

*District 214 Career Programs,
Course Selection,
& Graduation Requirements*

Wheeling & Buffalo Grove High School

District 214 Career Pathways

Agricultural Education

Agriculture, Food and Natural Resources

- Environmental Science Systems
- Food Products and Processing Systems
- Plant and Animal Systems
- Power, Structural and Technical Systems

Business, Marketing and Computer Education

Business Management and Administration

- Business Management and Administration

Finance

- Finance

Government and Public Administration

- Foreign Service
- Governance, Public Management and Administration

Marketing

- Marketing

Family and Consumer Sciences

Education and Training

- Teaching/Training: Early Childhood Education
- Teaching/Training: Primary Education
- Teaching/Training: Secondary Education

Hospitality and Tourism

- Restaurants and Food/Beverage Services: Culinary Arts

Human Services

- Counseling and Mental Health Services
- Personal Care Services: Cosmetology
- Personal Care Services: Personal Training

Health Sciences Technology

Health Science

- Health Science

Technology and Engineering Education

Architecture and Construction

- Construction: Building Trades
- Design/Pre-Construction: Architecture

Arts, Audio/Video Technology and Communications

- Audio/Video Technology and Film
- Communications: Writer/Author/Editor
- Journalism and Broadcasting
- Performing Arts: Acting and Technical Theater
- Performing Arts: Band
- Performing Arts: Choir
- Performing Arts: Dance
- Performing Arts: Orchestra
- Printing Technology/Visual Arts: Graphic Arts
- Visual Arts: Art (2-D Painting and Drawing/ 3-D Jewelry and Sculpture)
- Visual Arts: Photography

Information Technology

- Network Systems/Information Support and Services
- Programming and Software Development

Law, Public Safety, Corrections and Security

- Criminal Justice
- Emergency and Fire Management Services
- Legal Services

Manufacturing


- Production: Fashion Construction
- Production: Manufacturing

Science, Technology, Engineering and Mathematics

- Engineering and Technology: Engineering
- Science and Mathematics: Science Research and Development
- Science and Mathematics: Social Science Research and Development
- Science and Mathematics: Mathematics

Transportation, Distribution and Logistics

- Facility and Mobile Equipment Maintenance: Automotive Service
- Facility and Mobile Equipment Maintenance: Aviation
- Facility and Mobile Equipment Maintenance: Heating, Ventilation and Air Conditioning (HVAC)



*Sample Pathway,
Courses and how to
get involved in
activities*

[Career Pathways Booklet](#)



Science, Engineering and Mathematics

Engineering and Technology

Engineering

Pathway Courses

Year 1 • PLTW Introduction to Engineering Design

Years 2 - 3 • PLTW Civil Engineering and Architecture
• PLTW Aeronautical Engineering
• PLTW Computer Integrated Manufacturing
• PLTW Digital Electronics

Year 4 • AP Physics
• PLTW Engineering Design and Development
• PLTW Principles of Engineering

Related Electives

- Advanced Machine Technology
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics
- AP Statistics
- Calculus (AP Calculus, AB, BC)
- College Speech Communication
- Computer Programming, Mobile App and Networking
- Drafting/CAD
- Robotics

Career Related Activities

- Athletics
- Computers Club
- District Career Days
- District Career Nights
- District Career Treks
- High Mileage Vehicle Club
- Math Team
- Robot Rumble
- Science Olympiad
- WildStang FIRST Robotics

Workplace Learning Experiences

- Apprenticeship
- Industry Mentorship
- Internship
- Microinternship
- WildStang FIRST Robotics

Certificates: Harper

- Alternative Electrical Energy
- AutoCAD Designer
- Electrical Maintenance
- Electronics
- Industrial Electronics Maintenance
- Lean Six Sigma Green Belt
- Mechatronics
- Project Management Specialist
- Radio Frequency ID (RFID) Electronics
- Revit Architectural Designer

College Majors (examples)

- Aerospace Engineer
- Agricultural Engineer
- Biomedical Engineer
- Chemical Engineer
- Civil Engineer
- Electrical Engineer
- Engineering Technician
- Industrial Engineer
- Mechanical Engineer
- Nuclear Engineer

Careers (examples)

- Aerospace Engineer
- Agricultural Engineer
- Biomedical Engineer
- CAD Designer
- Chemical Engineer
- Civil Engineer
- Draftsman
- Electrical Engineer
- Engineering Technician
- Industrial Engineer
- Mechanical Engineer
- Nuclear Engineer

Discover Your Career

Early College Credit

Dual Credit, AP Classes, Early College Center, Middle College

Special Programs

Aviation Academy, Business Middle College, Cosmetology, Educator Prep, Medical Academy, Health Careers Middle College, Design 214, PAC, Workplace Learning (internships)

Dual Credit

- Dual credit courses provide students with college-level experiences in both core and career areas, preparation for post-secondary success, and opportunities to earn early college credit, which reduces the cost and time for earning a post-secondary degree. These courses also help students discover and pursue their futures while in high school.
- Students receive College & High School credit.
- Dual Credit requires an application and grade of C or higher (fee)

COLLEGES AND UNIVERSITIES:

Harper College

Triton College

Moraine Valley

Eastern Illinois University

National Louis University

Lewis University

<https://www.discover214.org/dual-credit>

AP Classes

Taking AP coursework as part of a balanced high school schedule can benefit students. These classes provide students with college-level instruction, preparation for postsecondary success and opportunities to earn early college credit, reducing college costs and time needed to earn a degree.

AP exam scores are awarded on a scale of 1 to 5.

AP requires a test in May and a minimum score of 3 (fee for test)

Course Levels

GENERAL CLASS LEVELS:

Prep/Co-taught

ESL

General

COLLEGE CREDIT LEVELS:

AP and Dual Credit

AP requires a test in May and a minimum score of 3 (fee for test)*

Dual Credit requires an application and grade of C or higher (fee)*

**fee waiver*

Course Selection Process

In November-January every year, counselors meet with students individually, grades 9-11, to select courses for the following year.

Counselor and Student discussion:

- Review credits

- Review graduation requirements

- Discuss their 4 year course plan

- Update pathway and Academic Planner on Infinite Campus

- Discussed elective options and activities as related to pathways

Four Year Academic Plan on Infinite Campus

View Academic Planner in IC—please
review with your child

Grade: 09 6.0 / 5.50	Grade: 10 6.75 / 5.75	Grade: 11 6.5 / 5.50	Grade: 12 5.5 / 4.25
English Language Arts (4.0 / 4.00)			
1.00 / 1.00	1.00 / 1.00	1.00 / 1.00	1.00 / 1.00
02562 WRITTEN & ORAL COMM- 0.50	03841 WORLD LIT & COMP - 0.50 03842 WORLD LIT & COMP - 0.50	03481 AMER LIT & COMP - 0.50 03482 AMER LIT & COMP - 0.50	03730 SHORT STORY - 0.50 63890 COLLEGE SPEECH COMMUNICATION - 0.50
08051 ESL 2 - 0.50			
Mathematics (3.0 / 3.00)			
1.00 / 1.00	1.00 / 1.00	1.00 / 1.00	1.00 / 0.00
04740 ALGEBRA II - 0.50 04810 HONORS ALGEBRA II - 0.50	04940 HONORS PRECALC/ CALCULUS A - 0.50 04950 HONORS PRECALC/ CALCULUS A - 0.50	04861 AP CALCULUS AB - 0.50 04862 AP CALCULUS AB - 0.50	04961 AP CALCULUS BC - 0.50 04962 AP CALCULUS BC - 0.50
Science (2.0 / 2.00)			
1.00 / 1.00	1.00 / 1.00	1.00 / 0.00	2.00 / 0.00
05021 BIOLOGY - 0.50 05022 BIOLOGY - 0.50	05121 HONORS CHEMISTRY - 0.50 05122 HONORS CHEMISTRY - 0.50	05201 AP PHYSICS 1 - 0.50 05202 AP PHYSICS 1 - 0.50	05441 AP PHYSICS C - 0.50 05442 AP PHYSICS C - 0.50 05501 AP PHYSICS C (LAB) - 0.50 05502 AP PHYSICS C (LAB) - 0.50
Social Science (3.0 / 3.00)			
1.00 / 1.00	1.00 / 1.00	1.00 / 1.00	0.00 / 0.00
09311 HUMAN GEO - 0.50 09312 HUMAN GEO - 0.50	07581 WORLD HISTORY - 0.50 07582 WORLD HISTORY - 0.50	07641 US HISTORY - 0.50 07642 US HISTORY - 0.50	
Elective (9.5 / 5.75)			
1.00 / 0.00	0.00 / 1.00	0.00 / 2.00	0.00 / 2.75
01250 ART SURVEY - 0.50 08041 ESL 2 STRATEGIES - 0.50			
Health/Physical Ed (2.25 / 2.25)			
0.50 / 0.50	0.75 / 0.75	0.50 / 0.50	0.50 / 0.50
08510 FRESHMAN PHYSICAL EDUCATION 1 - 0.25 08520 FRESHMAN PHYSICAL EDUCATION 2 - 0.25	08691 HEALTH EDUCATION - 0.50 08802 LIFESTYLE FITNESS - 0.25	08530 PHYSICAL EDUCATION - 0.25 08672 Power Gymnastics - 0.25	08530 PHYSICAL EDUCATION - 0.25 08672 Power Gymnastics - 0.25
World Languages/CTE (1.0 / 1.00)			
0.50 / 1.00	2.00 / 0.00	2.00 / 0.00	1.00 / 0.00
06210 PERSONAL FINANCE - 0.50	06881 PLTW-INTRO ENG DSG - 0.50 06882 PLTW-INTRO ENG DSG - 0.50 07331 SPANISH 1 - 0.50 07332 SPANISH 1 - 0.50	06942 PLTW-AEROSPACE ENG - 0.50 07341 SPANISH 2 - 0.50 07342 SPANISH 2 - 0.50 66941 COLL PLTW AEROSPACE ENG - 0.50	66840 COLLEGE AVIATION PHYSICS - 0.50 66850 COLLEGE AVIATION FUNDAMENTALS - 0.50

Graduation Requirements (WHS has a 9th hour Study Hall)

9th Grade

1. English
2. Biology
3. Human Geo
4. Math
5. PE
6. Lunch
7. Elective*
8. Elective*

10th Grade

1. English
2. Chemistry
3. World History
4. Math
5. PE/Health
6. Lunch
7. Elective*
8. Elective*

11th Grade

1. English
2. Physics
3. US History
4. Math
5. PE
6. Lunch
7. Elective*
8. Elective*

12th grade

1. English
2. Elective*
3. Elective*
4. Elective*
5. PE
6. Lunch
7. Elective*
8. Elective*

*Additional Graduation Requirements that need to
be taken where *elective is indicated*

*Qualifying Course for Consumer Education

*Qualifying Course for Fine Art

*Qualifying Course for Civics (HUMAN GEO)

1 credit in any of the 3 areas of Career Education,
Technology Education or World Language (world
language recommendation for college).

Seal of Biliteracy

The Illinois State Board of Education's Seal of Biliteracy program will place an official seal on diplomas and confer official recognition on transcripts of those students who qualify. The Seal of Biliteracy is awarded to those whose proficiency level is equivalent to the Intermediate High scale set by the American Council on the Teaching of Foreign Languages.

To qualify for the Seal of Biliteracy, seniors must:

- Earn a minimum composite score of 21 on an official administration of the ACT, OR
- Reach the ACT college readiness benchmark of 18 for the English subject area test OR
- Earn a minimum score of 540 on the Evidenced Based Reading and Writing portion of an official administration of the SAT, OR
- Earn a minimum overall composite score of 4.8 on the ACCESS for ELLs exam, AND
- Have earned a 4 or a 5 on the AP language exam

First generation students (parents did not attend college in the United States)

A.V.I.D.

Middle average student who is interested in extensive college and career information

College trips and guest speakers

Elective period in schedule

Must remain eligible

Follow Avid procedures (binder, note taking, grades, behavior)

NJROTC

WHS students attend during the day
Other district students attend Wednesday evening (4:30 - 8:30)
Involves instruction about the Navy and physical training
\$8 for t-shirt

NOT A COMMITMENT TO THE MILITARY

Academic Resources

Buffalo Grove High School

Literacy Lab (Library before school and periods 1-8)
Bison Academy
Teachers
Guided Study Hall

Wheeling High School

Literacy Lab (Library periods 1-9)
Teachers
Freshmen Study Hall

Upcoming Events

Course Verifiers go home around Spring Break

Junior Financial Aid Night-Thursday, March 12

District 214 College Fair-Tuesday, March 31

State Testing PSAT and SAT- April 14

Honors Program Night-April 16

WHS College and Career Symposium - April 23



Questions?