarrisburgU.edu | 717.901.1641

**John W. Friend MS. Ed. ABD**

Associate Vice President for UG Admissions & Secondary Programs  
JFriend@HarrisburgU.edu | 717.901.5119

**Aaron E. Spina**

Associate Director of Admissions  
ASpina@HarrisburgU.edu | 717.901.5100 Ext. 0128

**Records and Registration**

Dual Enrollment and Special Programs Coordinator  
<https://reghelp.HarrisburgU.edu> | 717.901.5136

**Apply at: <https://dualenrollment.HarrisburgU.edu/>**

The Harrisburg University of Science and Technology is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104. (267-284-5000) The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.



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