



2024-2025

COURSE DESCRIPTION BOOK

School District of Washington
SDOW

**WASHINGTON HIGH SCHOOL
SCHOOL DISTRICT OF WASHINGTON**

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Dear Students and Parents:

This Course Description and Guide to Student Program Planning is prepared for students and parents to use in planning next school year's schedule. Counselors, teachers, and administrators are aware of the challenges in decision making when planning student schedules and are available to assist students and parents in the course selection process.

The courses described in this booklet exceed the number of courses that will be included in the master schedule of classes for next year. The courses described represent those that could be taught if enough students ask for them. Courses that are included in the master schedule of class offerings for next year will represent the interests expressed by students together with thoughtful judgment of the high school staff.

Please review the contents of this guide carefully. Students can get information and assistance, and should seek help from counselors when necessary; however, an important responsibility of deciding what will best help develop students' abilities and talents remains a joint decision of students and parents.

Best wishes in planning for the

future. Sincerely,

Dr. Eric Turner
Principal

Instructional Delivery Methods

Washington High School delivers instruction enabling students to achieve a high school diploma, preparing them for post-secondary education, the work force, and to make positive contributions to society.

Traditional Instructional Delivery: Courses are available to students during our regular 7-hour course day. Courses are described in the following pages. Students are encouraged to speak with their teachers, counselors, administrators, and parents when selecting courses. Additionally, other methods of instructional delivery are available to students who may want to receive college credit, prepare for AP exams, and/or need supplemental instruction in order to meet graduation requirements.

Dual Credit: East Central College offers courses at Washington High School for students wishing to obtain college credit while still enrolled in high school. Dual credit courses are taught by WHS instructors on the WHS campus during the normal 7-hour day. Courses available for dual credit are labeled as college credit in the course descriptions. Courses available include College Credit Public Speaking, College Credit Composition, College Credit Algebra, College Credit Pre-Calculus, and College Credit Calculus. Each course may have prerequisite requirements; please refer to course descriptions for more details. Additionally, dual credit courses cost a fee charged by East Central College. Typically, the fees for a three hour course average about \$190. Teachers will provide students with an exact cost once the school year begins.

MOCAP Courses: Because virtual instruction can be an effective education option for some students, there may be courses available either through a district-provided virtual option or through the Missouri Course Access Program (MOCAP). More information about virtual courses can be found on our website at www.washington.k12.mo.us

AP® Courses: AP® courses are considered advanced placement courses. There are no fees initially charged to take AP® courses; however, if students wish to receive college credit the student must pay \$98 (fee subject to change) to take the advanced placement exam. Additionally, students must receive an appropriate score on the exam to be granted college credit. The college the student enrolls in will be responsible for granting college credit. Currently WHS offers AP® Literature and Composition, AP® Language and Composition, AP® Studio Art, AP® Physics I, AP® Physics II, AP® Biology, AP® Chemistry, AP® Principles of Computer Science, AP® Government and Politics, AP® Statistics, AP® Calculus AB, AP® Calculus BC, AP® Computer Science A, AP® Seminar, AP® Research, AP® Spanish Language, AP® Human Geography, AP® Psychology, and AP® US History. Students enrolling in AP® courses should plan to take the AP® Exam.

Correspondence Courses: Students wishing to complete a course through independent study may do so through correspondence courses. Correspondence courses are completed either through the mail or online. There are additional fees charged for correspondence courses. Students should see their counselor for more information. Currently, WHS works mainly through the University of Missouri-Columbia for correspondence courses; however, the state offers a virtual school.

Online Courses: Several options exist to take courses online. Students will complete the coursework online using Edgenuity (our preferred online platform). See the guidance office for a complete list of available courses. Enrollment in any online course requires administrative approval.

This Catalog of Courses has been organized to help students get on overall view of courses offered at Washington High School. It is our hope that by doing this, students will have a better understanding of the classes and programs offered so they can plan and prepare themselves for their future.

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All programs at Washington High School are available without regard to race, color, sex, religion, or handicap. All records are maintained in accordance with policies pursuant to Section 438, The Educational Right and Privacy Act.

Graduation Requirements

Washington Senior High School

4 Language Arts

3 Social Studies

3 Math

3 Science

1 Practical Art

1 Fine Art

1 PE

½ Health

½ Personal Finance

7 Electives

24 Total Credits

Interscholastic Activity Eligibility

This includes students in the A+ Program, student activities, and athletics.

- Students must pass and be enrolled in 6 credit bearing classes from the previous semester (3 credits) in order to be eligible for interscholastic competition. Missouri State High School Activities Association deems this as “reasonable minimum progress” towards graduation.
- This includes sports, music, drama, speech, student council, A+, all activities.
- This also means that students must attend at least 6 hours of classes per semester.

A+ Schools Program & School-to-Career Initiatives

Washington High School has been selected by the Missouri Department of Elementary and Secondary Education as an A+ School and School-To-Career (STC) site. The A+ Schools grant provided the opportunity and funding for Washington School District to make basic changes designed to guide students in a rigorous program of academic and technical education that will prepare them for the workplace, post-secondary vocational/technical training, or college. The STC grant will continue with the A+ concepts for all students K-12. A partnership plan has been developed which will offer the students the opportunity to be involved in job shadowing, apprenticeships, and internships.

The education of all students is important, regardless of their plans following high school. Some Washington High School graduates will choose to attend a four-year college or university; others may go directly into the work force or the military; and still others seek additional training at a post-secondary technical school or community college. These programs are designed to ensure that no matter which option is chosen, all high school students will be provided selections of courses, career counseling, technology, and/or workplace skill development opportunities which are appropriate to their career goals.

The three major goals of the A+ Schools Program are:

- All students will graduate from high school.
- All students complete a selection of high school studies that is challenging and for which there are identified learning expectations.
- All students proceed from high school graduation to a college or post-secondary technical school or high wage job with workplace skill development opportunities.

The A+ Schools Program encourages all students to focus on a career early and set a goal, which includes training beyond high school. The A+ Schools Program asks all students to select a career path, plan coursework for all four years of high school, and progress toward a goal of additional training at the post-secondary level or a high wage job.

With the A+ School status, financial incentives will be offered to students who stay in school, maintain at least a 95 percent attendance and a 2.5 grade point average, score proficient on the Algebra I End of Course exam (Class of 2015 and beyond) or score a 17 on the Math portion of the ACT, exhibit good citizenship, and avoid the unlawful use of drugs.

If you or your parents have any questions concerning the A+ School Program or STC initiative, please feel free to contact the A+ Office. You can reach the office at 636.231.2200 and ask for Lea Hasenjaeger. You can also visit our website at https://whs.washington.k12.mo.us/academics/a_program

Courses Offered Grade 9

Required Course Work (choose 1 English, 1 Social Studies, and two PE)		
0130	English I	Page 17
0131	English II	Page 17
0131H	Honors English II (Pre AP®)	Page 17
0235	United States History	Page 30
0242	AP® Human Geography	Page 30
0821	9th Health*	Page 62
0822	9th PE* or 0810*/0811* Weight Training	Page 62
Choose one of the following Math Courses		
0335	Honors Algebra II (Pre AP®)	Page 37
0334	Honors Geometry (Pre AP®)	Page 37
0305	Geometry	Page 37
0303	Algebra I	Page 36
0301	Algebra I Concepts	Page 36
0327	Pre-Algebra	Page 36
Choose one of the following Science Courses		
0407H	Honors Biology I (Pre AP®)	Page 42
0407	Biology I	Page 42
0404	Applied Biology	Page 42

Fine Arts		
Art		
0700	Intro to Visual Design	Page 56
0716	Art Appreciation (1st semester)*	Page 56
0719	Art Appreciation (2nd semester)*	Page 56
0121	Drama I*	Page 20
0122	Drama II*	Page 20
Music		
0750	Mixed Chorus (1st semester)*	Page 59
0751	Mixed Chorus (2nd semester)*	Page 59
0764	Music Appreciation A*	Page 59
0765	Music Appreciation B*	Page 59
0757	Orchestra	Page 60
0758MA or 0758MB	Marching Band* (1st semester)	Page 60
0758W	Wind Ensemble* (2nd semester)	Page 60

9th graders interested in band must sign up for Marching Band - 1st semester (0758MA or 0758MB) and
Wind Ensemble – 2nd semester (0758W)

*Denote semester class

^Prerequisite is Computer Applications

*Students may take one or both semesters of Art Appreciation

Electives		
Language Arts		
0135	Intro to Mass Media*	Page 20
World Languages		
0150	Spanish I	Page 25
0151	Spanish II	Page 25
0151H	Honors Spanish II	Page 25
0155	German I	Page 26
0156	German II	Page 26
0159	French I	Page 27
0160	French II	Page 27

**9th graders choose 2 courses from
Practical Arts, Fine Arts, and/or
Electives.**

Practical Arts		
Naval Junior ROTC		
0093	Naval Sciences I	Page 69
0094	Naval Sciences II	Page 69
0096M	JROTC Marksmanship	Page 68
Industrial Arts		
0501	Modern Manufacturing Intro to Woods*	Page 46
0511	Modern Manufacturing Intro to Metals*	Page 46
Family & Consumer Science		
0551	Food and Nutrition*	Page 49
0563	Cultural Foods*	Page 49
0553	Child Development I*	Page 49
Business		
0652	Computer Applications*	Page 52
0671	Multimedia*^	Page 52
0676	Business Essentials*	Page 52
Career Center Courses		
0900	Ag. Science I	Page 70
Project Lead The Way		
09333	PLTW I Introduction to Engineering/Design	Page 72
09444	PLTW-Principles of Biomedical Sciences	Page 74
09551	PLTW I Computer Science Essentials	Page 75
09552	PLTW II Computer Science Principles (recommended for 10th-12th grade students)	Page 75

Courses Offered Grade 10

10th graders choose 3 courses from the Practical Arts, Fine Arts, and/or Electives:

Required Course Work		
Choose one of the following English courses. If you are in a higher Language Arts course than listed, see your instructor or counselor for advisement.		
0131	English II	Page 17
0131H	Honors English II (Pre AP®)	Page 17
0148	AP® Language & Composition	Page 18
0102	American Lit & Composition I*	Page 17
0103	American Lit & Composition II*	Page 17
0149S	AP® Seminar	Page 21
Choose one of the following Math courses. If you are in a higher Math course than listed, see your instructor or counselor for advisement.		
0301	Algebra I Concepts	Page 36
0305	Geometry	Page 37
0303	Algebra I	Page 36
0304	Algebra II	Page 37
0335	Honors Algebra II (Pre AP®)	Page 37
Choose one of the following Science Courses		
0405	Applied Chemistry	Page 42
0409	Chemistry I	Page 42
0409H	Honors Chemistry I (Pre AP®)	Page 43
0411	Physics (with instructor approval)	Page 43
Choose either 1 year-long course or 2 semester courses (denoted with *) from the following:		
0242	AP® Human Geography	Page 30
0240	AP® US Government & Politics	Page 33
0202	Ancient World Studies	Page 30
0203	Modern World Studies	Page 30
0201	World Geography*	Page 32
0206	Economics*	Page 30
0211	History of Missouri*	Page 31
0209	Psychology*	Page 31
0210	Sociology*	Page 31
0215	Cold War & Vietnam Conflict*	Page 31
0216	Current Events*	Page 32
0219	History of the American West*	Page 32
Personal Finance*		
0663	Personal Finance*	Page 52

Fine Arts (1 credit needed)		
Art		
0700	Intro to Visual Design	Page 56
0701	Drawing*^	Page 56
0702	Advanced Drawing*^	Page 56
0703	Fine Crafts*^	Page 56
0704	Painting I*^	Page 56
0705	Ceramics*^	Page 57
0706	Advanced Ceramics*^	Page 57
0707	Sculpting*^	Page 57
0710	Photography I*	Page 57
0711	Photography II*	Page 57
0716	Art Appreciation (1 st semester)*	Page 56
0719	Art Appreciation (2 nd semester)**	Page 56
0121	Drama I*	Page 20
0122	Drama II*	Page 20
0123	Acting* (instructor permission)	Page 20
Music		
0750	Mixed Chorus (1 st semester)*	Page 59
0751	Mixed Chorus (2 nd semester)*	Page 59
0764	Music Appreciation (A)*	Page 59
0765	Music Appreciation (B)*	Page 59
0754	Meistersingers (must audition)	Page 60
0757	Orchestra	Page 60
0758MA or 0758MB	Marching Band* (1 st semester)	Page 60
0758C	Concert Band* (2 nd semester)	Page 60
0758W	Wind Ensemble*	Page 60
0758J	Jazz Ensemble	Page 59

Special Education courses begin on page 65
Students should consult their Special Services Case Manager for courses.

*Denotes semester class

^Prerequisite is Intro to Visual Design or Art Appreciation

Courses Offered Grade 10 Continued

Practical Arts (1 credit needed)		
Industrial Arts		
0501	Modern Manufacturing Intro to Woods*	Page 46
0511	Modern Manufacturing Intro to Metals*	Page 46
0505	Modern Manufacturing Woodworking	Page 46
0507	Modern Manufacturing Metalworking	Page 46
Family & Consumer Science		
0553	Child Development I*	Page 49
0562	Child Development II*	Page 49
0551	Food & Nutrition*	Page 49
0563	Cultural Foods*	Page 49
0554	Housing Decisions & Interior Design*	Page 49
Business		
0652	Computer Applications*	Page 52
0671	Multimedia**^	Page 52
0655	Accounting I	Page 53
0936	Marketing I	Page 54
0676	Business Essentials*	Page 52
Career Center Courses		
0900	Ag Science I	Page 70
0901	Ag Science II	Page 70
Project Lead The Way		
09333	PLTW I Introduction to Engineering/Design	Page 72
09334	PLTW II-Principles of Engineering	Page 72
09444	PLTW I – Principles of Biomedical Science	Page 74
09445	PLTW II - Human Body Systems	Page 74
09551	PLTW I Computer Science Essentials (CSE)	Page 75
09552	PLTW II Computer Science Principles (CSP)	Page 75
Naval Junior ROTC		
0093	Naval Sciences I	Page 69
0094	Naval Sciences II	Page 69
0095	Naval Sciences III	Page 69
0096M	JROTC Marksmanship	Page 68

Electives		
Language Arts		
0118	Newspaper & Magazine Journalism “The Advocate” (application)	Page 19
0119	Photojournalism: Yearbook (application)	Page 20
0120	TV Production (application)	Page 19
0135	Intro to Mass Media*	Page 20
World Languages		
0150	Spanish I	Page 25
0151	Spanish II	Page 25
0151H	Honors Spanish II	Page 25
0152	Spanish III	Page 25
0152H	Honors Spanish III	Page 25
0155	German I	Page 26
0156	German II	Page 26
0157	German III	Page 26
0159	French I	Page 27
0160	French II	Page 27
0161	French III	Page 27
Science		
0406	Anatomy & Physiology (w/ teacher approval)	Page 42
P.E.		
0813A	Aerobics/Body Sculpting* (1 st Semester)	Page 62
0813B	Aerobics/Body Sculpting* (2 nd Semester)	Page 62
0808	Team Sports (1st Semester)*	Page 62
0809	Team Sports (2nd Semester)*	Page 62
0810	Weight Training (1st Semester)*	Page 62
0811	Weight Training (2nd Semester)*	Page 62
0812A	Advanced Weight Training (1st Semester)*	Page 63
0812B	Advanced Weight Training (2nd Semester)*	Page 63
0825	Sports Officiating*	Page 63

*Denotes semester class

^Prerequisite is Computer Applications

Courses Offered Grade 11

Required Course Work		
Choose one year of Courses		
0148	AP® Language & Composition	Page 18
0114	AP® Literature & Composition	Page 18
0149S	AP® Seminar	Page 21
0149R	AP® Research	Page 21
0102	American Lit & Composition I*	Page 17
0103	American Lit & Composition II*	Page 17
01151	CC Composition I*	Page 19
01152	CC Composition II*	Page 19
0107	Creative Writing*	Page 17
0146B	Technical and Career Writing*	Page 18
0111	British Literature*	Page 18
0112	World Literature*	Page 18
0128	Mythology*	Page 21
0140	Novels*	Page 19
0147	Speech and Debate*	Page 19
0113	CC Public Speaking*	Page 18
0124	Film Studies*	Page 21
Choose one of the following Math Courses		
0313	Geometry Concepts	Page 36
0316	Algebra II Concepts	Page 36
0304	Algebra II	Page 37
0324	AP® Statistics	Page 38
0307AB	AP® Calculus AB	Page 38
0325	Pre-Calculus	Page 38
0306	Trigonometry	Page 38
0319	Math Analysis & Statistics	Page 39
0328	College Prep Algebra	Page 37
Choose one of the following Science Courses		
0426	Applied Physics	Page 43
0411	Physics I	Page 43
0419	AP® Physics I	Page 43
0422	AP® Biology	Page 44
0406	Anatomy and Physiology	Page 42
0425	AP® Chemistry	Page 44
0410	Chemistry II	Page 43
*Denotes semester class		
^Prerequisite is Intro to Visual Design or Art		

Special Education courses begin on page 65.
Students should consult their Case Manager for courses.

Students must take **0240 AP Government** (all year) or **0200 Government*** (page 33) and one other semester class listed below

Choose one of the following Social Studies Courses		
0201	World Geography*	Page 32
0206	Economics*	Page 30
0242	AP® Human Geography	Page 30
0211	History of Missouri*	Page 31
0209	Psychology*	Page 31
0210	Sociology*	Page 31
0215	Cold War & Vietnam Conflict*	Page 31
0202	Ancient World Studies	Page 30
0203	Modern World Studies	Page 30
0216	Current Events*	Page 32
0219	History of the American West*	Page 32
0243	AP® Psychology*	Page 32
0241	AP® US History	Page 32
Personal Finance*		
0663	Personal Finance*	Page 52
Fine Arts (1 credit needed)		
Art		
0700	Intro to Visual Design	Page 56
0701	Drawing*^	Page 56
0702	Advanced Drawing *^	Page 56
0703	Fine Crafts*^	Page 56
0704	Painting I*^	Page 56
0705	Ceramics*^	Page 57
0706	Advanced Ceramics*^	Page 57
0707	Sculpting*^	Page 57
0710	Photography I*	Page 57
0711	Photography II*	Page 57
0716	Art Appreciation (1st semester)*	Page 56
0719	Art Appreciation (2nd semester)*	Page 56
0713	AP® Studio Art (w/rec. of instructor)	Page 57
0121	Drama I*	Page 20
0122	Drama II*	Page 20
0123	Acting*	Page 20

Courses Offered Grade 11 Continued

Fine Arts (1 credit needed)		
Music		
0750	Mixed Chorus (1st semester)*	Page 59
0751	Mixed Chorus (2nd semester)*	Page 59
0764	Music Appreciation (A)*	Page 59
0765	Music Appreciation (B)*	Page 59
0754	Meistersingers (must audition)	Page 60
0763	Concert Choir (must audition)	Page 60
0756	Music Theory	Page 59
0757	Orchestra	Page 60
0758MA or 0758MB	Marching Band* (1 st semester)	Page 60
0758C	Concert Band (2 nd semester)	Page 60
0758W	Wind Ensemble	Page 60
0758J	Jazz Ensemble	Page 59

Practical Arts (1 credit needed)		
Industrial Arts		
0505	Modern Manufacturing Woodworking	Page 46
0506	Modern Manufacturing Advanced Woodworking	Page 46
0507	Modern Manufacturing Metalworking	Page 46
0508	Modern Manufacturing Advanced Metalworking	Page 46
Family & Consumer Science		
0551	Food and Nutrition*	Page 49
0563	Cultural Foods*	Page 49
0553	Child Development I *	Page 49
0562	Child Development II*	Page 49
0554	Housing Decisions and Interior Design*	Page 49
0565	Culinary Arts I (3 hour block)	Page 50
Naval Junior ROTC		
0093	Naval Sciences I	Page 69
0094	Naval Sciences II	Page 69
0095	Naval Sciences III	Page 69
0096M	JROTC Marksmanship	Page 68

Practical Arts (1 credit needed)		
Business		
0652	Computer Applications*	Page 52
0655	Accounting I	Page 53
0671	Multimedia*^	Page 52
0936	Marketing I	Page 54
0937	Marketing II	Page 54
Career Center Courses		
0900	Ag. Science I	Page 70
0901	Ag. Science II	Page 70
0917	Ag. Mechanics	Page 71
0916	Animal Science	Page 71
0905	Horticulture	Page 70
0920	Auto Technology I (3 hrs)	Page 77
0922	Building Construction I (3 hrs)	Page 77
0924	Welding Technology I (3 hrs)	Page 77
0926	Collision Repair I (3 hrs)	Page 77
0928 I and II	Machine Tool Tech I (3 hrs)	Page 77
0930	Graphic Communication I (3 hrs)	Page 77
0974	Information Technology I (3 hrs)	Page 77
0933	Health Occupations (3 hrs)	Page 76
0565	Culinary Arts (3 hrs)	Page 50/77
0650C3	CAPS: Global Business and Entrepreneurship (3 hrs)	Page 54/77
09181	Teaching Careers (K-12) (year 1)	Page 78

*Denotes semester class

^Prerequisite is Intro to Visual Design or Art Appreciation

Courses Offered Grade 11 Continued

Practical Arts (continued)		
Project Lead The Way		
09333	PLTW I Introduction to Engineering/Design	Pg. 72
09334	PLTW II Principles of Engineering	Pg. 72
09335	PLTW IIIa (Fall) - Computer Integrated Manufacturing (1.5 hrs)	Pg. 72
09336	PLTW IIIb (Spring) – Civil Engineering Architecture (1.5 hours)	Pg. 73
09337	PLTW IV- Engineering Design & Development (3.0 hrs)	Pg. 73
09444	PLTW I - Principles of Biomedical Science	Pg. 74
09445	PLTW II- Human Body Systems	Pg. 74
094483	Health Science Academy (3 hours) PLTW III/IV BioMed	Pg. 74
09551	PLTW I Computer Science Essentials (CSE)	Pg. 75
09552	PLTW II Computer Science Principles (CSP)	Pg. 75
09553	PLTW III Computer Science A (AP®)	Pg. 75
09554	PLTW IV Computer Science Cybersecurity	Pg. 75
Electives		
Other Electives		
0098	ACT/College Prep* (1st semester)	Pg 20
0099	ACT/College Prep* (2nd semester)	Pg 21
0714	Leadership Class (application)	Pg 67
0994	A+ Tutoring* (1st semester)	Pg 67
0995	A+ Tutoring* (2nd semester)	Pg 67
Language Arts		
0118	Newspaper & Magazine Journalism “ <i>The Advocate</i> ” (application)	Pg 19
0119	Photojournalism: Yearbook (application)	Pg 20
0120	TV Production (application)	Pg 19
0135	Intro to Mass Media*	Pg 20

Electives		
World Languages		
0150	Spanish I	Page 25
0151	Spanish II	Page 25
0151H	Honors Spanish II	Page 25
0152	Spanish III	Page 25
0152H	Honors Spanish III	Page 25
0153	Spanish IV	Page 25
0155	German I	Page 26
0156	German II	Page 26
0157	German III	Page 26
0159	French I	Page 27
0160	French II	Page 27
0161	French III	Page 27
Physical Education		
0808	Team Sports (1st semester)*	Page 62
0809	Team Sports (2nd semester)*	Page 62
0810	Weight Training (1st semester)*	Page 62
0811	Weight Training (2nd semester)*	Page 62
0813A	Aerobics/Body Sculpting* (1 st)	Page 62
0813B	Aerobics/Body Sculpting* (2 nd)	Page 62
0823	Lifetime Fitness (1st semester)*	Page 62
0824	Lifetime Fitness (2nd semester)*	Page 62
0812A	Advanced Weight Training (1st Semester)*	Page 63
0812B	Advanced Weight Training (2nd Semester)*	Page 63
0825	Sports Officiating* (2 nd semester)	Page 63

*Denotes semester

Courses Offered Grade 12

Required Course Work		
Choose a year-long AP English course or two semester courses		
01151	College Credit Composition I*	Page 19
01152	College Credit Composition II*	Page 19
0146B	Technical and Career Writing*	Page 18
0107	Creative Writing*	Page 17
0111	British Literature*	Page 18
0112	World Literature*	Page 18
0128	Mythology*	Page 21
0140	Novels*	Page 19
0147	Speech and Debate*	Page 19
0113	CC Public Speaking*	Page 18
0114	AP® Literature & Composition	Page 18
0148	AP® Language & Composition	Page 18
0149S	AP® Seminar	Page 21
0149R	AP® Research	Page 21
0102	American Lit & Composition I*	Page 17
0103	American Lit & Composition II*	Page 17
0124	Film Studies*	Page 21

Electives		
Language Arts		
0118	Newspaper & Mag. Journalism “The Advocate” (application)	Page 19
0119	Photojournalism: Yearbook (application)	Page 20
0120	TV Production (application)	Page 19
0135	Intro to Mass Media*	Page 20
World Languages		
0150	Spanish I	Page 25
0151	Spanish II	Page 25
0151H	Honors Spanish II	Page 25
0152	Spanish III	Page 25
0152H	Honors Spanish III	Page 25
0153	Spanish IV	Page 25
0154	AP® Spanish Language & Culture	Page 26
0155	German I	Page 26
0156	German II	Page 26
0157	German III	Page 26
0158	German IV	Page 26

Electives		
World Languages (Continued)		
0159	French I	Page 27
0160	French II	Page 27
0161	French III	Page 27
0162	French IV	Page 27
Social Studies		
0206	Economics*	Page 30
0209	Psychology*	Page 31
0210	Sociology*	Page 31
0211	History of Missouri*	Page 31
0215	Cold War & Vietnam Conflict*	Page 31
0216	Current Events*	Page 32
0201	World Geography	Page 32
0202	Ancient World Studies	Page 30
0203	Modern World Studies	Page 30
0242	AP® Human Geography	Page 30
0219	History of the American West*	Page 32
0243	AP® Psychology*	Page 32
0241	AP® US History	Page 32
0240	AP® US Government & Politics	Page 32
Mathematics		
0304	Algebra II	Page 37
0316	Algebra II Concepts	Page 36
0340	Algebra III Concepts	Page 36
0320	CC College Algebra	Page 38
0328	College Prep Algebra	Page 37
0325	Pre-Calculus	Page 38
0324	AP® Statistics	Page 38
0307AB	AP® Calculus AB	Page 38
0307BC	AP® Calculus BC	Page 38
0306	Trigonometry	Page 38
0319	Math Analysis & Statistics	Page 39

*Denotes semester

Courses Offered Grade 12 Continued

Electives		
Science		
0406	Anatomy and Physiology	Page 42
0422	AP® Biology	Page 44
0410	Chemistry II	Page 43
0425	AP® Chemistry	Page 44
0411	Physics I	Page 43
0419	AP® Physics I	Page 43
0427	AP® Physics II	Page 44
Physical Education		
0808	Team Sports (1st semester)*	Page 62
0809	Team Sports (2nd semester)*	Page 62
0810	Weight Training (1st semester)*	Page 62
0811	Weight Training (2nd semester)*	Page 62
0813A	Aerobics/Body Sculpting* (1st Semester)	Page 62
0813B	Aerobics/Body Sculpting* (2nd Semester)	Page 62
0823	Lifetime Fitness (1st semester)*	Page 62
0824	Lifetime Fitness (2nd semester)*	Page 62
0812A	Advanced Weight Training (1st Semester)*	Page 63
0812B	Advanced Weight Training (2nd Semester)*	Page 63
0825	Sports Officiating* (2nd semester)	Page 63
0098	ACT/College Prep* (1st semester)	Page 20
0099	ACT/College Prep* (2nd semester)	Page 21
0714	Leadership Class	Page 67
A+ Options		
0994	A+ Tutoring* (1st semester)	Page 67
0995	A+ Tutoring* (2nd semester)	Page 67
Personal Finance		
0663	Personal Finance* (Required for graduation)	Page 52

Special Education courses begin on page 65. Students should consult their Case Manager for courses.

^Prerequisite is Intro to Visual Design or Art Appreciation

Fine Arts (1 credit needed)		
Art		
0700	Intro to Visual Design	Page 56
0701	Drawing*^	Page 56
0702	Advanced Drawing*^	Page 56
0703	Fine Crafts*^	Page 56
0704	Painting I*^	Page 56
0705	Ceramics*^	Page 57
0706	Advanced Ceramics*^	Page 57
0707	Sculpting*^	Page 57
0710	Photography I*	Page 57
0711	Photography II*	Page 57
0716	Art Appreciation (1st semester)*	Page 56
0719	Art Appreciation (2nd semester)**	Page 56
0713	AP® Studio Art (w/ recommendation of studio)	Page 57
0121	Drama I*	Page 20
0122	Drama II*	Page 20
0123	Acting*	Page 20
Music		
0756	Music Theory	Page 59
0757	Orchestra	Page 60
0758MA or 0758MB	Marching Band* (1st semester)	Page 60
0758C	Concert Band*	Page 60
0758J	Jazz Ensemble	Page 59
0758W	Wind Ensemble	Page 60
0750	Mixed Chorus* (1st semester)	Page 59
0751	Mixed Chorus* (2nd semester)	Page 59
0764	Music Appreciation (A)*	Page 59
0765	Music Appreciation (B)*	Page 59
0754	Meistersingers (must audition)	Page 60
0763	Concert Choir (must audition)	Page 60
Practical Arts (1 credit needed)		
Junior Naval ROTC		
0093	Naval Sciences I	Page 69
0094	Naval Sciences II	Page 69
0095	Naval Sciences II	Page 69
0096	Naval Sciences IV	Page 69
0096M	JROTC Marksmanship	Page 68

*Denotes semester

Courses Offered Grade 12 Continued

Practical Arts (1 credit needed)		
Industrial Arts		
0505	Modern Manufacturing Woodworking	Page 46
0506	Modern Manufacturing Advanced Woodworking	Page 46
0507	Modern Manufacturing Metalworking	Page 46
0508	Modern Manufacturing Advanced Metalworking	Page 46
Family & Consumer Science		
0551	Food and Nutrition*	Page 49
0563	Cultural Foods*	Page 49
0553	Child Development I *	Page 49
0562	Child Development II*	Page 49
0554	Housing Decisions & Interior Design*	Page 49
0565	Culinary Arts I (3 hour block)	Page 50
0566	Culinary Arts II (3 hour block)	Page 50
Business		
0652	Computer Applications*	Page 52
0655	Accounting I	Page 53
0656	Accounting II	Page 53
0671	Multimedia*^	Page 52
0936	Marketing I	Page 54
0937	Marketing II	Page 54
0650C3M	CAPS: Global Business and Entrepreneurship (year 1)	Page 54/77
0651C3M	CAPS: Global Business and Entrepreneurship (year 2)	Page 54/77
Project Lead The Way		
09551	PLTW I Computer Science Essentials (CSE)	Page 75
09552	PLTW II Computer Science Principles (CSP)	Page 75
09553	PLTW III Computer Science A (AP®)	Page 75
09554	PLTW IV Computer Science Cybersecurity	Page 75

^Pre-requisite is Computer Applications

Practical Arts (continued)		
Project Lead The Way (continued)		
09333	PLTW I Introduction to Engineering/Design	Page 72
09334	PLTW II - Principles of Engineering	Page 72
09335	PLTW IIIa (Fall) - Computer Integrated Manufacturing (1.5 hrs)	Page 75
09336	PLTW IIIb (Spring) – Civil Engineering Architecture (1.5 hrs)	Page 73
09337	PLTW IV - Engineering Design & Development (3.0 hrs)	Page 73
09444	PLTW I - Principles of Biomedical Science	Page 74
09445	PLTW II- Human Body Systems	Page 74
094483	Health Science Academy (3 hours) PLTW III/IV BioMed	Page 74
Career Center Courses		
0902	Ag. Science II	Page 70
0917	Ag. Mechanics	Page 71
0916	Animal Science	Page 71
0905	Horticulture	Page 70
0566	Culinary Arts II	Page 50/77
09181	Teaching Careers (K-12)(year1)	Page 78
09182	Teaching Careers (K-12)(year2)	Page 78
0921	Auto Technology II	Page 77
0923	Building Construction II	Page 77
0925	Welding Technology II	Page 77
0927	Collision Repair II	Page 77
0929-III and IV	Machine Tool Technology II*	Page 77
0931	Graphic Communications II	Page 77
0933	CAPS: Health Occupations	Page 76
0975	Information Technology II	Page 77
All Level I Career Center Classes may be taken by Grade 12 on a space available basis only:		
0920	Auto Technology I	Page 77
0922	Building Construction I	Page 77
0924	Welding Technology I	Page 77
0926	Collision Repair I	Page 77
0928-I and II	Machine Tool Technology	Page 77
0930	Graphic Communications I	Page 77
0974	Information Technology I	Page 77
0565	Culinary Arts I	Page 50/77

*Denotes semester



Language Arts

	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement								Application/ Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective			
English I		■	◆								•			•				*
English II		■	◆	◆							•			•				*
Honors English II (Pre AP®)		■	◆	◆							•			•		*		
American Lit & Composition I	■				◆	◆					•							
American Lit & Composition II	■				◆	◆					•							
English for Biomedical Science		■			◆	◆					•							
AP® Language & Composition		■			◆	◆	✓				•					*	*	
AP® Literature & Composition		■		◆	◆	◆	✓				•					*	*	
AP® Seminar		■		◆	◆	◆					•			•		*	*	
AP® Research		■			◆	◆					•			•		*	*	
Creative Writing	■				◆	◆					•							
Technical & Career Writing	■				◆	◆					•							
British Literature	■				◆	◆					•							
World Literature	■				◆	◆					•							
Novels	■				◆	◆					•							
Speech & Debate	■				◆	◆	✓				•							
College Credit Public Speaking*	■				◆	◆	✓				•						*	
Mythology	■				◆	◆					•							
College Credit Composition I	■			◆	◆	◆	✓				•					*	*	
College Credit Composition II	■			◆	◆	◆	✓				•					*	*	
Newspaper & Magazine Journalism		■		◆	◆	◆									•	*		
Photojournalism: Yearbook		■		◆	◆	◆									•	*		
Advanced Media Writing (application)		■				◆	✓				•				•	*		
Intro to Broadcast News Writing & Production	■		◆	◆	◆										•			
TV Production		■		◆	◆	◆									•	*		
Drama I (Fine Art credit earned)	■		◆	◆	◆	◆							•					
Drama II (Fine Art credit earned)	■		◆	◆	◆	◆							•					
Acting (Fine Art credit earned)	■				◆	◆	✓						•					
ACT Prep Course 1st Semester	■				◆	◆									•			
ACT Prep Course 2nd Semester	■				◆	◆									•			
Film Studies	■				◆	◆	✓				•							

*Denotes semester



***Denotes semester**

English Language Arts Department

Course Descriptions

0130 English I

9 1.0

Required: Freshmen must enroll in English I.

This entry-level, year-long course is designed to develop and improve reading, writing, and oral expression skills. Students will study the basics of the writing process, literary analysis, and composition structure. They will review the basics of grammar, usage, spelling, and vocabulary as well as develop critical thinking skills through research. Writing groups and public speaking activities will also be practiced. In addition, students are encouraged to read over the summer as well.

0102 American Literature & Composition I*

11, 12 0.5

This American literature based course focuses on authors and topics from 1600s through the Civil War. Students will complete activities designed to enhance reading, writing, vocabulary, research, speaking, and listening skills through reading of fiction, nonfiction, drama, and poetry. The goals of the course strengthen students' communication skills, reading comprehension, vocabulary, and writing skills. Students will produce papers, read literature, and participate in cooperative learning that includes rigorous reading of historical texts. In addition, students are encouraged to read over the summer as well.

0131 English II

9, 10 1.0

Required: Must enroll in Honors English II (Pre AP®) or English II. Students should check with English I teachers for a recommendation.

This year-long course continues the development of the writing process and close reading skills. Grammar, usage, mechanics, and sentence writing skills will be integrated as students write and publish research, narrative, persuasive, and creative compositions. In addition, students are encouraged to read over the summer as well.

0103 American Literature & Composition II*

11, 12 0.5

This American literature based course focuses on authors and topics from the post-Civil War to modern day. Students will complete activities designed to enhance reading, writing, vocabulary, research, speaking, and listening skills through reading of fiction, nonfiction, drama, and poetry. The goals of the course strengthen students' communication skills, reading comprehension, vocabulary, and writing skills. Students will produce papers, read literature, and participate in cooperative learning that includes rigorous reading of historical texts. In addition, students are encouraged to read over the summer as well.

0131H Honors English II (Pre AP®)

9, 10 1.0

Required: Must enroll in Honors English II (Pre AP®) or English II. Students should check with English I teachers for a recommendation.

This course is designed for students who demonstrate a strong interest and commitment to the study of English. While designed to follow the English II curriculum, it provides enrichment for students who are avid readers and advanced writers. This course consists of a fast-paced, rigorous study of literature, and the writing assignments will be more complex and intensive than those in the regular course. In addition, students are encouraged to read over the summer as well.

0107 Creative Writing*

11, 12 0.5

Students will write in three of the main genres of creative writing: nonfiction, fiction, and poetry. The goal of this course is to have students better develop themselves as writers, as well as prepare for college level coursework. This course will incorporate a workshop format, which means that much of the learning will be independent. Students will work individually and in small groups to go through the writing process: brainstorming through editing. Additionally, students will be asked to keep a writer's journal and study the works of other published authors. In addition, students are encouraged to read over the summer as well.

0114**AP® Literature and Composition****11, 12****1.0**

Required: Sophomore and Juniors must have a grade of 85% or above in prior English courses, strong work ethic, teacher recommendation, and score Proficient or Advanced on the EOC English II exam.

This course is a year-long survey of novels, short stories, poetry, and drama from a wide variety of cultures and time periods. Students taking this course must assume considerable responsibility for extensive reading and skillful reflection on that reading through discussion, critical writing, multiple-choice practice, and group presentations. Readings will incorporate major literary movements and close readings of specific works. The writing will stress both planned essays and impromptu responses to works studied. Those wishing to get a head start may obtain the reading list from the instructor.

0148**AP® Language and Composition****10, 11, 12****1.0**

Required: Juniors must have a grade of 85% or above in prior English courses, strong work ethic, teacher recommendation, and Proficient or Advanced on the EOC exam.

Students will combine advanced composition skills with the study of rhetoric and a survey of the canons of American literature. This yearlong course will be intensive and fast-paced in order to prepare students for both the AP® Language exam and future rigorous writing and literature courses. Instruction will include a reflective essay, nonfiction review, literary analysis, and research. Students will study college-level vocabulary and grammar in preparation for college entrance exams. Reading activities will include the study and analysis of rhetorical modes of discourse through essays, speeches, letters, plays, and multi-media texts. Upon completion, students are expected to pay for and to take the AP® English Language Exam. In addition, students are encouraged to read over the summer as well.

0112**World Literature*****11, 12****0.5**

This course is for students who want to gain a worldview of literature. It presents literature which goes beyond political and geographical boundaries. It will focus on select literary works from different countries. Students should have a high degree of interest in the humanities and have the ability to discuss and write about literary concepts. In addition, students are encouraged to read over the summer as well.

0146B**Technical and Career Writing*****11, 12****0.5**

Students will take part in an introduction to the practical aspects of writing documents for college and career readiness. Emphasis will be placed on using technology to create resumes and to write cover and thank-you letters. In addition, students will use technology to research careers and to create infographics, blogs, websites, podcasts, and videos. Students will strengthen their communication and writing skills through a review of grammar, usage, spelling and vocabulary. The use of nonfiction reading materials from current event articles and memoirs will strengthen reading levels and help students connect real-life applications. In addition, students are encouraged to read over the summer as well.

0111**British Literature*****11, 12****0.5**

The students will be introduced to a broad and fundamental background in British literature. The students will be expected to have a high degree of interest and be able to read on grade level or above. A variety of prose, poetry, and drama will be presented as established through the ages. In addition, students are encouraged to read over the summer as well.

0113**College Credit Public Speaking*****11, 12****0.5**

Students may acquire three hours of college credit through East Central College.

This college level course covers the basic elements of public speaking including speeches to inform, to demonstrate, to persuade, and to entertain. Assignments include research, composition, evaluation and presentation of speeches. Students prepare speech outlines and participate in practice of elevation techniques. This course is offered on the WHS campus during the regular school day. Students pay college hourly tuition. Students taking this course will receive both high school and college credit. In addition, students are encouraged to read over the summer as well.

***Denotes semester**

0140
Novels***11, 12****0.5**

This course enriches students who like to read and work independently. Students will improve reading, writing, and analytical skills; choose novels from individual and/or selected approved lists; and create written and visual research projects that pertain to various aspects of a novel. Students are directed to read, think, and create independently, yet they will work one on one with the teacher and share their novels and projects with the class. The course is designed to instill a lifelong passion for reading. In addition, students are encouraged to read over the summer as well.

0147
Speech and Debate***11, 12****0.5**

Prerequisite: Grade of C or higher in previous English course
This semester course is designed to increase organizational and public speaking skills. During the first quarter, students will utilize research skills and deliver a variety of speeches. They will also learn to analyze audiences and evaluate effective speech delivery. Speakers will gain poise and improve delivery through voice, posture, gestures, and eye contact. In the second half of the semester, students will learn the techniques and rules of traditional debate and have the opportunity to apply those techniques.

0118
**Newspaper & Magazine Journalism:
*The Advocate*****10, 11, 12****1.0**

Admission through application.
By producing the in-school newsmagazine and online news site, *The Advocate*, students will improve their Language Arts skills. They will be responsible for interviewing, writing and editing stories; taking and editing photographs; selling and designing advertising; creating and integrating multimedia stories for online presentation; and designing and laying out pages using Adobe software. Additionally they will learn firsthand the importance of fairness and the responsibilities of journalism. Students must have the ability to meet deadlines necessary for completing a quality publication. Seniors who take at least two years of newspaper/magazine may request to count one of the credits toward the fourth year, English graduation requirement.

01151
College Credit Composition I***10, 11, 12****0.5**

Students may acquire three hours of college credit through East Central College.

Prerequisite: Senior status in good standing or sophomores or juniors with a B or higher in prior English

Students will focus on developing their ability to express ideas through the written word. In particular, students will work on using the writing process to create thesis-driven, analytical essays. Students will develop their skills to write in Standard American English. Students will also work in peer editing situations. This course is offered on the WHS campus during the regular school day. Students pay for three hours of college tuition. Students taking this course will receive both high school and college credit.

01152
College Credit Composition II***10, 11, 12****0.5**

Students may acquire three hours of college credit through East Central College.

Prerequisite: Grade of "C" or better in College Credit Composition I

This course features a close look at literary analysis and writing about literature at a college level. Students will continue the study of composition from the first semester, adding research and incorporation of outside texts into original compositions.

0120
TV Production**10, 11, 12****1.0**

Prerequisite: Intro to Broadcast News Writing & Production
Admission through application.

This class teaches the skills needed to research, write scripts, interview, present, and edit TV programs. Working in production teams, students become the staff of the "Blue Jay Journal TV" and "Friday Show" television programs. They are responsible for all aspects, including writing, filming, and editing programs. Students must have the ability to meet deadlines. The class produces a new 10-minute program every two to three weeks and a weekly announcement show. Students are also responsible for writing blogs and other articles for the Blue Jay Journal TV website. The shows and blogs are news and feature programs aired as a public service about Washington High School and the community.

***Denotes semester**

0119**Photojournalism: Yearbook****10, 11, 12****1.0****Admission through application.**

This course involves students as staff members responsible for producing the Washington yearbook. The course continues the theory and practice of journalism: concept, advertising, theme, and feature writing, along with the theory and practice of major art forms— photography, design, graphics, and layout techniques. Students may take this class for an English elective credit. In the study of photojournalism, students will learn the basic skills of accurately relaying information through print by producing a yearbook. This course enables students to develop skills in a cross-curriculum concept. Students will practice journalistic skills in reporting, editing, and journalistic writing, as well as develop creative skills through layout, design, and photography. Students must have the ability to meet deadlines necessary for completing a quality yearbook. Staff members will have individually assigned tasks and team projects. Seniors who take at least two years of yearbook may request to count one of the credits toward the fourth year, English graduation requirement.

0135**Intro to Mass Media*****9, 10, 11, 12****0.5**

Students will examine modern media to develop skills necessary to succeed in today's journalistic workplace. After seeing how media functions, students will learn the basics of video production. Successful students can apply to Blue Jay Journal. A \$10 fee will help purchase necessary supplies.

0123**Acting*****11, 12****0.5****Prerequisite:** Drama II or by permission of teacher.**Acting earns student a Fine Art credit.**

This class is an in-depth study of acting and preparing to be a part of performance. Movement, voice, and imagination will be studied. Students will fine tune improvisation skills to help develop character and imagination. Students will work with multiple scripts to take character from idea to performance. Students will have the opportunity to direct their peers in scene studies. Students will analyze and evaluate a variety of theatre presentations. Students will perform a showcase of one-acts for the final project. Fine Art credit can also be obtained by taking Drama I, Drama II, and Acting.

0121**Drama 1*****9, 10, 11, 12****0.5****Prerequisite:** None**Drama I earns student a Fine Art credit.**

This is a survey class to familiarize students with theatre. Through performance, students will learn about stage movement, voice, use of imagination and improvisation, and the development of characterization. Students will also study playwriting to create and perform their own scripts. In addition, students will study dramatic literature and theatre history. This class is a pre-requisite to taking the further drama classes.

0122**Drama II*****9, 10, 11, 12****0.5****Prerequisite:** Drama I or by permission of teacher.**Drama II earns student a Fine Art credit.**

Drama II is a more in-depth study of the content of Drama I with special emphasis on acting skills and the finer points of technical theatre. Students will also design a technical plot for a show from sets to lights to costumes. In-depth study of taking a show from conception through performance will be studied. Students will create one-acts as part of a playwriting unit. The final product of the class will be a one-act performance the class chooses, produces, and performs. Fine Art credit can also be obtained by taking Drama I, Drama II, and Acting.

0098**ACT/College Prep Course****1st Semester*****11, 12****0.5**

The course is open to all juniors and seniors. Seniors are encouraged to enroll in the first semester course and juniors the second semester, but students may enroll in either semester. The focus of this course is to prepare students to take the ACT. Students will spend equal time improving skills in mathematics, science, English, and reading comprehension as they relate to the ACT. Students are allowed to take this course one time only.

***Denotes semester**

0128**Mythology*****11, 12****0.5**

This semester course is a survey of classical mythology. As a source of symbols and allegories, mythology was employed by the Greeks and Romans in their literature, art, and civilization. Students will read and analyze carefully the most prominent ancient versions of myths, such as Ovid's "Metamorphoses," Hesiod's "Theogony," and Homer's *Iliad*. Curriculum covers the major and minor heroic cycles of Greek legend and concludes with the Trojan wars and their aftermath. Students will reflect on the possible meanings of those myths, both for the ancients and for today. This course is reading and writing intensive. In addition, students are encouraged to read over the summer as well.

0149S**AP® Seminar****10, 11, 12****1.0**

Prerequisite: B or higher in English II

In this course, students will consider issues from multiple perspectives, identify credible sources, evaluate strengths and weaknesses of arguments, and make logical, evidence based recommendations. Students will choose and investigate a variety of topics through various viewpoints. During the course, students will complete a team project and an individual paper and presentation, as well as take a written End-Of-Course exam. These components contribute to the overall AP® Seminar score. AP® Seminar is a prerequisite for AP® Research. The AP® Seminar class is the first class in the AP® Capstone Diploma Program. AP® Capstone™ is a diploma program based on two AP® courses: AP® Seminar and AP® Research. These yearlong courses focus on developing the critical thinking, research, collaboration, time management, and presentation skills needed for college-level work.

0124**Film Studies*****11, 12****0.5**

Prerequisite: English I and English II

Film Studies is a writing intensive survey course meant to examine how cinema uses aspects of fictional narrative and cinematic techniques to create meaning. This course will feature a sequence of thematically linked film studies to help students better understand the inner workings of the form and function of film. In addition to thematic studies, students will complete a series of writing assignments in which their ability to write fictional analysis paragraphs and papers and their usage of the writing process will be assessed. Nonfiction and ACT-related standards will be assessed and worked on over the course of the class. In order to fulfill research standards, students will also conduct an independent research project on a director and their work. The course seeks to encourage students to think critically about the art of cinema and connect their knowledge of fiction with the films they study in the course.

0099**ACT/College Prep Course****2nd Semester*****11, 12****0.5**

The course is open to all juniors and seniors. Seniors are encouraged to enroll in the first semester course and juniors the second semester, but students may enroll in either semester. The focus of this course is to prepare students to take the ACT. Students will spend equal time improving skills in mathematics, science, English, and reading comprehension as they relate to the ACT. Students are allowed to take this course one time only.

0149R**AP® Research****11, 12****1.0**

Prerequisite: C or higher in AP® Seminar

In AP® Research, students will explore various research methods and complete an independent research project. The project can build on a topic, problem, or issue covered in AP® Seminar or on a brand new topic of choice. At the end of the project, students submit an academic paper, as well as present and defend their research findings. These components contribute to the overall AP® Research score. There is no end-of-course exam. AP® Research is only available to students who have taken AP® Seminar. The AP® Research class is the second class in the AP® Capstone Diploma Program. AP® Capstone™ is a diploma program based on two AP® courses: AP® Seminar and AP® Research.

***Denotes semester**



English Language Learners

Course Title	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement								Application/Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective			
High School ELL I		■	◆				✓				•					*		
High School ELL II		■		◆			✓				•					*		
High School ELL III		■			◆	◆	✓				•					*		
High School ELL IV		■				◆	✓				•					*		
High School ELL Essentials		■	◆	◆	◆						•					*		

*Denotes semester

English Language Learners (ELL) Department Course Descriptions

0988

High School ELL I (Level 1)

9

1.0

Prerequisite: Instructor Approval, depending on English language proficiency This course is designed for students who, while enrolled in main- stream content, can still benefit from an ELL curriculum. These students are identified as having some English proficiency and/or are in the ninth grade. Emphasis is placed on acquiring more academic skills in listening, reading, speaking and writing. This intensive instruction in a supportive and non-threatening environment, allows ELLs to make necessary academic and social adjustments as they enter Washington High School. Placement in this class is determined by WAPT/ACCESS scores and ELL staff recommendation.

Grade (9) -- or depending on English language proficiency.

0989

High School ELL II (Level 2)

10

1.0

Prerequisite: Instructor Approval, depending on English language proficiency English language learners who have an intermediate proficiency determined by WAPT/ACCESS scores and ELL staff recommendation are eligible for this class. Continuing growth in the areas of listening, speaking, reading and writing will be emphasized. Further development of the American culture and an increased awareness of academic standards are introduced. Grade (10) or depending on English language proficiency.

0987

High School ELL III (Level 3)

11

1.0

Prerequisite: Instructor Approval, depending on English language proficiency English Language Learners who are progressing into advanced proficiency levels, but still need to strengthen their skills for regular English classes and more intense core curriculum, need to enroll in this course. Emphasis is placed on improving grade-level reading, writing satisfactory essays, and improving foundations for writing. This class will also prepare seniors for reading and writing levels beyond high school. Placement in the class is determined by WAPT/ ACCESS scores. ELL staff recommendations are allowed for this class. Grade level recommended 11.

0990

High School ELL IV (Level 4)

12

1.0

Prerequisite: Instructor Approval, depending on English language proficiency

English Language Learners who are progressing into advanced proficiency levels, but still need to strengthen their skills for regular English classes and more intense core curriculum, need to enroll in this course. Emphasis is placed on improving grade-level reading, writing satisfactory essays, and improving foundations for writing. This class will also prepare seniors for reading and writing levels beyond high school. Placement in the class is determined by WAPT/ ACCESS scores. ELL staff recommendations are allowed for this class. Grade level recommended 12.

0985

High School ELL Essentials

9, 10, 11, 12

1.0

Prerequisite: Instructor Approval

This course is designed for students who, while enrolled in mainstream content courses, continue to require additional ELL support in the Language Arts curriculum. These students typically have not received an elementary education in the USA, and need instruction in basic grammar concepts that is taught during that grade level. ELL Essentials class focuses on a major grammar review of essential structures, verbs usage, nouns, parts of a sentence, past and present tense and key content vocabulary words. Emphasis will be placed on reading comprehension of a variety of genres at grade level and writing proficiency. Placement in this class is determined by WAPT/ACCESS scores and ELL staff recommendation.



World Languages

Course Title	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisite(s)	Graduations Requirements								College/Dual Credit/AP®	Teacher Recommendation	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective			
Spanish I		■	◆	◆	◆	◆									•			*
Spanish II		■	◆	◆	◆	◆	✓								•			
Honors Spanish II		■	◆	◆	◆	◆	✓								•		*	
Spanish III		■		◆	◆	◆	✓								•			
Honors Spanish III		■		◆	◆	◆	✓								•			
Spanish IV		■			◆	◆	✓								•			
AP® Spanish Language & Culture		■				◆	✓								•		*	
German I		■	◆	◆	◆	◆									•			
German II		■	◆	◆	◆	◆	✓								•			
Honors German II		■	◆	◆	◆	◆	✓								•		*	
German III		■			◆	◆	✓								•			
Honors German III		■			◆	◆	✓								•			
German IV		■				◆	✓								•			
French I		■	◆	◆	◆	◆									•			
French II		■	◆	◆	◆	◆	✓								•			
Honors French II		■	◆	◆	◆	◆	✓								•		*	
French III		■			◆	◆	✓								•			
Honors French III		■			◆	◆	✓								•		*	
French IV		■				◆	✓								•			
Honors French IV		■				◆	✓								•		*	

*Denotes semester

World Languages

Course Descriptions

0150 Spanish I

9, 10, 11, 12

1.0

Prerequisite: 8th or 9th grade students taking Spanish I should have an 80% grade in Language Arts.

Spanish I is an introductory course for the Spanish language. Students will learn to speak, read, and write common words and phrases about themselves, their families, foods, sports, school, etc. Classroom instruction will utilize listening practices via a computer web application of the text “Avancemos 1”, video, and Smartboard technologies in addition to the teacher’s instruction to reinforce vocabulary pronunciation and grammar comprehension. In-class presentations and engaging projects are a major focal point to help students remain enthusiastic about learning the Spanish culture and heritage. Historical, cultural, and geographical aspects of the Spanish world will also be explored through various readings and discussions.

0152 Spanish III

10, 11, 12

1.0

Prerequisite: Spanish II or Spanish II Honors with at least a 70% average
AND teacher recommendation.

Spanish III students will continue working toward fluency of the spoken language. Emphasis will be placed on verbal expression and comprehension. Spanish III students will progress through advanced grammar and vocabulary which includes the imperfect, compound tenses such as the preterite perfect and pluperfect, future, and conditional tenses. In addition to a computer web application of the text “Avancemos 3”, students will utilize various sources of Spanish literature, poetry, film, and music to expand their knowledge of grammar, vocabulary, and culture.

0151 Spanish II

9, 10, 11, 12

1.0

Prerequisite: Passing grade in both semesters of Spanish I required; completing Spanish I with a grade of 70% or higher highly encouraged

Spanish II students will continue to broaden their knowledge of the Spanish language through more detailed practice of reading and writing in the target language. Through use of a computer web application of the text, “Avancemos 2”, and various other resources, emphasis will be placed on grammatical structures, including, past, present, and future tenses. Students will build these writing skills through carefully written compositions, engaging projects, and in-class presentations. Historical, cultural, and geographical aspects of the Spanish world will also be explored through various readings and discussions.

0152H Honors Spanish III

10, 11, 12

1.0

Prerequisite: grade of 80% or higher required in Spanish II and teacher recommendation

In many respects, Spanish III Honors is a similar course to Spanish III. The primary difference between Spanish III and Spanish III Honors will be pacing. The Honors class will move at a faster pace to better prepare students for upper Spanish levels and AP Spanish.

0151H Honors Spanish II

9, 10, 11, 12

1.0

Prerequisite: grade of 80% or higher required in Spanish I and teacher recommendation

In many respects, Spanish II Honors is a similar course to Spanish II. The primary difference between Spanish II and Spanish II Honors will be pacing. The Honors class will move at a faster pace to better prepare students for upper Spanish levels and AP Spanish.

0153 Spanish IV

11, 12

1.0

Prerequisite: Spanish III with at least a 70% average and teacher recommendation.

Spanish IV students will read from various college level readers in addition to covering additional material from a computer web application of “Avancemos”. Intricacies of grammar will be explored, including the subjunctive, present and past participles as used with compound past tenses, and future tenses. Students will continue to perfect their speaking abilities with class presentations and discussions. In addition to the text, students will utilize Spanish literature, poetry, film, and music to expand their knowledge of grammar, vocabulary, and culture. Students can obtain a Seal of Biliteracy, which is an award that encourages them to pursue and attain a high level mastery of two or more languages, for example, English and Spanish. Successful students will be awarded college credit (generally 12-18 credits depending on the school) at participating universities.

***Denotes semester**

0154**AP® Spanish Language & Culture****12****1.0**

Prerequisite: Spanish IV with at least a 70% average and teacher recommendation.

In this course students will develop their Spanish language skills and learn about the cultures in Spanish-speaking parts of the world. They will practice communicating in Spanish and study real-life materials such as newspaper articles, films, music, and books. Students can also obtain a Seal of Biliteracy, which is an award that encourages them to pursue and attain a high level mastery of two or more languages, for example, English and Spanish. Successful students will be awarded college credit (generally 12-18 credits depending on the school) at participating universities.

0155**German I****9, 10, 11, 12****1.0**

Prerequisite: None

This course introduces basic in German grammar and vocabulary study as well as the German culture. Major emphasis will be placed on speaking, comprehending authentic German dialog, projects and writing.

0156**German II****9, 10, 11, 12****1.0**

Prerequisite: German I, for Honors German II students must have teacher recommendation and a grade of B or better in German I

This course is a continuation of German I. Students will continue to improve their speaking, reading, writing, and understanding of the German culture. Students expand their reading to include short stories. They will continue to demonstrate their language skills through speaking, projects, and writing

0156H**Honors German II****9, 10, 11, 12****1.0**

Prerequisite: German I, for Honors German II students must have teacher recommendation and a grade of B or better in German I.

Honors German II will have an enhanced focused on the curriculum for German II. Honors students can expect assignments that are more rigorous and go more in depth.

0157**German III****11, 12****1.0**

Prerequisite: German II

In this course students will continue to advance their grammar skills. Students will expand their vocabulary and comprehension skills through reading authentic German stories including the Brothers' Grimm fairy tales and authors such as Erich Kastner and Michael Ende. Students will read in German about famous Germans. Emphasis will be placed on speaking fluently and writing in response to reading selections and current issues. This course has the potential of giving the student college credit at most universities.

0157H**Honors German III****11, 12****1.0**

Prerequisite: German II, for Honors German III students must have teacher recommendation and a grade of B or better in German II.

Honors German III will have an enhanced focused on the curriculum for German III. Honors students can expect assignments that are more rigorous and go more in depth.

0158**German IV****12****1.0**

Prerequisite: German III

Students will expand their vocabulary and comprehension skills through reading authentic German materials. Emphasis will be placed on speaking fluently and writing in response to reading selections and current issues. This course prepares student for the Seal of Biliteracy test, which will allow them to receive college credits at select universities.

***Denotes semester**

**0159
French I****9, 10, 11, 12****1.0**

French I is an introduction to French language and culture, emphasizing basic conversation, listening, reading, and writing in French. Students will learn basic vocabulary and grammatical structures, including present and past tenses. French culture will be explored through various readings, discussions, and research projects.

**0160
French II****9, 10, 11, 12****1.0****Prerequisite: French I**

French II continues the study of French language and culture, with further emphasis on reading and writing. Students will build upon their previous knowledge of French grammar and vocabulary through projects, in-class presentations, compositions and readings. They will be introduced to the imperfect tense. Different aspects of French culture will be studied in more detail.

**0161H
Honors French II****9, 10, 11, 12****1.0****Prerequisite: French I**

Honors French II will have an enhanced focus on the curriculum for French II with an option of getting College Credit. Honors students can expect assignments that are more rigorous and go more in depth.

**0161
French III****11, 12****1.0****Prerequisite: French II**

French III is part of a two-year cycle (with French IV) of historical and literary study of France and the French-speaking world. French III grammar includes the future, and conditional tenses. In addition to the textbook “T’es branché 3” students will utilize French fiction, poetry, film, and music to expand their knowledge of grammar, vocabulary, and culture.

**0161H
Honors French III****11, 12****1.0**

Honors French III will have an enhanced focus on the curriculum for French III with an option of getting College Credit. Honors students can expect assignments that are more rigorous and go more in depth.

**0162
French IV****12****1.0**

French IV is part of a two-year cycle (with French III) of historical and literary study of France and the French-speaking world. French IV grammar includes the subjunctive, present participle, and past infinitive verb tenses. The literary past tense will be introduced. In addition to the textbook “T’es branché 3”, students will utilize French fiction, poetry, film, and music to expand their knowledge of grammar, vocabulary, and culture.

**0162H
Honors French IV****12****1.0****Prerequisite: French III**

Honors French IV will have an enhanced focus on the curriculum for French IV with an option of getting College Credit. Honors students can expect assignments that are more rigorous and go more in depth.

***Denotes semester**



Social Studies

Course Title	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirements							Application/Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective		
United States History		■	◆							•				•			*
Government	■				◆					•				•			*
Ancient World Studies		■		◆	◆	◆				•							
Modern World Studies		■		◆	◆	◆				•							
World Geography	■			◆	◆	◆				•							
Economics	■			◆	◆	◆				•							
Psychology	■			◆	◆	◆				•							*
Sociology	■			◆	◆	◆				•							
Missouri History	■			◆	◆	◆				•							
Vietnam and the Cold War	■			◆	◆	◆				•							
Current Events	■			◆	◆	◆				•							
Eastern World Cultures	■			◆	◆	◆				•							
History of the American	■			◆	◆	◆				•							
Western World Cultures	■			◆	◆	◆				•							
AP® Psychology	■				◆	◆	✓			•						*	*
AP® United States History/ Dual Credit US History		■			◆	◆				•						*	
AP® United States Government & Politics		■		◆	◆	◆	✓			•						*	
AP® Human Geography		■	◆	◆	◆	◆				•						*	

*Denotes semester



WASHINGTON HIGH SCHOOL

SOCIAL STUDIES

3 SOCIAL STUDIES CREDITS ARE REQUIRED FOR HIGH SCHOOL GRADUATION

GRADE

9

U.S. History

AP[®] Human Geography

GRADES
10, 11, 12

Ancient World Studies

Modern World Studies

History of Missouri

Psychology

History of the American West

Cold War & Vietnam Conflict

Economics

Current Events

Sociology

World Geography

AP[®] Human Geography

AP[®] U.S. Government
(with permission)

GRADES
11, 12

Government

AP[®] Psychology

AP[®] U.S. Government

AP[®] / Dual Credit U.S. History

Plus additional courses above.

Social Studies

Course Descriptions

0235 United States History

9 1.0

This course is **REQUIRED** for 9th grade students. Students in this course must pass the United States Civics Test with a score of at least 60 percent to be eligible for graduation.

This course is a study of the history of the United States, with a focus on the period from Reconstruction to the present. The course emphasizes history, government, culture, diversity, economics, and the geography of our nation. State law for high school graduation requires successful completion of one (1) unit of American History. The U.S. Civics test will be given in this course. This test is required for graduation for any and all students who started the 9th Grade in the 2017-2018 school year.

0242 AP® Human Geography

9, 10, 11, 12 1.0

Prerequisite: English I (at WMS or WHS) recommended prior to taking this course or a recommendation from a social studies teacher.

This yearlong course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. This course is offered to all grades, and is open to 9th grade students who successfully completed English I in their 8th grade year.

0200 Government*

11 0.5

REQUIRED or students may enroll in AP® Government and Politics for 1 unit of credit

Students must pass the Constitution Tests and achieve at least a 60 percent in the course to be considered successfully meeting this requirement. Students not meeting both the requirements must retake the course.

This course is designed to teach skills and content in the areas of US Government and Missouri State Government with some emphasis upon Early American History, politics, and basic economics. Course content is based upon key skills and content required by the State of Missouri. The Missouri and US Constitution tests will be given in the course.

0206 Economics*

10, 11, 12 0.5

Prerequisite: None

In this course we will exam the topic of Economics and how it relates to many populations across the globe. There are five areas of focus: Fundamental Economics, Macroeconomics, Microeconomics, International Economics, and Personal Finance Economics. The purpose of this course is for students to have a better understanding of what motivates the world and people around them

0202 Ancient World Studies*

10, 11, 12 0.5

This course is designed to teach social studies skills and content of world history and geography. The course follows a framework based upon objectives and competencies identified by the State of Missouri and the curriculum of the School District of Washington. This course covers history and geography from a global perspective and encompasses civilizations throughout the time period from the *Rise of Humans* up to the end of the *Roman Empire*.

0203 Modern World Studies*

10, 11, 12 0.5

This course is designed to teach social studies skills and content of world history and geography. The course follows a framework based upon objectives and competencies identified by the State of Missouri and the curriculum of the School District of Washington. This course covers history and geography from a global perspective and encompasses civilizations throughout the time period from the *Medieval E*

*Denotes semester

0209 Psychology*	
10, 11, 12	0.5

Prerequisite: None

This course focuses upon the study of human behavior. Emphasis is placed upon biological and environmental influences upon personality development from infancy through maturity. The classification and symptoms of psychological and mental disorders are studied. Recommended for all students. Also see course 0229.

0210 Sociology*	
10, 11, 12	0.5

Prerequisite: None

This course examines the various ways in which people interact with one another in a society. It studies relationships between and within various social groups and social institutions. Contemporary social issues will be studied in order to emphasize basic sociological concepts. Recommended for all students.

0211 History of Missouri*	
10, 11, 12	0.5

Prerequisite: None

This course will provide an overview of the unique and diverse history of Missouri. Students will follow Native American civilizations, through the French trading post, German immigration and the expansion a rural area to an urban state by the end of the 20th century. The course will discuss the development and culture of the diverse people in Missouri. Students examine and debate contemporary, as well as future issues that face our state. This course will provide the unique and diverse history of St. Louis. Students will follow the course of development of this small 18th Century trading post as it expands into a major metropolis at the turn of the 20th Century, and will culminate with an examination of the city as it now exists. The course will discuss individuals who are important to the development of the city, but will emphasize the significant contributions (e.g. architecture, music, art) of the culturally diverse people who have made the city of St. Louis what it is today.

0215 The Cold War and Vietnam Conflict*	
10, 11, 12	0.5

Prerequisite: None

This course will trace the history of the geo-political struggle between the USA and the USSR from its origins in the Russian Revolution to the fall of the Berlin Wall in 1989. In this class, we will explore the history, the causes, and the results of the Cold War and Vietnam Conflict. We will begin with an analysis of Vietnam itself; its people, its ancient beginnings, its complex culture, and its geography. We will delve into the roots of this conflict in the French colonial experience before and after the Second World War. We will examine the beginnings of American involvement in Vietnam in the context of politics, diplomacy, and economics. We will study the military aspects of the conflict, compare and contrast the impact of this conflict on the administrations of Presidents Eisenhower, Kennedy, Johnson, and Nixon, and we will investigate the story of the antiwar movement. We will explore the last years of the Cold War, and an assessment of the impact of the Cold War on the USA, USSR, and the world.

***Denotes semester**

0216**Current Events*****10, 11, 12****0.5****Prerequisite: None**

This course will focus on modern issues in all areas of the social studies: political, economic, and social. The students will read from several sources. Current events will be studied with a historical perspective and projection of future possibilities. Both domestic and international issues will be examined. A large segment of class time will be devoted to discussion. Therefore, classroom participation during discussions will be expected.

0241**AP® United States History****11, 12**

AP® U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In AP® U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society. Students may take this course for high school credit and can earn AP credit by passing the AP exam. It can also be taken as dual credit through East Central College.

0243**AP® Psychology*****11, 12**

AP® Psychology is an introductory college-level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology.

0219**History of the American West*****10, 11, 12****0.5****Prerequisite: None**

This course is a comprehensive examination of the exploration and settlement of the trans-Mississippi West. Using eyewitness accounts, important secondary sources and media, the following topics will be studied: animals, the Indians, explorers, mountain men, miners, military, farmers, ranchers, the Western outlaw and women. In each case, the traditional stereotype will be compared to and contrasted with the historical reality.

0201**World Geography*****10, 11, 12****0.5****Prerequisite: None**

World Geography 1 is a course intended to familiarize students with the world using the five geographic themes and essential elements. Students will develop skills and knowledge about location, place, human-environment interaction, movement, and regions. This course will compare and contrast these themes across all continents. This course will focus on geographic habits of the mind to promote higher level thinking and problem solving. Students will be required to apply skills and knowledge to content information involving many different regions of the world. World Geography will integrate thinking skills, historical process, and content so that students are able to apply the learning to their own lives. Instruction will include the integration of concepts and principles from history, economics, geography, civics, and the humanities.

0240**AP® United States Government & Politics****11, 12****0.5****Prerequisite: Junior or Senior (Sophomore with teacher recommendation)**

This course is designed to challenge students who are interested in government and who are capable of demanding advanced work. Students in this course study the history, institutions, branches, functions. Electoral processes, and citizens' role of the governments of the local area, the state of Missouri, and the United States. The course includes an emphasis on the rights and responsibilities of citizenship (e.g., community service) as well as a study of the principles and provisions of the Missouri and the United States Constitutions. The Constitution examination(s) and the course must be passed according to Missouri law in order for a student to receive a graduation certificate and the course includes the End of Course Assessment required by the state of Missouri. This course prepares students to take the College Board AP® U.S. Government and Politics examination.



Mathematics

Course Title	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement						Application/Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Elective		
Pre-Algebra		■	◆					•								
Algebra I Concepts		■	◆	◆				•								
Geometry Concepts		■		◆	◆		✓	•								
Algebra II Concepts		■			◆	◆	✓	•								
Algebra III Concepts		■				◆	✓	•								
Algebra I		■	◆				✓	•								*
Geometry		■	◆	◆			✓	•								
Algebra II		■	◆	◆	◆	◆	✓	•								
Honors Geometry (Pre AP®)		■	◆				✓	•								
Honors Algebra II (Pre AP®)		■	◆	◆			✓	•								
College Prep Algebra		■			◆	◆	✓	•								
College Credit College Algebra		■			◆	◆	✓	•							*	
Discrete Math	■				◆	◆	✓	•								
Pre-Calculus		■			◆	◆	✓	•								
AP® Calculus AB		■			◆	◆	✓	•							*	
AP® Calculus BC		■				◆	✓	•								
Trigonometry		■			◆	◆	✓	•								
Math Analysis & Statistics		■			◆	◆	✓	•								
AP® Statistics		■			◆	◆	✓	•							*	
PLTW Computer Science I Essentials (CSE)		■	◆	◆	◆	◆	✓					•		•		
PLTW Computer Science II Principles (CSP)		■		◆	◆	◆	✓					•		•		
PLTW III-Computer Science A (AP®)		■			◆	◆	✓					•		•		*

NOTE: Three years of math credits are required for graduation.

Mathematics

Course Descriptions

0327

Pre-Algebra

9

1.0

Prerequisite: None

This course is designed for students not yet ready for Algebra and will focus on developing students' understanding of mathematics. Topics covered will include operations on rational numbers, simplifying algebraic expressions, manipulating formulas, solving linear equations and inequalities, graphing linear equations and inequalities, proportions, problem solving, and elementary statistics and probability. It is recommended that students successfully completing Pre-Algebra continue with Algebra I Concepts

0301

Algebra I Concepts

9, 10

1.0

Prerequisite: None

The content of this course is equivalent to Algebra I but presented with fewer complications. Topics covered include real numbers, statistics, solving linear and quadratic equations, solving linear inequalities, graphing linear and quadratic functions, solving systems of equations, exponents and exponential functions, polynomials, factoring, simplifying rational expressions, and radicals. This course meets the state Algebra requirement for graduation. Students will prepare for and take the Missouri State Algebra I EOC Test at the end of the year. It is recommended that students successfully completing Algebra I Concepts continue with Geometry Concepts.

0313

Geometry Concepts

10, 11

1.0

Prerequisite: "C" in Algebra I Concepts

The content of this course is equivalent to Geometry but presented with fewer complications. A thorough study of geometric shapes and figures including circles and polygons will be made. Congruence, similarity, area, volume and constructions will be studied. Students will use logic, deductive and inductive reasoning to draw conclusions. It is recommended that students successfully completing Geometry Concepts continue with Algebra II Concepts

0316

Algebra II Concepts

11, 12

1.0

Prerequisite: C in Geometry Concepts

The content of this course is equivalent to Algebra II but presented with fewer complications. This course is an extended study of all topics covered in Algebra I Concepts along with additional topics including sequences and series, matrices and complex numbers. It is recommended that students successfully completing Algebra II Concepts continue with Algebra III Concepts.

0340

Algebra III Concepts

12

1.0

This course is designed to prepare students for the mathematics encountered in a two-year college course of study, a technical school or the world of work. This course is an extended study of topics covered in Geometry Concepts and Algebra II Concepts. Additional topics will include three dimensional figures, right angle trigonometry, applications to the skilled trades and ACT Prep. The focus will be directed towards simplifying expressions, manipulating formulas, analyzing linear and quadratic functions and problem solving.

0303

Algebra I

9

1.0

Algebra I is a basic but thorough course in beginning Algebra in which students will lay the foundation for all further mathematical study. Topics include properties of real numbers, laws of exponents, solutions of linear and quadratic equations, polynomials, problem solving, functions, graphs, rational and irrational numbers. Students will prepare for and take the Missouri State Algebra I EOC exam at the end of the year.

***Denotes semester**

0305**Geometry****9, 10****1.0****Prerequisite:** “C” in Algebra I

This course is a study of plane Euclidean geometry including proofs. The student will use deductive reasoning and logic to draw conclusions when given certain facts. A study of geometric shapes and figures, congruence and similarity, area, volume, constructions, plane and three-dimensional figures and their theorems, postulates and definitions are included

0304**Algebra II****9, 10, 11, 12****1.0****Prerequisite:** “C” in Geometry or “C” in Honors Geometry (Pre AP®)

This course is an extended study of all topics covered in Algebra I along with additional topics including sequences and series, matrices, complex numbers, logarithms, and conic sections. A graphing calculator is required (TI83 or TI84+ preferred).

0304**Honors Geometry (Pre AP®)****9****1.0****Prerequisite:** “B” in Eighth Grade Algebra I

This course is a study of plane Euclidean geometry including proofs. The student will use deductive reasoning and logic to draw conclusions when given certain facts. A study of geometric shapes and figures, congruence and similarity, area, volume, constructions, plane and three-dimensional figures and their theorems, postulates and definitions are included. The necessary instructional rigor will be applied to prepare students for the study of Calculus in the 12th Grade.

0335**Honors Algebra II (Pre AP®)****9, 10****1.0****Prerequisite:** “A” in Geometry or “B” in Honors Geometry (Pre AP®)

This course is an extended study of all topics covered in Algebra I along with additional topics including sequences and series, matrices, complex numbers, logarithms, and conic sections. A graphing calculator is required (TI83 or TI84+ preferred). The necessary instructional rigor will be applied to prepare students for the study of Calculus in the 12th Grade.

0345**Discrete Math*****11, 12****0.5****Prerequisite:** “C” in Algebra II or “C” in Honors Algebra II (Pre AP®)

This course is intended for students who are interested in, but not limited to degrees in computer science and the social sciences. The content will focus on contemporary topics in mathematics including number theory, voting methods, cryptology, networking, logic, number systems, optimization, and cyber security.

0328**College Prep Algebra****11, 12****1.0****Not for College Credit****Prerequisite:** “C” in Algebra II or “C” in Honors Algebra II (Pre AP®).

This course is intended for students who do not meet the requirements or do not wish to take College Credit College Algebra. This course is a thorough study of Algebra at the beginning college level. Topics covered will include graphing functions, models, polynomials, rational, exponential and logarithmic functions, and systems of equations. A graphing calculator is required (TI84+ preferred)

***Denotes semester**

0320**College Credit College Algebra****12****1.0**

Prerequisite: “B” in Algebra II or “B” in Honors Algebra II (Pre AP®). Satisfactory score on College Placement Test for college credit.

College Algebra is a fourth year math class available to seniors only. Students may take this course for high school credit or college credit through East Central College. Students wishing to take the course for college credit must use course code 0320 when registering.

College credit courses require students to meet ECC Placement guidelines and to pay for books and tuition. This course is a thorough study of Algebra at the beginning college level. Topics covered will include graphing functions, models, polynomial, rational, exponential and logarithmic functions, and systems of equations, matrices, conic sections, sequences and series. The student pays for college tuition and books.

A graphing calculator is required (TI84+ recommended)

0325**Pre-Calculus****11, 12****1.0**

Prerequisite: “B” in Algebra II or “C” in Honors Algebra II (Pre AP®). Satisfactory score on College Placement Test for college credit.

This course is a complete study of triangular and circular trigonometry. Other topics included are advanced algebra, polar equations, an informal approach to limits and continuity of functions, solutions of higher degree equations, and curve sketching. A graphing calculator is required (TI84+ preferred).

0307AB**AP® Calculus AB****11, 12****1.0**

Prerequisite: “B” in Pre-Calculus
Satisfactory score on College Placement Test for college credit.

Students may take this course for high school credit, college credit through East Central College, or they may obtain credit by passing the AP® exam. College credit courses require students to meet ECC Placement guidelines and to pay for fees and tuition. An application of all previously learned mathematics will be used to study the development of calculus through limits and continuity. This course will include the study of functions, derivatives, and integrals. It is the equivalent of a 1st semester college course in Calculus. Students will be prepared to take the AP® Test or the East Central Final Exam for possible college credit. A graphing calculator is required (TI84+ preferred).

0306**Trigonometry****11, 12****1.0**

Prerequisite: “C” in Algebra II or “C” in Honors Algebra II (Pre AP®)

This course deepens and broadens understanding of trigonometry in Geometry. Topics covered include trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers, as well as an introduction to the concept of limit. This course could be taken in conjunction with College Credit College Algebra for students who wish to pursue AP® Calculus.

0324**AP® Statistics****11, 12****1.0**

Prerequisite: “B” in Algebra II

This course entails a very thorough study of introductory statistics designed to prepare students for the AP® Statistics Exam and possible college credit. Students will explore the definitions and symbols used in statistics and probability. Topics covered will include frequency distributions, statistical descriptions, probability, basic distribution theory, confidence intervals and analysis of data. Formulas will be used extensively to analyze data. This course is not a replacement, Pre-Calculus or Calculus but an elective to enhance one’s study of mathematics. A graphing calculator is required (TI84+ preferred).

0307BC**AP® Calculus BC****12****1.0**

Prerequisite: “B” in Calculus AB, Satisfactory score on College Placement Test for college credit

Students may take this course for high school credit, college credit through East Central College, or they may obtain credit by passing the AP® exam. College credit courses require students to meet ECC Placement guidelines and pay for fees and tuition. An application of all previously learned mathematics will be used to further study the development of calculus. Students will cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. Students will be prepared to take the AP® Test or the East Central Final Exam for possible college credit. A graphing calculator is required (TI84+ preferred).

***Denotes semester**

0319
Math Analysis & Statistics

11, 12

1.0

Prerequisite: “C” in Algebra II or “C” in

Honors Algebra II (Pre AP)

This course is intended for students following the PLTW Biomedical Pathway, CAPS, Teaching Careers Pathway, or Health Occupations students who may intend to take CC College Algebra. Advanced mathematical concepts to be covered include rational functions, conic sections, polar equations, matrix operations and applications. Statistical topics covered will include frequency distributions, statistical descriptions, probability, basic distribution theory, confidence intervals and analysis of data. This course is not a prerequisite for AP® Statistics, but to enhance one’s study of statistics. A graphing calculator is required.

PLTW Computer Science I, II, and III, IV

(See FRCC section – Page 78)

9, 10, 11, 12

1.0

See description and course numbers in the Four Rivers Career Center (FRCC) section, beginning on page 77.

***Denotes semester**



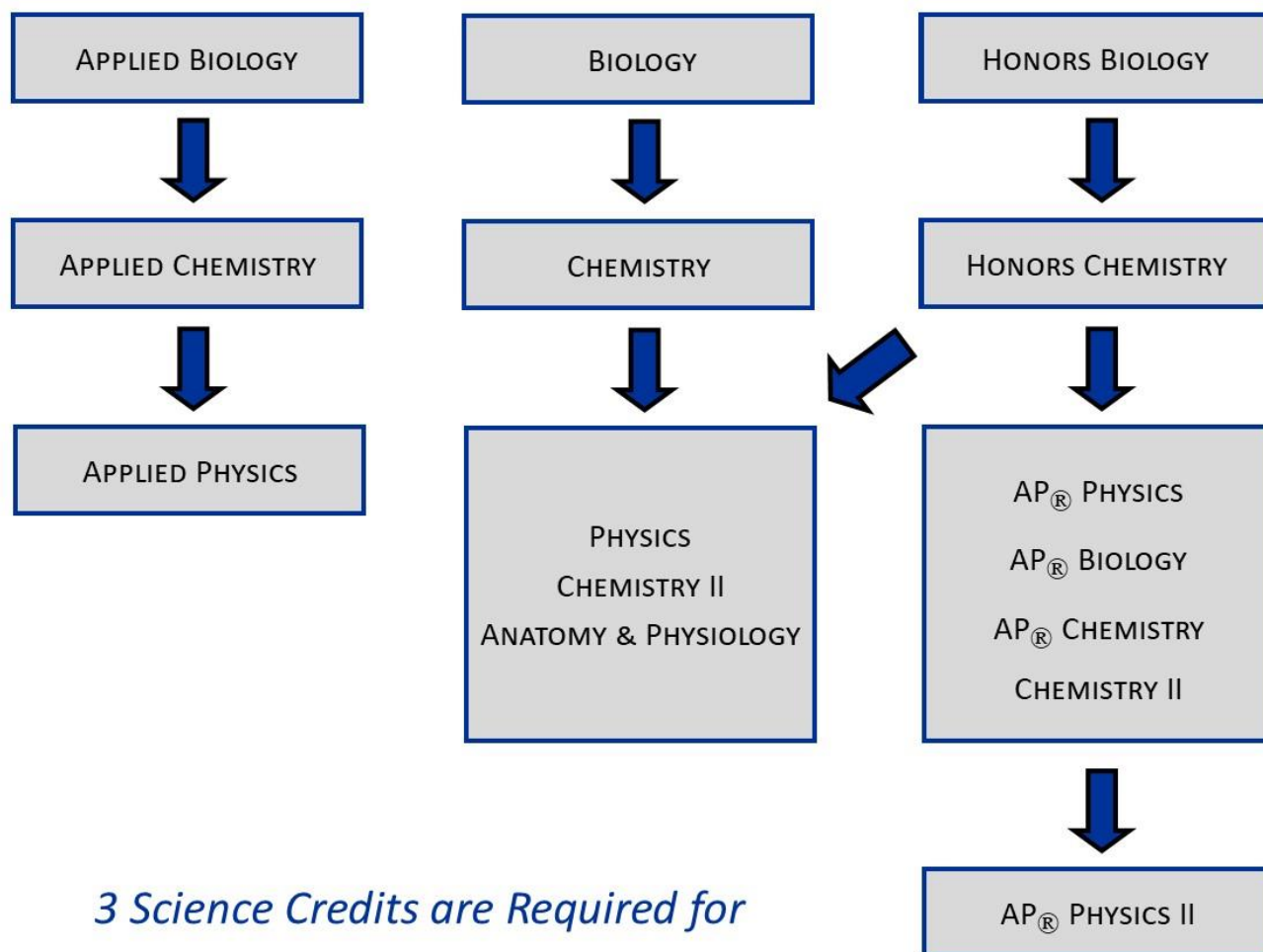
Science

Course Title	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement							Application/Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective		
Applied Biology		■	◆	◆	◆	◆			•								
Biology I		■	◆	◆	◆	◆			•								*
Honors Biology (Pre AP®)		■	◆	◆	◆	◆			•								
Anatomy & Physiology		■		◆	◆	◆	✓		•								
Applied Chemistry		■		◆	◆	◆	✓		•								
Chemistry I		■		◆	◆	◆	✓		•								
Honors Chemistry I (Pre AP®)		■		◆			✓		•								
Chemistry II		■			◆	◆	✓		•								
Applied Physics I		■			◆	◆	✓		•								
Physics I		■		◆	◆	◆	✓		•								
AP® Physics I		■			◆	◆	✓		•							*	
AP® Physics II		■				◆	✓		•						*	*	
AP® Biology		■			◆	◆	✓		•							*	
AP® Chemistry		■			◆	◆	✓		•							*	
PLTW Biomed I- Principles of Biomedical Science		■	◆	◆	◆	◆						•			•		
PLTW Biomed II- Human Body Systems		■		◆	◆	◆	✓					•			•		
Health Science Academy (This class is available as a 2 hour or 3 hour block) *Medical Intervention *Biomedical Innovation		■			◆	◆	✓					•		•		*	

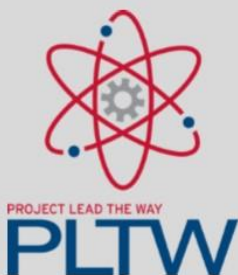
*Denotes semester



SCIENCE



*3 Science Credits are Required for
High School Graduation*

**PROJECT LEAD THE WAY (PLTW) BIOMED SERIES:**

Grades 9-12: Principles of Biomedical Science

Grades 10-12: Biomed II—Human Body Systems

Grades 11-12: Health Science Academy

(Medical Intervention, Biomedical Innovation)

PLTW Courses count as practical art or elective credit, not science credit.

Science Department Course Descriptions

0404 Applied Biology

9, 10, 11, 12 1.0

Applied Biology uses laboratories, hands on activities and lecture to teach the big ideas of Biology. Students will master the use of the microscope and graphing technique. Topics to be studied include the nature of science, cells and the cell life cycle, photosynthesis, ecology, genetics, adaptations to the environment, and kingdoms of life.

0407 Biology I

9, 10, 11, 12 1.0

Prerequisite: None

Biology I covers the topics of cells, genetics, animals, plants, and ecology. It is an introductory course in traditional high school biology, with many opportunities for learning through laboratory and hands-on activities

0407H Honors Biology I (Pre AP®)

9, 10, 11, 12 1.0

Honors Biology I is a Honors Biology (Pre AP®) course and is designed for students that are planning to take AP® Biology junior or senior year. Honors Biology I covers the topics of scientific method, cells, genetics, animals, plants, adaptations, and ecology. Honors Biology I will move at a faster pace and cover more depth than Biology I in order to better prepare students for the AP® Biology course. Laboratory activities will and exams will model the AP® Biology format. Students will take the state exam (EOC) in Biology at the end of this course.

0406 Anatomy & Physiology

11, 12 1.0

Prerequisite: Biology I (minimum grade of “C”) and Chemistry I (minimum grade of “A”) 10th grade students may take this course with department chair approval and must be concurrently enrolled in Chemistry I.

This course provides an intense focus on the human body relating structure and function to understand how the human body works. First semester will focus on gross anatomy, comparative anatomy and histology. Second semester will focus primarily on physiology of the human body systems and common human disease processes. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. This is a laboratory based course that will include dissections of preserved specimens, microscopic study, physiological experiments and more.

0405 Applied Chemistry

10, 11, 12 1.0

Applied Chemistry will focus on the application of chemistry in everyday life through the concepts of matter and its structure, writing chemical formulas, balancing chemical equations, and hands-on problem solving activities. This course has occupational relevance and helps students see the chemistry that happens around them daily. Applied Chemistry provides an option for students who want to

0409 Chemistry I

10, 11, 12 1.0

Prerequisite: Algebra I and Biology I (minimum grade of “C”)

This course explores matter and energy, the structure of the atom, chemical formulas and equations, the gas laws, the periodic table and electron configurations. Students will be required to demonstrate proficiency in scientific and mathematical problem solving, written and oral communication skills, and demonstrate skill in executing laboratory experiments.

*Denotes semester

0409H**Honors Chemistry I (Pre AP®)****10****1.0**

Prerequisite: Biology I and Algebra I Minimum grade of “B” & teacher recommendation

Honors Chemistry I (Pre AP®) course that is designed for students that are planning to take AP® Chemistry junior or senior year. Honors Chemistry I covers many of the same topics as Chemistry I, but in greater depth. Special emphasis is placed on a rigorous mathematical examination of chemical principles. The first semester focuses on basic concepts of chemistry including the qualitative nature of chemical reactions, atomic structure, chemical bonding, and molecular geometry. The second semester opens with stoichiometry and the quantitative nature of chemical equations. These concepts are then applied to various topics such as the kinetic theory of gases, condensed phases of matter, reaction kinetics, equilibrium, acid- base chemistry, and oxidation- reduction chemistry. Laboratory activities and exams will model the AP® Chemistry format.

0410**Chemistry II****11, 12****1.0**

Prerequisite: Algebra I and Biology I (minimum grade of “C”)

This course explores matter and energy, the structure of the atom, chemical formulas and equations, the gas laws, the periodic table and electron configurations. Students will be required to demonstrate proficiency in scientific and mathematical problem solving, written and oral communication skills, and demonstrate skill in executing laboratory experiments

0426**Applied Physics I****11, 12****1.0**

Prerequisite: Applied Biology and Applied Chemistry

Applied Physics students will use laboratory experiments and hands- on activities to master conceptual physics content. Topics covered will include forces, motion, momentum, astronomy, and natural resources. Applied Physics will meet the basic requirements of the state physics curriculum. Focus will be on modern day application and less on mathematical content.

0411**Physics I****10*, 11, 12****1.0**

Prerequisite: Biology I and Geometry with a grade of “C” or better.

***Available to 10th graders with instructor approval.**

Physics I develops strong analytic reasoning and problem solving abilities by applying a mathematical approach with a conceptual analysis to physical phenomena via textbook, laboratory, and internet activities. The areas of one and two dimensional motion, vectors, forces, gravity, momentum, work energy, waves, and sound will be covered. This course is appropriate for students planning to attend college.

0419**AP® Physics I****11, 12****1.0**

Prerequisite: Algebra II (with a B or better) and Chemistry I (with a B or better)

AP® Physics I prepares the student to take the AP® Physics I (algebra- based) test and is equivalent to an algebra-based college physics course. This course is appropriate for students planning to pursue any professional or technical degree in college that requires physics or for any student seeking a stronger preparation for the rigors of college. Students will be urged, but not required, to take the AP® Physics I exam in May, which could result in earning college credit hours. General areas included in this AP® Physics I course are kinematics, Newton’s Laws of Motion, gravitation, circular motion, work, energy, linear momentum, torque, rotational motion, simple harmonic motion, waves, sound, electrostatics, and simple electric circuits. Learning is further enhanced through laboratory experience conducting experiments and relevant demonstrations representing the above topics. The extensive amount of material covered will require additional student work out of class.

***Denotes semester**

0427**AP® Physics II****12****1.0**

Prerequisite: Algebra II (with a B or better) and Physics or AP® Physics I (with a B or better, or teacher recommendation)

AP® Physics II prepares the student to take the AP® Physics II (algebra- based) test and is equivalent to an algebra-based college physics course. This course is appropriate for students planning to pursue any professional or technical degree in college that requires physics or for any student seeking a stronger preparation for the rigors of college. Students will be expected to take the AP® Physics II exam in May, which could result in earning college credit hours. General areas included in this AP® Physics II are thermodynamics, fluid statics, fluid dynamics, electrostatics, DC and RC circuits, magnetism, electromagnetic induction, geometric, physical optics, quantum physics, atomic, and nuclear physics. Topics are covered with a strong emphasis on mathematical problem solving of problems from previous AP® Physics II tests. Learning is further enhanced through laboratory experience conducting experiments and relevant demonstrations representing the above topics. The extensive amount of material covered will require additional student work out of class.

0422**AP® Biology****11, 12****1.0**

Prerequisites: Biology I and Chemistry I (minimum grade of “C”).

AP® Biology is a rigorous course designed to be the equivalent of an introductory college-level biology class. It covers an extensive amount of material and draws heavily on information learned during Biology I and Chemistry I. The range and depth of topics covered, the type of laboratory work done by students, and the time and effort required by students will be pushed well beyond that required in previous classes. By structuring the course around the four big ideas, enduring understandings, and science practices outlined by the AP® College Board, students will develop an appreciation for the study of life and help them identify and understand unifying principles within a diversified biological world. What we know today about biology is a result of inquiry. Science is a way of knowing. Therefore, the process of inquiry in science and developing critical thinking skills is the most important part of this course. At the end of the course, students will have an awareness of the integration of other sciences in the study of biology, understand how the species to which we belong is similar to, yet different from, other species, and be knowledgeable and responsible citizens in understanding biological issues that could potentially impact their lives.

0425**AP® Chemistry****11, 12****1.0**

Prerequisites: Chemistry I and two years of Algebra (minimum grade of “A”)

AP® Chemistry is designed to provide a solid first-year college chemistry experience, both conceptually and in the laboratory. The laboratory experiments are inquiry-based and serve to supplement learning in the lecture portion of the course while following the six science practices for AP® Chemistry. The six big ideas in lecture and laboratory activity that prepare students for the AP® exam are: atoms the fundamental building blocks of matter, chemical reactions and trends of the periodic table, chemical and physical properties of matter and the forces between them, chemical bonding, thermodynamics and changes in matter, and bonding and intermolecular attraction. Problem-solving skills, both on paper and in the laboratory, are emphasized.

PLTW Biomed I, II, III, and IV
(see PLTW section – page 78)

9, 10, 11, 12**1.0**

See descriptions and course numbers in the Four Rivers Career Center (FRCC) course book.

***Denotes semester**



Industrial Arts/Industrial Technology

Course Title	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement								Application/Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective			
Design and Construction	■		◆	◆	◆	◆						•						
Modern Manufacturing Introduction to Woodworking	■		◆	◆								•						
Modern Manufacturing Introduction to Metalworking	■		◆	◆								•						
Modern Manufacturing Woodworking		■		◆	◆	◆						•						
Modern Manufacturing Advanced Woodworking		■			◆	◆	✓					•						
Modern Manufacturing Metalworking		■		◆	◆	◆						•						
Modern Manufacturing Advanced Metalworking		■			◆	◆	✓					•						

*Denotes semester

Industrial Arts/Technology Department

Course Descriptions

0501

Modern Manufacturing Intro to Woodworking*

9, 10

0.5

This course is a beginning or exploratory course in woodworking. This course provides instruction and information concerning tools, machines, and materials that are basic to the broad area of woodworking. The importance of careful planning and good design are emphasized. Safe work habits and practices in using both hand tools and power machines are stressed by concise directions in operational procedures and through testing. Activities include planning and building a wood project.

0511

Modern Manufacturing Introduction to Metalworking*

9, 10

0.5

This course is designed to provide an introductory experience in metalworking through the use of tools, machines, and materials that are basic to metalworking. Hand tool operations are stressed. The course includes informational topics, general career information, planning and designing, safety, bench metal, sheet metal, forging, welding, and foundry. Activities will include planning and building a metal project.

0505

Modern Manufacturing Woodworking

10, 11, 12

1.0

The skills and techniques practiced by the cabinet maker, furniture maker, finish carpenter, mill **worker, or serious** hobbyist will be taught in this course. The course will provide complete coverage of modern processes using both hand and power tools and machines. The importance of safe work habits and practices is stressed through demonstrating and testing. The CNC (Computer Numerical Control) router will allow students to construct projects using technology which is comparable to that used by industry.

0506

Modern Manufacturing Advanced Woodworking

11, 12

1.0

An in-depth study of the woodworking industry is taught in this class. Shop activities include laminating, bending, and advanced machine techniques. Advanced woodworking provides the student with the opportunity to study and produce well-designed furniture.

0507

Modern Manufacturing Metalworking

10, 11, 12

1.0

An introduction to the tools, machines, materials, and processes used in the metalworking industry is studied in this class. This is a project and hands-on oriented class where students will develop a good foundation in skills such as welding and machine operations. Students can expect a balance between lecture, demonstration, and shop time.

0508

Modern Manufacturing Advanced Metalworking

11, 12

1.0

This is a class where students will build upon their existing metalworking skills. The class will concentrate on advanced welding and machine shop skills with additional emphasis on metallurgy and modern industrial metalworking processes. Students will be expected to build a project that will challenge them and reinforce the information that is being taught.

***Denotes semester**

**Mechanical Drafting
(see PLTW Engineering 09333 under
PLTW)**

9, 10, 11, 12

Mechanical drafting includes an in-depth study of technical drawing for having an interest in the field of engineering and drafting. Experiences include an advanced study of working drawings, auxiliaries, sections, threads, and CAD. Activities also include the development of computer generated solid models, assembly drawings, and technical illustrations.

Students interested in this course should enroll in PLTW introduction to Engineering/Design as it teaches similar programs and concepts.

**PLTW Engineering I, II, IIIa, IIIb,
and IV
(see FRCC section – page 78)**

9, 10, 11, 12

1.0

See descriptions and course numbers in the Four Rivers Career Center (FRCC) section.

**05151—1st Semester
05152—2nd Semester
Design and Construction***

9, 10, 11, 12

0.5

Students in this course will participate in designing set pieces and construct their final project. Students will use a combination of artistic creativity, drafting, and construction to complete assignments. Students will work collaboratively with the instructor and each other. Students may take this course either semester or they may take the course all year long. Please use the course number above to indicate which semester you would prefer to take the course or enter both course numbers if you wish to take the course for the entire school year.

***Denotes semester**



Family And Consumer Science

Course Title	0.5 Credit	3.0 Credits	9	10	11	12	Prerequisite(s)	Graduation Requirement								Application/Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective			
Food & Nutrition	■		◆	◆	◆	◆						•						
Cultural Foods	■		◆	◆	◆	◆						•						
Child Development I	■		◆	◆	◆	◆						•						
Child Development II	■			◆	◆	◆						•						
Housing Decisions & Interior Design	■			◆	◆	◆						•						
Culinary Arts I (3.0 credits)		■			◆	◆					•	•						
Culinary Arts II (3.0 credits)		■				◆	✓				•	•				•		

*Denotes semester

0553 Child Development I*

9, 10, 11, 12

0.5

In this class students will learn how to make a difference in children's lives and how to study and observe them. Students will also learn many of the challenges of parenting and some of the skill necessary to build strong families. Units will cover issues related to conception, pregnancy and childbirth. Students will learn the physical, emotional, social and intellectual development of infants in their first year of life. Students wanting to take this course a second time should get instructor approval.

Both Child Development I and II are great exploratory classes for a student considering taking Health Occupations (3 hour block for 12 grade), Teaching Careers (3 hour block for 12 grade), or going into any Health or Human Services career. However, none of them have a prerequisite for the other.

0563 Cultural Foods*

9, 10, 11, 12

0.5

Students will explore the world of food through studying a country's geographical region, cultural influences, religious influences, and typical ingredients used in specific recipes. They will understand the historical influences of each nation's food choices and be able to prepare dishes from those regions. In addition to studying flavors of other parts of the world, students will also learn about cultural and regional influences within The United States. The course will be enhanced through the presence of guest speakers who are familiar with certain cultures and visits to cultural / ethnic restaurants and grocery stores. To provide a high quality experience, there will be a \$50 fee for the class. Students wanting to take this course a second time should get instructor approval.

0562 Child Development II*

10, 11, 12

0.5

Students DO NOT need to take Child Development I in order to take Child Development II

Students will learn about the physical, emotional, social and intellectual growth and development of children ages 1-6 years. Students will see how heredity plays a key role in the child's development, the positive and negative emotional stages, the fact that intelligence is determined by both heredity and environment and that children use different methods to learn and understand concepts. Changes in body shape, the development of gross and fine motor skills and the child's increased desire for independence will also be covered. Students will also gain knowledge of different theories of child psychologists, intelligence tests, and the development of language skills. **Please note: Students will have to, with parent permission, provide their own transportation to and from a pre-school/elementary site two days a week where they will be working directly with children.** Students wanting to take this course a second time should get instructor approval.

Both Child Development I and II are great exploratory classes for a student considering taking Health Occupations (3 hour block for 12 grade), Teaching Careers (3 hour block for 12 grade), or going into any Health or Human Services career. However, none of them have a prerequisite for the other.

0554 Housing Decisions and Interior Design*

10, 11, 12

0.5

This is an instructional program that prepares individuals to understand the physical, psychological, and social influences pertaining to the complex housing decisions required for a desirable living environment. This class includes instruction in the human and environmental factors influencing the form and use of housing, the varied types housing, costs, exterior and interior designs, home furnishings and equipment, and the selection, use, and care of available resources for achieving improved living space to meet individual and family needs.

0551 Food and Nutrition*

9, 10, 11, 12

0.5

This class prepares individuals to understand the principles of nutrition; the relationship of nutrition to health and wellness; the selection, preparation, and care of food; meal management to meet individual and family food needs and patterns of living; food economics and ecology; optimal use of the food dollar; understanding and promoting nutritional knowledge; and the application of math. . To provide a high quality experience, there will be a \$50 fee for the class. Students wanting to take this course a second time should get instructor approval.

0565
Culinary Arts I

11, 12

3.0

[Year long – 3 hour block \(3 credits\)](#)

This course is designed for students interested in going into the restaurant industry. Whether you are interested in becoming a chef, manager or owner, this introductory restaurant management class is for you. In the first year, students will gain an extensive knowledge of food safety and sanitation and will earn their ServSafe certification. Students will begin building their knowledge of what it means to be a professional in the industry, equipment identification, and basic cooking skills influenced by the French, management essentials and career exploration. Throughout the first year, students will participate in many catering opportunities and hands on training of the back-of-the-house and front-of-the-house positions. Students who successfully complete this course may be eligible for 1.0 credit of English IV in addition to 3.0 practical art/elective credits.

Regarding English language instruction, this course will cultivate the critical thinking, reading, writing, and oral skills required for students to pursue a career in human services. Students will practice reading for information, analyzing nonfiction narrative, evaluating sources through career research, and a variety of writing assignments including research-based, argument, and technical writing. Instruction is based on lecture, small group activities, graded discussion, online assignments, and project-based learning.

0566
Culinary Arts II

11, 12

3.0

[Year long – 3 hour block \(3 credits\)](#)

[Prerequisite: Culinary Arts I](#)

Students will continue their education in the Culinary/Restaurant world. Level II students will dive a little deeper into meal planning, purchasing, baking and plating. Those wishing to earn the National Restaurant Association Certificate of Achievement will complete both Culinary I and II in addition to working 400 hours over the course of the two years in the restaurant industry. Students may count “on campus” catering toward their hours and will serve as mentors to level I students. Level II students have the opportunity to earn scholarships through ProStart competitions and the WHS FACS department.

***Denotes semester**



Business

Course Title	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisites	Graduation Requirement								Application/Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective			
Personal Finance	■			◆	◆	◆								•				*
Computer Applications	■		◆	◆	◆	◆						•						
Digital Design I	■		◆	◆	◆	◆	↗					•						
Multimedia	■		◆	◆	◆	◆	✓					•						
Web & Mobile Application Design	■		◆	◆	◆	◆	↗					•						
Accounting I		■		◆	◆	◆						•						
Accounting II		■			◆	◆	✓					•					*	
Business and Law	■			◆	◆	◆						•						
Business Administration & Management	■			◆	◆	◆						•						
Business Essentials	■		◆	◆								•						
Marketing I		■		◆	◆	◆						•					*	
Marketing II		■			◆	◆	✓					•					*	
CAPS: Global Business & Entrepreneurship					◆	◆					•	•				•	*	

*Denotes semester

Business Department

Course Descriptions

0652

Computer Applications*

9, 10, 11, 12

0.5

Prerequisite: None

This class is recommended for all high school students as they prepare for the working world of the 21st century. Students will gain skills in keyboarding, file management, and ten-key entry. Speed and accuracy will be incorporated in learning to create and edit personal and business letters, reports, simple tabulation, and centering problems. The students will learn the following skills: a word processing application, a spreadsheet program, and a database program, use of the Internet in classroom assignments and simulations, and basic presentation creations using PowerPoint. Students will use online collaboration tools and Web 2.0 tools to complete assignments.

0672

Digital Design*

9, 10, 11, 12

0.5

Not offered for the 2024-2025 school year.

Prerequisite: Computer Applications

Digital Design is the process of combining text and graphics using a computer to create attractive digital and print media. This class is designed to provide the skills and knowledge necessary for students to use page layout software, effective design principles, and procedures to produce professional looking publications. Students develop proficiency in using industry standard graphic arts/desktop publishing software to create a variety of business publications such as flyers, brochures, newsletters, advertisements, t-shirt designs, etc. Current software used includes Adobe Illustrator, Photoshop, and InDesign.

0671

Multimedia*

9, 10, 11, 12

0.5

Prerequisite: Computer Applications

Multimedia is the integration of pictures, video, sound, and text to express emotions, communicate thoughts, and demonstrate creativity. The demand for multimedia knowledge and the ability graphics, audio, video, and electronic presentation skills. Current software used includes Adobe Dreamweaver, Fireworks, Flash, and Premiere.

0670

Web and Mobile Application Design*

9, 10, 11, 12

0.5

Not offered for the 2024-2025 school year.

Prerequisite: Computer Applications I with a "C" or better

This course will offer coverage of Web Site and Mobile Application development. Students will focus on design, creation and maintenance of web pages and mobile applications. Students will learn hands-on mobile development environments, different mobile platforms, operating systems, and the constraints and challenges of mobile application development. Students will publish pages with HTML, CSS, Dreamweaver and additional web 2.0 application tools will be explored

0676

Business Essentials*

9, 10

0.5

Prerequisite: None

This course is designed to introduce students to how business works in today's society and to provide a foundation for other business courses. Content includes business functions such as accounting, management, marketing, and money management, banking systems and services, government's role in business, and technology in the business world.

0663

Personal Finance*

10, 11, 12

0.5

This course is designed to help students understand personal finance concepts necessary for their participation in a capitalist system as wage earners, business owners, producers and investors. Basic concepts like income, money management, spending and credit and saving and investing are emphasized. Students will improve computational skills and apply them to business situations. Areas of study include mathematical problems dealing with interest, percentages, notes, installment buying, insurance, depreciation, markup and markdown, payroll, and taxes.

**This course may be taken online. See Guidance Office for more details.

***Denotes semester**

0658

~~Business Administration & Management*~~

10, 11, 12

0.5

Not offered for the 2024-2025 school year.

Prerequisite: None

This course prepares students for management and administrative occupations. Basic business concepts including economics, communication skills, interpersonal skills, marketing, finance, human resources and ethics are taught throughout the course. Students will learn and apply key management skills such as leading, planning, organizing, staffing and controlling. Students will create projects utilizing writing, publishing, spreadsheet and presentation applications. Recommended for students interested in any profession as most professional occupations require management skills

0657

~~Business Law*~~

10, 11, 12

0.5

Not offered for the 2024-2025 school year.

Prerequisite: None

This class is designed to make the student aware of the legal aspects of being a consumer in our society through the study of contracts, insurance, torts, crimes, bailment's, and employee benefits. The students should be able to determine their legal rights and obligations in everyday business agreements.

0655

Accounting I

10, 11, 12

1.0

Prerequisite: None

Accounting is planning, keeping, analyzing, and interpreting financial records. Double entry accounting will be used as the basis in learning the accounting cycle from journalizing business transactions to preparing financial statements. The students then apply accounting theories to business situations through the use of business situations through the use of business simulations. The course is recommended for any student who will be entering the world of business. It will be especially helpful to the people who may someday want to run a business and to all students who may want to major in some area of business or computers in college. Students who will be majoring in some field of business in college are encouraged to take this course during their junior year and take Accounting II their senior year.

0656

Accounting II

11, 12

1.0

Prerequisite: Accounting I with a "B" or better

Accounting II applies the basic principles learned in Accounting I through the study of departmentalized, computer, corporate, management, and cost accounting. Business simulations will be completed using manual accounting. This course should prepare the student for an entry-level accounting clerk or a specialized accounting clerk position and/or a business administration, marketing, management, or accounting major in college

***Denotes semester**

0936 Marketing I

10, 11, 12

1.0

This is a two-semester course with emphasis on marketing principles. Topics covered include: economics, human relations, communication, selling, advertising, and promotion, physical distribution, pricing, and marketing operations. The primary objective of this course is to develop the knowledge and skills necessary for an entry-level position in the marketing of goods and services. Specific goals include: 1) provide students with the fundamental principles, skills, and attitudes common to all marketing occupations; 2) provide students with an understanding of the field of marketing and general economic understanding; 3) develop effective human relations and communications skills. Leadership skills will be developed through participation in in-class activities, leadership committees, and conferences; therefore, membership in DECA is a requirement of this course. There are three mandatory events that all DECA members must attend throughout the school year.

0937 Marketing II

11, 12

1.0

Prerequisite: Marketing I with a "C" or better

This course is designed to further the skills learned in the Marketing I course. New concepts, principles, and practices will be taught in this textbook and project driven course. Course work covered includes advanced study in consumer marketing, market research, public relations, new product development, and marketing careers. The primary objective of this course is to provide the students with the opportunity to utilize technology and explore the avenues of marketing. Leadership skills will continue to be developed through the membership and participation in the co-curricular organization, DECA; therefore, membership of DECA is a requirement of this course.

0650C3M (year 1)(3 hour course) 0651C3M (year 2)(3 hour course) CAPS: Global Business and Entrepreneurship

11, 12

3.0

Prerequisite: None

Embedded Credit: English 1 credit per year; 2 practical arts credit (2 Hour Course)

CAPS: Global Business and Entrepreneurship provides high school students a state of the art business center where you will learn the skillsets necessary to move an idea from light bulb to launch. You will live and learn the stages of ideation, business development, perfected pitch proposals and business implementation. CAPS works collaboratively with area business leaders to design and develop mutually beneficial learning experiences. Together, we will personalize your learning experience to prepare you for your future in high skilled and high demand careers (**15 College Credit Hours [3.0 hours per course]; Intro to Business, Fundamentals of Management, Small Business Management, Business Communications and Public Speaking**).

Regarding English language instruction, this course will cultivate the critical thinking, reading, writing, and oral skills required for students to pursue a career in human services. Students will practice reading for information, analyzing nonfiction narrative, evaluating sources through career research, and a variety of writing assignments including research-based, argument, and technical writing. Instruction is based on lecture, small group activities, graded discussion, online assignments, and project-based learning.

***Denotes semester**



Art

Course Title	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement							Application/Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective		
Introduction to Visual Design		■	◆	◆	◆	◆							•				
Art Appreciation (1st Semester)	■		◆	◆	◆	◆							•				*
Art Appreciation (2nd Semester)	■		◆	◆	◆	◆							•				*
Drawing	■			◆	◆	◆	✓						•				
Advanced Drawing	■			◆	◆	◆	✓						•				
Fine Crafts	■			◆	◆	◆	✓						•				
Painting I	■			◆	◆	◆	✓						•				
Ceramics	■			◆	◆	◆	✓						•				
Advanced Ceramics	■			◆	◆	◆	✓						•				
Sculpture	■			◆	◆	◆	✓						•				
Photography I	■			◆	◆	◆							•				
Photography II	■			◆	◆	◆	✓						•				
AP® Studio Art		■			◆	◆							•			*	*
Drama I	■		◆	◆	◆	◆							•				
Drama II	■		◆	◆	◆	◆							•				
Acting	■			◆	◆								•				

*Denotes semester

Art Department

Course Descriptions

0700

Introduction to Visual Design

9, 10, 11, 12

1.0

Note: No previous art experience is necessary. This course is required for all other art classes, except Art Appreciation, and Photography. (Activity card required).

This class is for the beginning student and will provide a basic foundation in the visual arts. The class is project-oriented. Students will learn about the process of creating art, the elements and principles of art, as well as drawing techniques. Students will explore a variety of processes such as ceramics, painting, pastels, printmaking, and others.

0716

Art Appreciation* (1st Semester)

9, 10, 11, 12

0.5

Note: Students may take one or both semesters. Students seeking a full credit in the fine arts should take both 1st and 2nd semester of Art Appreciation. Taking both semesters will meet the fine arts graduation requirement.

Explore galleries, museums, and sites around the world in this virtual study of the arts!

This class is designed in month-long units of instruction in areas such as art history, art techniques and media, and career exploration in the field of art and design.

Art Appreciation I and II do not need to be completed in sequential order. Each class covers different material.

0719

Art Appreciation* (2nd Semester)

9, 10, 11, 12

0.5

Note: Students may take one or both semesters. Students seeking a full credit in the fine arts should take both 1st and 2nd semester of Art Appreciation. Taking both semesters will meet the fine arts graduation requirement.

Explore galleries, museums, and sites around the world in this virtual study of the arts!

This class is designed in month-long units of instruction in areas such as art history, art techniques and media, and career exploration in the field of art and design.

Art Appreciation I and II do not need to be completed in sequential order. Each class covers different material.

0701 Drawing*

0702 Advanced Drawing*

10, 11, 12

0.5

Prerequisite: Intro to Visual Design

Drawing is a prerequisite for Advanced Drawing. It covers basic drawing techniques (Activity card required).

Advanced Drawing is designed for those students who have taken and have thorough knowledge of basic drawing techniques. Students will be using a variety of color mediums such as chalk and oil pastels, colored pencils and watercolor pencils. Assignments will allow students to explore their potential in the fields of drawing. (Activity card required).

0703

Fine Crafts*

10, 11, 12

0.5

Fine Crafts-This course is designed to give the student opportunity to explore the history and techniques of a variety of fine crafts. Projects could include, but are not limited to, stained glass, tie dye, batik, weaving, floor cloths, clay tiles and basketry. (Activity card required).

0704

Painting I*

10, 11, 12

0.5

Prerequisite: Intro to Visual Design

Painting-Students will learn the basic techniques and concepts of painting, color theory, brush control and composition. They will use various painting media such as tempera, acrylics and watercolors on a variety of surfaces. (Activity card required).

Fine Art credit can also be obtained by taking Drama I, Drama II, and Acting. See the Language Arts section for a course description.

***Denotes semester**

0705
Ceramics***10, 11, 12****0.5****Prerequisite: Intro to Visual Design**

Students will design, construct, decorate, and fire clay projects. Ceramic materials and their applications will be studied. Projects will include pinch pots, coil vases, slab boxes and throwing on the potter's wheel (activity card required).

0706**Advanced Ceramics*****10, 11, 12****0.5****Prerequisite: Intro to Visual Design**

This course is a continuation of Ceramics I. Students will continue to throw on the potter's wheels while designing and constructing hand built ceramic forms. Students will create both sculptural and functional designs while studying the origins of ceramics and the cultures that developed this art form. Prerequisite of Ceramics I with a C or better (activity card required).

0710**Photography I*****10, 11, 12****0.5****Prerequisite: None**

Explore the world of fine art photography!

In this course you'll learn to visualize photographs, learn the technical skills of operating a DSLR camera, and create powerful compositions.

\$40 course fee: photo box, matte board, and four 8X10's

0711**Photography II****10, 11, 12****0.5****Prerequisite: Photography I**

Explore the world of fine art photography!

In this course you'll learn about careers in visual design, create powerful compositions, and edit images in post-production.

\$40 course fee: photo box, matte board, and four 8X10's

0707**Sculpting*****10, 11, 12****0.5****Prerequisite: Intro to Visual Design**

Students will design and create three dimensional art forms using various sculptural techniques. Materials could include paper, clay, plaster, wood and glass. (Activity Card Required)

0713**AP® Studio Art****11, 12****1.0****Prerequisite: Teacher Permission**

This challenging college level course is designed for students who are seriously interested in the process of communicating through imagery. During this year long course students will develop a portfolio of work that exhibits an understanding of formal design concepts. This requires the student to show a fundamental competence and range of understanding in visual concerns. Students will be expected to create original works of art with a common theme, style, concentration and or motif throughout the portfolio. Candidates will prepare their portfolios through organized AP® instruction. Students will submit portfolios for evaluation at the end of the school year. There are several fees associated with this course. Lab fee of \$50.00 and an AP® Portfolio review fee of \$92.00. Students need permission from instructor to enroll. This course may be taken junior and senior year, earning 1.0 credit each year, and submitting one AP® Portfolio for AP® credit.

***Denotes semester**



Music

Course Title	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement							Application/Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective		
Mixed Chorus I (1st Semester)	■		◆	◆	◆	◆							•				
Mixed Chorus I (2nd Semester)	■		◆	◆	◆	◆							•				
Music Appreciation (A)	■		◆	◆	◆	◆							•				*
Music Appreciation (B)	■		◆	◆	◆	◆							•				*
Meistersingers		■		◆	◆	◆	✓						•			*	
Concert Choir		■			◆	◆	✓						•			*	
Music Theory		■		◆	◆	◆							•			*	
Orchestra		■	◆	◆	◆	◆	✓						•				
Marching Band (1st Semester)	■		◆	◆	◆	◆	✓						•				
Wind Ensemble (2nd Semester)	■		◆	◆	◆	◆	✓						•				
Concert Band (2nd Semester)	■		◆	◆	◆	◆	✓						•				
Jazz Ensemble		■		◆	◆	◆							•				

*Denotes semester

Music Department

Course Descriptions

0750

Mixed Chorus* (1st Semester)

9, 10, 11, 12

0.5

Prerequisite: Love of singing!!

This course will develop the voice and will require opportunities in public performance. The students will learn and develop music reading, music theory, and music history. Students may take both semesters of Mixed Choir. We will be singing every day!

0765

Music Appreciation* (2nd Semester B)

9, 10, 11, 12

0.5

This is a non-performance class that will consist of a fun-filled study by examining the history of different genres of music. Most of the work will be done in-class through group projects. While exploring music in a deep manner, students will study different elements of the music that are being listened to. The idea of new technology and how it has changed the music industry, not to mention the way we listen to and learn new music, is another area of concentration that is examined in this course. Music impacts our brain and body. Students will also look into how music can impact the environment around us. During the 2nd semester, the area of focus changes into studying music from the United States. We will look into what is going to happen in the future of music and what new composers and artists are writing. This course is worth .5 fine arts credit. This course is encouraged for students who want to learn about music in a setting that is upbeat and encourages critical thinking about all kinds of music!

0751

Mixed Chorus* (2nd Semester)

9, 10, 11, 12

0.5

This performance based course will develop the voice and will require opportunities in public performance. The students will learn and develop skills in reading music, and vocal technique. Members will be required to perform each semester in a public setting. Students may also take both semesters in Mixed Choir for 1 credit in Fine Arts.

0758J

Jazz Ensemble

10, 11, 12

1.0

Jazz Ensemble is an auditioned performance ensemble designed to study and perform various styles of American and Latin-American popular music including: swing, blues, shuffle, bossa nova, samba, funk, and more. Membership in one concert ensemble (Wind Symphony, Symphonic Band, or Concert Band) is required for saxophone, trumpet, trombone, drums, and percussion. Bass, guitar, and piano players are exempt from that requirement. This ensemble will participate in various jazz festivals, concerts, and the WHS Night of Jazz.

0764

Music Appreciation* (1st Semester A)

9, 10, 11, 12

0.5

This is a non-performance class that will consist of a fun-filled study by examining the history of different genres of music. Most of the work will be done in-class through group projects. While exploring music in a deep manner, students will study different elements of the music that are being listened to. The idea of new technology and how it has changed the music industry, not to mention the way we listen to and learn new music, is another area of concentration that is examined in this course. Music impacts our brain and body. Students will also look into how music can impact the environment around us. Students will also look into how music can impact the environment around us. During the 1st semester, the area of focus is music from around the world, focusing on how music began. Students will look into how music developed into what it is today. This course is worth .5 fine arts credit. This course is encouraged for students who want to learn about music in an upbeat setting by encouraging critical thinking and applying it to all kinds of music!

0756

Music Theory

11, 12

1.0

Prerequisite: Permission of Instructor

This course is for the serious musician. The student will learn advanced techniques in music scale construction, interval study, chord building, melody writing, and ear training. The student will study periods in music history, composers, styles, forms, and compositions of each historical music time period. Any student wishing to continue music after High School is encouraged to take this course, both instrumental and vocal.

***Denotes semester**

0754
Meistersingers

10, 11 12 **1.0**

Prerequisite: Recommended, one semester of Mixed Choir or another Choir class.

This course concentrates on the performance aspect of singing in a large group setting. The students are expected to perform, understand and sing in various styles of music. Music ranges from medium to difficult in performance ratings. Students will participate in a variety of concerts and public performances. Members of this choir have the opportunity to participate in Conference District, All-State Choirs, and the District Music Festival. Choir members are eligible to be selected to participate in the District and State Solo & Ensemble Festival. Members must maintain a minimum of a 2.5 GPA to remain eligible for the class. This choir will also perform in the Annual Madrigal Dinner in December.

0763
Concert Choir

11, 12 **1.0**

Prerequisite: Audition required, Recommended; one year in Mietersingers

This course concentrates on the performance aspect of singing in a small choir setting. The students are expected to perform, understand and sing in various styles of music. Members are expected to be independent singers and be involved outside of school hours. The students will participate in a variety of concerts and public performances. Members of this choir have the opportunity to participate in the Conference District, All-State Choirs, and the District Music Festival. Choir members are eligible to be selected to participate in the District and State Solo and Ensemble Festival. Members must also maintain a minimum of a 2.5 GPA to remain eligible for the class. This choir will also perform in the Annual Madrigal Dinner in December.

0758C
Concert Band* (2nd semester)

9, 10, 11, 12 **0.5**

Prerequisite: Previous experience on a band instrument. Transfer students must obtain permission from the instructor. Must also enroll in Marching Band.

This course provides the student with opportunities to develop their skills on their chosen band instrument, acquire more competence in music reading, become familiar with a variety of band compositions of contrasting styles and periods, and participate in public performances. The second semester is devoted to contest preparations and spring concerts. Members of the band may also participate in Jazz Band, solos, ensembles, All-Conference, All- District, and All-State Band.

0757
Orchestra

9, 10, 11, 12 **1.0**

Prerequisite: Middle School Orchestra and/or pass requirement tests

Students will have the opportunity to gain the knowledge and skills necessary to perform all styles of string orchestra and symphonic orchestra music. The orchestra and string orchestra will participate in public performances and in the District Music Festival. The members will also have the opportunity to be selected to participate in the District and State Solo-Ensemble Festival and the All-State Orchestra.

0758MA or 0758MB
Marching Band* (1st semester)

9, 10, 11, 12 **0.5**

Prerequisite: Previous experience on a band instrument. Transfer students must obtain permission from the instructor. Must also enroll in Concert Band.

Band instructors will advise students on whether to sign up for A or B. This is a co-curricular performance organization that is open to all students with experience on a band instrument. The purpose of this ensemble is to perform during home football games, several marching band competitions and a pep rally, parades and other community activities. This organization is one of the largest and most visible, which means the students get to participate in an exciting part of Washington High School. Attendance at all performance, rehearsals held before, during and after school are required and part of the student's grade.

0758W
Wind Ensemble* (2nd semester)

9, 10, 11, 12 **0.5**

Prerequisite: Previous experience on a band instrument. Transfer students must obtain permission from instructor.

9th graders interested in band should sign up for Marching Band - 1st semester (0758M) and Wind Ensemble – 2nd semester (0758W)

This course provides the students with opportunities to develop their skills on their chosen band instrument, acquire more competence in music reading, become familiar with a variety of band compositions of contrasting styles and periods, and participate in public performances. The first semester is devoted to marching, section auditions, Pep Band, and a winter concert. The second semester is devoted to contest preparations and spring concerts. Members of the band may also participate in Jazz Band, solos, ensembles, All-Conference, All-District, and All-State Band.

***Denotes semester**



Physical Education

Course Title	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement								Application/Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective			
9th Grade P.E. (Physical Activity & Lifetime Wellness)	■		◆											•				
9th Grade Health	■		◆											•				*
Team Sports	■			◆	◆	◆									•			
Weight Training	■		◆	◆	◆	◆									•			
Advanced Weight Training	■		◆	◆	◆	◆									•			
Aerobics/Body Sculpting	■			◆	◆	◆									•			
Lifetime Fitness	■				◆	◆									•			*
Sports Officiating (2 nd Semester)	■			◆	◆	◆									•			

NOTE: In addition to the required freshmen courses,
one additional semester of Physical Education is **REQUIRED**

*Denotes semester

Physical Education Course Descriptions

0822 9th Grade P.E. (Physical Activity & Lifetime Wellness)*

9 **0.5**

Students must participate and will be tested on all activities. 9th Grade students may either enroll in this course or take weight training

Students must participate and be tested on sport skills, rules, sportsmanship, and principles of physical fitness and conditioning Fitness Test will also be administered.

0821 9th Grade Health*

9 **0.5**

The health program includes the topics of wellness, mental and emotional health, stress, nutrition, weight management, substance use and abuse, human sexuality, sexually transmitted diseases, and A.I.D.S.

0808—1st Semester 0809—2nd Semester Team Sports*

10, 11, 12 **0.5**

Any of these classes can be taken in addition to, or independently of, the first semester class.

This class provides the rules, techniques, and intermediate skills in a variety of team activity and improved physical fitness. Students must participate and will be tested on all activities

0810—1st Semester 0811—2nd Semester Weight Training*

9, 10, 11, 12 **0.5**

A student may sign up for both classes and either semester separately.

This course is designed for students to be introduced to weight training at a basic level. Students will gain an understanding of proper weight training techniques by performing body weight, resistance bands, and light to moderate weight exercises. Low weight/high rep workouts will be performed as a total body emphasis. Agility and Core exercises will also be taught and performed. Students will be tested on increased performance on fitness tests, bench, squat, and hang clean.

0813A – 1st Semester 0813B– 2nd Semester Aerobics/Body Sculpting*

10, 11, 12 **0.5**

Students must have earned ½ physical education credit in a previous physical education class.

This is a workout class designed to increase muscular strength and endurance, cardiovascular endurance and flexibility. Activities to be covered include, but are not limited to: step aerobics, dance aerobics, moderate weight lifting, power walking, jogging/running, cardio kickboxing, circuit training, and yoga style activities.

Students will be expected to participate and be tested in fitness tests and complete written tests. Students will complete nutritional journals on a monthly basis.

0823—1st Semester 0824—2nd Semester Lifetime Fitness* (1st Semester)

11, 12 **0.5**

This course is designed to teach basic skills, techniques, and etiquette for recreational activities that can be utilized throughout an individual's life for leisure or improving wellness.

*Denotes semester

0812A—1st Semester
0812B—2nd Semester
Advanced Weight Training*

9, 10, 11, 12 **0.5**

Pre-Requisite – Approval from Department Chair or a Head Coach

This is an extremely high intense course designed to meet the needs of highly motivated students. Areas of physical fitness that will be stressed include flexibility, core strength, muscular strength and endurance, cardiovascular endurance and body composition. Students should expect to work extremely hard and see significant increases in strength, flexibility, and conditioning. This course will include stretching, lifting, speed mechanics, agility training, plyometric, and anaerobic and aerobic conditioning. Instructor approval required

0825 – 2nd Semester
Sports Officiating*

10, 11, 12 **0.5**

This class is focused on teaching students to become certified sports officials in volleyball, wrestling, basketball, softball, and soccer. Students will learn the rules and mechanics to become a competent official. Student will take practice tests and be eligible to take the MSHSAA officials test in their chosen sport. This course and its curriculum will be guided through project based learning.

***Denotes semester**



Special Education Services

Course Title	0.5 Credit	1.0 Credit	3.0 Credits	9	10	11	12	Prerequisite(s)	Graduation Requirement								Application/Recommendation	College/ Dual Credit/ AP®	Online Option
									Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Required	Elective			
Self-Contained Language Arts (SCLA)		■		◆	◆	◆	◆					•					*		
Academic Lab General		■		◆	◆	◆										•	*		
Executive Function Academic Lab		■		◆	◆	◆										•	*		
Language Based Academic		■		◆	◆	◆	◆									•	*		
Social Skills		■		◆	◆	◆	◆									•	*		
General Mathematics		■		◆	◆	◆	◆		•								*		
Work Experience CoOp*		■				◆	◆									•	*		
Foundational Math		■		◆	◆	◆	◆		•								*		

*A student who takes the Work Experience course is eligible to obtain 1, 2, or 3 units of credit.

*Denotes semester

Special Education Services

Course Descriptions

0834 Self-Contained Language Arts (SCLA)

9, 10, 11, 12 **1.0**

Prerequisite: None

Enrollment in this class will be determined by special education. This course is an intensive reading intervention course designed to meet the unique needs of the individual in both reading and written expression

0855 Work Experience CoOp

11, 12 **1.0**

Prerequisite: None

This course is designed to give students in special services an opportunity to earn credit while participating in work experience. Students will gain job skills while setting realistic vocational goals. Students must be clients of Vocational Rehabilitation before they can participate in this program. See the Special Services Work Experience Coordinator for information.

0836 Social Skills

9, 10, 11, 12 **1.0**

Prerequisite: None

Enrollment in this class will be determined by special education

0852 General Mathematics

9, 10, 11, 12 **1.0**

Prerequisite: None

Enrollment in this class will be determined by special education. Basic math concepts are taught in this course.

0852M Foundational Math

9, 10, 11, 12 **1.0**

Prerequisite: None

This course is designed to provide learners with foundational math skills related to independent living and to provide a foundation for other math courses. Content includes mathematical functions of using fractions; computing area, surface area and perimeter; identifying and extending patterns; using decimals, percentages and probability; computing averages, and understanding and application of calendar usage, telling time, elapsed time and schedules.

0830 Academic Lab General

9, 10, 11 **1.0**

Prerequisite: None

Enrollment in this class will be determined by special education and is skill based. This course is designed to provide academic support in the core areas of mathematics, English, science, and social studies.

0833 Language Based Academic Lab

9, 10, 11, 12 **1.0**

Prerequisite: None

Enrollment in this class will be determined by special education and is skill based. This course is designed to provide academic support while addressing language skills.

0839 Executive Function Academic Lab

9, 10, 11 **1.0**

Prerequisite: None

Enrollment in this class will be determined by special education and is skill based. This course is designed to provide academic support in the core areas by building the students' executive functioning skills.

***Denotes semester**



Other

Course Title	0.5 Credit	1.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement								Application/Recommendation	College/Dual Credit/AP®	Online Option
								Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Elective	Required			
A+ Tutoring (1st Semester)	■				◆	◆								•				
A+ Tutoring (2nd Semester)	■				◆	◆								•				
Leadership		■			◆	◆								•		*		

*Denotes semester

**0994—1st Semester
A+ Tutoring***

11, 12

0.5

The A+ Tutoring is a junior and senior level course designed as an intervention program for at-risk students in the elementary, middle school, and high school. Students must have signed up for the A+ program to enroll in this course. A+ Tutors will be a valuable asset in the classroom and play a vital role in personal growth and development of the students they work with. The A+ Tutors will gain valuable skills in communication, educational process, and student tutoring/mentoring. This course will count as ½ elective credit per hour and will allow for earning required A+ tutoring hours. Class is limited to 25.

**0995—2nd Semester
A+ Tutoring***

11, 12

0.5

The A+ Tutoring is a junior and senior level course designed as an intervention program for at-risk students in the elementary, middle school, and high school. Students must have signed up for the A+ program to enroll in this course. A+ Tutors will be a valuable asset in the classroom and play a vital role in personal growth and development of the students they work with. The A+ Tutors will gain valuable skills in communication, educational process, and student tutoring/mentoring. This course will count as ½ elective credit per hour and will allow for earning required A+ tutoring hours. Class is limited to 25.

**0714
Leadership**

11,12

1.0

The Leadership course offers students the opportunity to explore leadership theory, develop leadership skills and apply their knowledge and skills through hands-on projects. Some of the projects include: Children's Relay for Life, Senior Citizens Prom, Homecoming, Court warming, and others. Each student will apply their leadership skills through these events and acting as Chairperson of a committee. The class will cover such topics as goal setting, project planning, problem solving, decision-making, evaluation techniques, communication skills, group dynamics and leadership styles. Students are required to be members of WHS Student Council and participate in various school and community events.

***Denotes semester**



Naval Junior ROTC

Course Title	0.5 Credit	1.0 Credit	9	10		11	12	Prerequisite(s)	Graduation Requirement								Application/Recommendation	College/ Dual Credit/ AP®	Online Option
									Mathematics	Science	Social Studies	Language Arts	Practical Arts	Fine Art	Elective	Required			
Naval Science I		■	◆	◆		◆	◆						•						
Naval Science II		■		◆		◆	◆												
Naval Science III		■				◆	◆												
Naval Science IV		■					◆												
Marksmanship		■	◆	◆		◆	◆												

0096M JROTC Marksmanship

9, 10, 11, 12 1.0

Prerequisites: Must be enrolled in NJROTC and be a member of the Air Rifle team.

Marksmanship teaches the skills required to successfully fire an air rifle. It requires successfully passing a safety test and signing a Cadet Pledge. In addition to teaching gun safety and the proper techniques of marksmanship. The class requires adherence to orders, self-discipline, attention to detail, and outstanding attendance. Must be a member of the Air Rifle team and NJROTC to select this course.

*Denotes semester

Naval Junior ROTC

Course Descriptions

There is NO REQUIREMENT to join the military for students who choose to participate in NJROTC. Participation may result in Advanced Promotions for those who enlist.

0093 Naval Science I

9, 10, 11, 12 1.0

This course teaches the skills necessary to become a successful cadet. Primary focus is on self-discipline, self-respect, respect for others and teamwork. Learning activities include Close Order Drill, Uniform Regulations and Inspection, Orders to the Sentry, Chain of Command, Military Time, Phonetic Alphabet and Physical Fitness. Proper and timely wearing of the uniform and participation in physical fitness are vital elements of being successful in the NJROTC program. Males are required to shave daily and meet acceptable grooming standards during uniform inspections. Females must wear their hair in accordance with U.S. Navy grooming standards while in uniform. Students may be responsible for the cost of uniform. Students will be expected to follow all requirements of the program.

0094 Naval Science II

10, 11, 12 1.0

This course continues to build on the general introduction provided in Naval Science I. Introduction to leadership traits and principles of leadership begin in this course. A huge part of this curriculum is Maritime History from the American Revolution through our current conflicts. Cadets will begin to assume a few of the leadership opportunities available including, but not limited to, marching a squad and leading physical fitness. Some after-school participation is **expected** to assist in developing a sense of citizenship to our community. Proper and timely wearing of the uniform and participation in physical fitness are vital elements of being successful in the NJROTC program. Males are required to shave daily and meet acceptable grooming standards during uniform inspections. Females must wear their hair in accordance with U.S. Navy grooming standards while in uniform. Students may be responsible for the cost of uniform. Students will be expected to follow all requirements of the program.

0095 Naval Science III

11, 12 1.0

This course begins by broadening the cadets understanding in operative principles of military leadership, the concept and significance of teamwork, and the intrinsic value of good order and discipline in the accomplishment of objectives and tasks. Cadets gain a more in-depth knowledge of seamanship. Instruction includes National Security and Military Law. Cadets will be responsible for conducting uniform inspections, develop a plan or physical fitness and overseeing the implementation of the plan. Some after-school participation is **required** to display citizenship to members of our community. Proper and timely wearing of the uniform and participation in physical fitness are vital elements of being successful in the NJROTC program. Males are required to shave daily and meet acceptable grooming standards during uniform inspections. Females must wear their hair in accordance with U.S. Navy grooming standards while in uniform. Students may be responsible for the cost of uniform. Students will be expected to follow all requirements of the program.

0096 Naval Science IV

12 1.0

This course is primarily focused on practical leadership. The intent is to provide seniors an opportunity for understanding leadership and improving their leadership skills by putting them in positions of leadership. Classwork will primarily revolve around practical work with younger cadets. Seniors will be mentored in preparation for life after high school whether joining the job force, attending community college, attending a university, or entering the military. Assistance will be provided for those wishing to apply to ROTC scholarships or military academy appointments. Supervision and participation in after-school activities is **required**. Proper and timely wearing of the uniform and participation in physical fitness are vital elements of being successful in the NJROTC program. Males are required to shave daily and meet acceptable grooming standards during uniform inspections. Females must wear their hair in accordance with U.S. Navy grooming standards while in uniform. Students may be responsible for the cost of uniform. Students will be expected to follow all requirements of the program.

Agriculture Course Descriptions

0900 Ag Science I

9, 10, 11 **1.0**

Prerequisite: None (AFNR)

FFA CASE

Ag. Science I is an entry-level class for students entering the Agricultural Education program. This course is structured to enable overview of the field of agricultural science with a foundation in animal science so that students may continue through a sequence of courses through high school. This course will include leadership, personal development, FFA, SAE record keeping, and woodworking.

*See page 78 for science credit option and explanation.

0901 Ag Science II

10, 11, 12 **1.0**

Prerequisite: Ag. Science I

FFA CASE

Ag. Science II is designed to follow Ag. Science I. This course will expose students to the world of agriculture, plant science, and career options. Students will have experiences in various plant science concepts including the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. This course will include the agricultural mechanic topics of welding and oxy-acetylene cutting.

*See page 78 for science credit option and explanation.

0902 Greenhouse Operations & Mgmt

11, 12

For 2025-2026 school year only

FFA CASE (ASP)

Greenhouse Operations and Management is designed to train horticulturists to assume jobs and careers in the field of growing plants, shrubs, landscaping, nursery, floriculture, gardening, and greenhouse topics of plant propagation, watering and fertilizer, and pest management. Activities include a holiday poinsettia sale and a spring plant sale.

0905 Horticulture (Plant Science)

11, 12 **1.0**

For 2024-2025 school year only

FFA CASE (ASP)

A foundation course that teaches the form and function of plant systems. Students are immersed in inquiry-based exercises filled with activities, projects, and problems to teach them plant concepts through laboratory and practical experiences. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Discover the value of plant production and its impact on the individual, the local, and the global economy.

*See page 78 for science credit option and explanation.

0909 Ag CoOp

12 **1.0**

1 credit w/10 hours work, 2 credits w/20 hours work FFA

Ag. Coop is actual work experience related to agriculture. The work experience must align with one of the proficiency award areas designated by the National FFA. The structured experience allows the student to apply principles learned in Agriculture Education Courses. Student must hold senior status and enroll in at least one additional Agriculture Education Course. An application is required and must be approved and signed by the instructor prior to enrollment.

0910 Ag Construction I

11, 12 **1.0**

For 2025-2026 school year only

Prerequisites: Agriculture Science II or Welding Skills through Industrial Arts FFA

Ag. Construction I teaches safety and construction practices using metal. Students will learn basic construction practices using power tools, ARC and MIG welding, Oxyacetylene cutting, and equipment maintenance. Each student will construct one or more agricultural-related projects approved in advance by the instructor. (Total enrollment is limited to 16 students).

0977
Veterinary Science

11, 12 **1.0**

For 2025-2026 school year only **FFA CASE (ASA)**

Principles of Agricultural Science is an advanced course to expose students to agriculture, animal science, and related career options. This course studies animal nutrition, reproduction, genetics, and health. Throughout the course, students will consider the perceptions and preferences of individuals within local, regional, and world markets. Explore hands-on projects similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, and industry personnel, face in their respective careers

*See page below for science credit option and explanation.

0916
Animal Science

11, 12 **1.0**

For 2024-2025 school year only **FFA CASE (ASA)**

Principles of Agricultural Science is an advanced course to expose students to agriculture, animal science, and related career options. This course studies animal science concepts with hands-on activities, projects, and problems. Animal science studies animal anatomy, physiology, behavior, selection, and marketing. Students will consider the perceptions and preferences of individuals within local, regional, and world markets.

*See below for science credit option and explanation.

0917
Agricultural Mechanics

11, 12 **1.0**

For 2024-2025 school year

This course is designed for students with an interest in the many aspects of Agricultural Mechanics. The course will be divided evenly into 5 major units: 1) Woodworking, 2) Metalworking / Welding, 3) Small Gas Engines, 4) Project Construction / Individual Projects, and 5) Careers, Leadership and Personal Development, and SAE Record Keeping.

***Agricultural Science for Science Credit:**

With regard to students meeting the science graduation requirement, please be informed that if a student in the Agricultural Program through the Four Rivers Career Center completes (3) three of the courses listed below, they may count them toward (1) one of their science credit requirements. Only one science credit may be obtained in this manner. If you would like to take advantage of this option, please see your counselor for the proper paperwork and permission.

Courses include: Ag Science II, Horticulture,
Ag Science II, Greenhouse, Animal Sci, & Vet Science

Project Lead The Way (PLTW) Course Descriptions

09333

PLTW Engineering I – Introduction to Engineering/Design

9, 10, 11, 12

1.0

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software and an engineering notebook to document their work. This is the introductory course for Project Lead the Way engineering courses.

09335*

PLTW Engineering IIIa (Fall) – Computer Integrated Manufacturing

11, 12

1.5

This semester course is designed to expose students to the fundamentals of computerized manufacturing technology. The course is built around several key concepts: Computer Modeling — using a three dimensional, solid modeling software package with mass property analysis. CNC Equipment — understanding the machine tools and its operating and programming aspects. CAM Software — converting computer generated geometry into a program to drive CNC machine tools. Robotics — using a robot for materials handling and assembly operations. Flexible Manufacturing Systems — working in teams to design manufacturing work cells and table top factory simulations.

Regarding English language instruction, this course will cultivate the critical thinking, reading, writing, and oral skills required for students to pursue a career in human services. Students will practice reading for information, analyzing nonfiction narrative, evaluating sources through career research, and a variety of writing assignments including research-based, argument, and technical writing. Instruction is based on lecture, small group activities, graded discussion, online assignments, and project-based learning.

09334

PLTW Engineering II – Principles of Engineering

10, 11, 12

1.0

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

09336

**PLTW Engineering IIIb (Spring)
Civil Engineering and Architecture**

11, 12

1.5

Student learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.

Regarding English language instruction, this course will cultivate the critical thinking, reading, writing, and oral skills required for students to pursue a career in human services. Students will practice reading for information, analyzing nonfiction narrative, evaluating sources through career research, and a variety of writing assignments including research-based, argument, and technical writing. Instruction is based on lecture, small group activities, graded discussion, online assignments, and project-based learning.

09337*

**PLTW Engineering IV - Engineering
Design and Development (Spring)**

11, 12

1.5

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. Upon successful completion of this course and at least an 80% on the comprehensive assessment at the end of the course, students can earn 3 hours of college credit from many universities nationwide.

09337*

**PLTW Engineering IV - Engineering
Design and Development (Spring)**

11, 12

1.5

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. Upon successful completion of this course and at least an 80% on the comprehensive assessment at the end of the course, students can earn 3 hours of college credit from many universities nationwide.

09444
PLTW Biomed I –
Principles of Biomedical Science

9, 10, 11, 12

1.0

This introductory course in the PLTW Biomedical Science Program serves to provide foundational knowledge and skills in fields such as biology, anatomy, physiology, genetics, forensics, microbiology and epidemiology. Students will be engaged in applying this knowledge to real-world situations, cases and problems including investigating the death of a mysterious person, diagnosing and treating patients and responding to outbreaks of infection. This lab based, hands-on course offers students opportunities to show what they learn through activities, labs and projects.

09445
PLTW Biomed II-
Human Body Systems

10, 11, 12

1.0

Prerequisites: [Biology 1 with teacher recommendation and/or PLTW Biomed I-Principles of Biomedical Science](#)

This course is designed as the second course in the PLTW Biomedical Sciences pathway. Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. Students enrolled in PLTW courses will also need to be enrolled in a science course. PLTW courses do not count towards science credits needed for graduation.

094483
Health Science Academy
(PLTW Biomed III & IV)
***Medical Intervention (1.0)**
***Biomedical Innovation (1.0)**
English for Biomedical Science (1.0)

11, 12

3.0

[PLTW Principles of Biomedical Science](#) and [PLTW Human Body Systems](#) OR two of the following science courses: [Biology](#), [Chemistry](#), [Anatomy and Physiology](#), or other related sciences with a B- or higher
 Medical Interventions – (semester 1) Students follow the life of a Fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Biomedical Innovation – (semester 2) In the final course of the PLTW Biomedical Sequence, students build on the knowledge and skills Gained from previous courses to design innovative solutions for the Most pressing health challenges of the 21st century. Students address Topics ranging from public health and biomedical engineering to Clinical medicine and physiology. Students have the opportunity to Job shadow up to 30 hours with a health professional or in a research Facility.

The third component of this course includes 1.0 credit in Biomedical Science English. Students are not required to sign up For an additional English course if they wish to earn their credit By taking Biomedical Science English.

09551**PLTW Computer Science I-Computer Science Essentials (CSE)****9, 10, 11, 12****1.0**

Prerequisite: Students are currently enrolled in Regular Algebra I or higher.

This is a year-long course that acts as an entry point for student who are interested in Computer Science. Computer Science Essentials (CSE) will expose students to a diverse set of Computer Science concepts. Students will use visual, block-based program to begin, and transition into text-based programming languages such as Python®. Topics include mobile app development using MIT App Inventor, Robotics using VEX Programming, and text programming using Python®. Students will apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

09552**PLTW Computer Science II-Computer Science Principles (CSP) (AP®)****9, 10, 11, 12****1.0**

Prerequisite: Students are currently enrolled in Geometry or higher
Recommendation: Students have previously taken at least one computer science course.

***Recommended for students in 10th-12 grade.**

This is a year-long course for students with computer science experience. Students with no prior experience may register for this course at the discretion of the teacher. Students will use Python as a primary tool and incorporate multiple platforms and languages for computation. This course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP® CSP)

09553**PLTW Computer Science III-A (AP®)****11, 12****1.0**

Prerequisite: Students are currently enrolled in Geometry or higher

Recommendation: Students have previously taken at least one computer science course.

This is a yearlong course for students with computer science experience. In Computer Science A (CSA), students will develop skills by analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science A (AP CSA). This endorsement affirms that all components of PLTW CSA's offerings are aligned to the AP Curriculum Framework standards and the AP CSA assessment.

09554**PLTW Computer Science IV-Cybersecurity****11, 12****3.0**

Prerequisite: Students are currently enrolled in Algebra II, Students have previously taken at least

one computer science course and Information Technology I.

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior.

It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.



Certification(s): TestOut Security Pro, CompTIA Security+



	1.0 Credit	1.5 Credit	3.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement								Application/Recommendation	College/Dual Credit/AP®
									Mathematics Embedded (1/2 credit per yr)	Science	English IV (1 credit)	Language Arts Embedded (1/2 Credit per yr)	Practical Arts		Elective	Required		
PLTW I – Introduction to Engineering/Design	■			◆	◆	◆	◆						•		•			
PLTW II Principles of Engineering	■				◆	◆	◆						•		•			
PLTW III (Fall)-Computer Integrated Manufacturing (1.5 credits)			■			◆	◆					•	•		•			
PLTW IIIb (Spring)-Engineering Developing and Design (1.5 credits)																		
PLTW IV–Engineering Capstone			■				◆						•		•			
Project Lead the WAY (PLTW) Principles of Biomedical Science	■			◆	◆	◆	◆						•		•			
PLTW Biomed I – Principles of Biomedical Science			■	◆	◆	◆	◆						•		•			
PLTW Biomed II–Human Body Systems			■		◆	◆	◆	✓					•		•			
Health Science Academy (PLTW III/IV) *Medical Intervention *Biomedical Innovation			■			◆	◆	✓				•	•		•			*
CAPS: Health Occupations/PLTW Health Occupations Capstone			■			◆	◆			•	•		•		•		*	*
PLTW I-Computer Science Essentials	■			◆	◆	◆	◆	✓							•			
PLTW II - Computer Science Principles (AP®)	■			◆	◆	◆	◆	✓							•			
PLTW III-Computer Science A (AP®)	■					◆	◆	✓					•		•			*
PLTW IV-Computer Science-Cybersecurity			■			◆	◆	✓					•		•			*





Course Title

Course Title	1.0 Credit	3.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement							Application/Recommendation	College/Dual Credit/AP®		
								Mathematics Embedded (1/2 credit per yr)	Science	English IV (1 credit)	Language Arts Embedded (½ Credit per yr)	Practical Arts		Elective				Required
Agricultural Science I	■		◆	◆	◆								•		•			
Agricultural Science II	■			◆	◆	◆	✓						•		•			
Greenhouse Operations & Management	■				◆	◆							•		•			
Horticulture (Plant Science)	■				◆	◆							•		•			
Agricultural Coop	■					◆							•		•			
Agricultural Construction I	■				◆	◆	✓						•		•			
Veterinary Science	■				◆	◆							•		•			
Animal Science	■				◆	◆							•		•			
Agricultural Mechanics	■				◆	◆							•		•			
Auto Technology I		■			◆	◆		•				•	•		•		*	*
Auto Technology II		■				◆	✓	•				•	•		•		*	*
Building Construction I		■			◆	◆		•				•	•		•		*	*
Building Construction II		■				◆	✓	•				•	•		•		*	*
Welding Technology I		■			◆	◆		•				•	•		•		*	*
Welding Technology II		■				◆	✓	•				•	•		•		*	*
Collision Repair I		■			◆	◆		•				•	•		•		*	*
Collision Repair II		■				◆	✓	•				•	•		•		*	*
Machine Tool Technology I/II (year 1)		■			◆	◆		•				•	•		•		*	*
Machine Tool Technology III/IV (year 2)		■				◆	✓	•				•	•		•		*	*
Graphic Communications		■			◆	◆						•	•		•		*	
Graphic Communications II		■				◆	✓					•	•		•		*	
Information Technology I		■			◆	◆	✓					•	•		•		*	*
Information Technology II		■				◆	✓					•	•		•		*	*



Course Title	1.0 Credit	3.0 Credit	9	10	11	12	Prerequisite(s)	Graduation Requirement							Application/Recommendation	College/Dual Credit/AP®		
							Mathematics Embedded (1/2 credit per year)	Science	English IV (1 credit)	Language Arts Embedded (1/2 Credit per year)	Practical Arts		Elective	Required				
Marketing I	■			◆	◆								•		•			
Marketing II	■				◆	◆	✓						•		•		*	
CAPS: Global Business & Entrepreneurship (year 1)		■			◆	◆					•		•		•		*	*
CAPS: Global Business & Entrepreneurship (year 2)		■				◆							•		•		*	*
CAPS: Teaching Careers (year 1)		■			◆	◆				•			•		•		*	*
CAPS: Teaching Careers (year 2)		■				◆							•		•		*	*
Culinary Arts I		■			◆	◆				•			•		•			
Culinary Arts II		■				◆	✓						•		•			

Virtual (On-line) Courses - Credit Advancement

The School District of Washington offers on-line courses that can be taken during the academic school year and/or during summer school. The courses are offered through Edgenuity or are SDOW teacher created. All virtual courses are aligned to the SDOW curriculum and state standards. Students may choose to earn credit during the school day as one of the seven courses or as an after school option. Fees may be associated with after school options.

Virtual courses provide students with the opportunity to personalize their learning with the potential benefit of freeing up time in their schedule to take additional courses. The courses, if taken outside the school day, allow students to work at an alternative pace and location. Alternative pace is dictated by the virtual class chosen. Courses typically include a variety of technologies which may include, but are not limited to; discussion forums, assignments, quizzes, blogs, and virtual textbooks.

Virtual course credit for advancement are earned similarly to that of the traditional school course. Each semester completed earns the student .5 credits. A student may earn 1.0 credits during the academic school year and 2.0 credits during the summer term. On-line credit recovery will be available based on student need.

- **Enrollment in online courses requires administrative approval.**
- **Students MUST complete an application, if pursuing Virtual Student status.**
Applications are available on the SDOW website or from
joseph.dierks@sdowmo.org

***(Students are still required to take Constitution test and the Civics test at SDOW)**



Graduate Washington High School with an emphasized diploma!

WHAT IS DIPLOMA PLUS?

As students at Washington High School are afforded more opportunities to earn credits and experience outside of the traditional school year, a change to our diploma is needed to reflect those students who worked hard to go above and beyond the standard graduation requirements. Diploma Plus is the answer! There are several ways that students can earn a Diploma Plus or Diploma Plus with Distinction.

WHS DIPLOMA

Traditional Diploma. No changes have been made to the traditional WHS Graduation Requirements.

FOR MORE INFORMATION, CONTACT:

WHS Guidance Office
636-231-2170

Director of Choice Programs
Joseph.Dierks@sdownmo.org

DIPLOMA PLUS

Beginning with the Class of 2024

A traditional WHS diploma with an added Market Value Asset.

- **Early College Asset:** For students who want to leave WHS with college credit: Successful completion of ECC Early College Academy OR 3+ AP or Dual Credit classes with a "C" or better.
- **Client-Connected Project:** Students work with clients to produce a project. 24 Hours (4 with Client)
- **Internship:** Students work directly with an employer. 60 Hours (40 on site)
- **Apprenticeship:** Opportunities coordinated through FRCC and oversight determined by Dept. of Labor (paid)
- **Industry Recognized Credential:** Students leave WHS with an approved certification or credential from an FRCC program
- **Entrepreneurial Experience:** For students who wish to leave high school with an experience of running their own business

DIPLOMA PLUS DISTINCTION

Beginning with the class of 2027

- Meet the criteria for Diploma Plus
- 28 Credit requirement (vs traditional 24)
- 4 Language Arts, 4 Math, 3-4 Science or Social Studies, 1 Practical Art, 1 Physical Education, 1 Fine Arts, .5 Health, .5 Personal Finance, 2 World Languages, and 7 Electives
- 20 hours of community service
- Participation in one club, activity, or sport per year
- 95% attendance
- Enrolled full time for four years
- Enroll in four AP classes and take the associated National Exam **OR** enroll and graduate from Early College **OR** complete a Four Rivers Program

Washington High School Diploma Plus Program

This program allows students to graduate with a traditional WHS diploma and an added Market Value Asset. Assets are resume-worthy experiences that allow students to experience their workforce passions and interests while in high school. Assets can be earned in the following ways:

1. Early College Asset: For students who want to leave WHS with college credit. This would involve successful completion of the ECC Early College Academy OR 3+ AP or Dual Credit classes with a "C" or better.
2. Client-Connected Project: Students work with clients to produce a project. 24 Hours (4 with Client)
3. Internship: Students work directly with an employer and it is an unpaid experience. 60 Hours (40 on site)
4. Apprenticeship: This involves opportunities coordinated through FRCC and oversight is determined by the Department. of Labor (paid)
5. Industry Recognized Credential: Students leave WHS with an approved certification or credential from an FRCC program
6. Entrepreneurial Experience: For students who wish to leave high school with an experience of running their own business