

# **COURSE CATALOG**

## **2022-2023**

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**Dear Students & Parents,**

**Registration time provides a good opportunity to discuss a student's future goals. In order for a student to select those courses that are in their best interest, it is important for parents to be actively involved in the selection process.**

**Within the following pages, you will find the current graduation requirements for Powell High School, along with a recommended pre-college curriculum, Hathaway Scholarship information, and a description of courses currently offered at PHS. In addition to this handbook, students should be aware of the credits they have already earned and how many they need to meet graduation requirements.**

- In general, one credit is equal to the successful completion of a full school year of work in that subject. A course that is only a semester in length would be worth .5 credits.
- Courses may be added or dropped during the first week of each semester, through the Counseling Office.
- Students will be encouraged to maintain the rigor of their program.

**If you have any questions or concerns, please feel free to contact the Counseling Office at 307-764-6181.**

*Mr. Trevor Lee*

Counselor Students A-G

*Mrs. Erin Curtis*

Counselor Students H-M

*Mrs. Kara Miller*

Counselor Students N-Z

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***Wyoming Hathaway Scholarship Program (make college a Reality)***

*The State of Wyoming provides Hathaway Merit and Need-based scholarships to Wyoming students attending the University of Wyoming and Wyoming Community Colleges. Every student who meets the requirements can earn Hathaway Merit Scholarship. Contact your School Counselor for more information.*

Wondering about how to get the most out of high school and to prepare for your future?  
Read these tips to make sure you stay on track!

## 9<sup>TH</sup> GRADE CHECKLIST

- Know the requirements for graduation and develop a plan for your courses throughout high school.
  - Know the requirements of the Hathaway Scholarship Program.
  - Studying pays off! Your grades count toward your future choices. Whenever you are absent, make sure you stay on top of make-up work.
  - Begin developing good study habits you can stick with throughout high school.
  - Read for pleasure – and learn new vocabulary.
  - If you are struggling in a class, talk with your teacher or visit with the counselor.
  - Talk to your parents and counselor about your interests and goals. Find opportunities to meet people who are working in fields that interest you. Investigate job-shadowing opportunities.
  - Explore clubs and activities in and outside of school that will offer you the chance to develop your unique interests and abilities and your leadership skills. Consider volunteering in your community.
  - Begin a high school resume, keeping track of all your extracurricular activities and any awards or honors you receive. Save this on your one-drive.
  - Those who are old enough may consider getting a summer job. Others might take on volunteer work to gain experience.
  - All students need to end their freshman year with a minimum of 6 credits.
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## 10<sup>TH</sup> GRADE CHECKLIST

- Meet with your counselor to review your high school course plans.
  - Take challenging courses in high school.
  - Know the requirements of the Hathaway Scholarship Program.
  - Continue to develop good study skills!
  - Start exploring your college and career options. Explore online to create a list of colleges you may be interested in and request more information. Check out the counseling web page links.
  - See your counselor to do an interest inventory.
  - Determine some goals you would like to achieve during and after high school.
  - Participate in volunteer activities.
  - Continue building a high school resume, keeping track of all your extracurricular activities and any awards or honors you receive. Save this in your one-drive.
  - Apply to represent PHS at Sophomore leadership seminars and academic enrichment opportunities, such as HOBY and HSI.
  - Sign-up to take the PSAT Test in October to practice and be eligible for the National Merit Program (scholarship) during Junior year.
  - Attend the Career Exploration Day at NWC in April.
-

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## 11<sup>TH</sup> GRADE CHECKLIST

- Know the requirements of the Hathaway Scholarship Program. If you have not taken a foreign language, visit with your counselor right away.
- If you are considering the military, let your counselor know and meet with the representatives when they visit PHS. Also take the Armed Services Vocational Aptitude Battery (ASVAB) test.
- If you are interested in attending a military academy (ex. West Point, Air Force Academy) after high school, start learning about how to apply. The Academy application process is lengthy, so students must account for enough time to ensure they are academically competitive, medically and physically qualified and have an official nomination. The earlier an interested student begins the process the better; students can apply as early as spring of their junior year.
- If you are interested in participating in college level athletics after high school, start learning about the eligibility requirements through the NCAA at [www.eligibilitycenter.org](http://www.eligibilitycenter.org) and NAIA at [www.naia.org](http://www.naia.org) and register.
- Explore and visit several colleges. Meet with College Reps that come to PHS. Contact colleges to request information. Dates can be found on the counseling calendar.
- Sign up to take the PSAT test in October. Juniors who score well on the PSAT are considered for a National Merit Scholarship.
- Register early for SAT or ACT college entrance exams, especially if applying for early admission or to an out-of-state college. Many students choose to take these tests 2 or 3 times before submitting their college applications. All Juniors will take the ACT exam in the spring, at no cost.
- Meet with your counselor to review courses. Pay attention to graduation requirements and Hathaway Scholarship Success Curriculum requirements.
- Continue to participate in volunteer activities. Update academic resume on your one-drive.
- Continue building a high school resume, keeping track of all your extracurricular activities and any awards or honors you receive. You'll need this information for college applications as well as scholarships.

Wondering about how to get the most out of high school and to prepare for your future?  
Read these tips to make sure you stay on track!

## *SENIOR CALENDAR 2021-2022*

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### **September**

- Start your Common App if you have an interest in a college that requires it.
- Review your HS transcript with your counselor. Know your GPA and class rank. Pay attention to the Hathaway Scholarship requirements when you schedule your classes. Learn how to calculate GPA.
- Review and gather information about colleges of interest to you. Request free catalogs and admissions information. If you haven't already, visit college campuses you plan to apply to.
- Register for the ACT / SAT if you haven't taken it, or you want to take it again.
- Schedule a Senior interview with counselor to discuss your post-high school plans. Develop two plans.
- Become familiar with your school's college resources. Listen for school announcements about college or military rep visits. Watch for weekly information bulletins that come from the Counseling Office. Check with the Counseling Office for an ongoing list of scholarships available. Check your college website and other websites for scholarships.
- Create a two week "Scholarship Check" reminder on your phone.
- Work on a generic essay that can be used for college admissions or scholarships. Save it on your OneDrive. Make sure it is well written! Have others (English teachers) look it over for suggestions and editing purposes.
- Register online with fastweb.com and scholarships.com for scholarship opportunities.
- Attend special programs, such as **Senior/Parent Night on September 21<sup>st</sup> from 6:30 pm to 7:30 pm in the PHS Auditorium.**
- Attend **Planning Days at NWC on September 20<sup>th</sup> from 9:30 am to 10:15 am in the Cabre Gym.** Must preregister to be able to attend.
- Students & parents each need to register for a FAFSA ID at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). and use the FSA ID link on the home page. You will not need to apply for a new ID if you have one from an older child. (This ID will be needed to complete the FAFSA (Free Application for Federal Student Aid form after October 1<sup>st</sup>.)
- Sign up for the TRIO reminder App.
- Click here to download your own copy of the National Association for College Admission Counseling Guide to the College Admission Process: [gcap2018final.pdf \(nacacnet.org\)](http://gcap2018final.pdf(nacacnet.org))
- Ask your counselor for advice!

# SENIOR CALENDAR CONTINUED...

## October

- Attend special info programs, such as **FAFSA Drop in Help Night on October 5<sup>th</sup> from 4 pm to 6:30 pm in the PHS Library.**
- Submit your FAFSA, if you have not done so already.
- Update or create your academic resume and individual activity / work resume. These will be a helpful summary of your accomplishments for college and scholarship applications, and very helpful to give to those who write your letters of recommendations.
- Meet with college reps that come to your school. Attend college fairs. Continue to visit colleges.
- Begin asking teachers, counselors, employers, coaches for letters of recommendation. Give them a copy of your academic resume. This provides them with some additional information about who you are. Allow them time, checking back within a month. Provide them with a stamped and addressed envelope if the letter is to be sent directly to the college. Don't forget to send them thank you notes!
- Take the ACT and/or SAT exams, if needed.
- Check the Counseling Office & bulletin boards for scholarship opportunities & college/military rep visits.
- Have you done your Senior Interview yet?
- Ask your counselor for advice!

## November

- Make sure your FAFSA financial aid application is submitted to the colleges of your choice.
- Take SAT exam if it is required or suggested by the college you are interested in attending.
- ASVAB test – did you sign up? The ASVAB will be given on Wednesday, November 9<sup>th</sup>. A follow-up interpretation and Career interest presentation can help guide your post-secondary plans.
- Make sure you are very aware of application and financial aid deadlines for the schools you want to apply to. Check their websites and mark the dates on your calendar!
- Attend events such as Application/Admissions Day and UW Cowboy Kickoff in the PHS Library.
- Find out about upcoming campus visit days at colleges you may be interested in attending.
- Gather official transcripts to send with your college applications if you are interested in early admissions.
- Make an appointment with your counselor to sign up for NWC spring semester classes.
- Keep up your grades!
- Have you done your Senior Interview yet?
- Ask your counselor for advice!

# SENIOR CALENDAR CONTINUED...

## December

- Take ACT and/or SAT exams.
- Ask the Counseling Office to send your transcript and immunization record to all colleges once you have applied.
- Work on college admission applications. Goal is to have them finished and submitted before winter break.
- Continue applying for scholarships.
- Do well on your first semester finals!
- Ask your counselor for advice!

## January

- Attend special info programs such as **FAFSA Drop in Make-Up Night in January in the PHS Library**.
- When choosing classes, be sure to check with your counselor about college/career preparation and Hathaway Scholarship requirements.
- Submit transcripts with mid-year grades as needed to the colleges you have applied to.
- Pay attention to scholarship and college admission deadlines.
- Now is the time to up your scholarship check, change your “Scholarship Check” reminder to once a week.
- Plan to attend college campus visit days.
- Ask your counselor for advice!

## February

- Apply for more scholarships. Continue to check with your counselor for scholarship opportunities. Some individual college scholarship deadlines are in February, others in March. **KNOW YOUR DEADLINES.**
- If you are planning on taking college classes over the summer, check to see whether you need to take a placement test.
- Let your counselor know when you receive any scholarship awards.
- Ask your counselor for advice!



# SENIOR CALENDAR CONTINUED...

## March

- Watch for your Student Aid Report (SAR) through college portal account. This form will provide you with your EFC (Expected Family Contribution) and with information about your eligibility for federal grants (free \$). Compare the financial aid awards you receive from each school before deciding.
- Let your counselor know when you receive any scholarship awards.
- Keep up your grades!
- Ask your counselor for advice!

## April / May

- Make your decision about which college you will be attending and notify schools of your decision to accept or decline.
- Complete all additional college academic, financial, and housing paperwork.
- Be sure to accept school specific scholarships in your online college portals.
- Turn in Senior picture and Senior ad to Mr. Heny by April 22<sup>nd</sup>.
- Register for summer and/or fall classes, if this applies to you.
- Ask the Counseling Office to send your final High School transcript to the college you will be attending.
- Enjoy your remaining weeks in school and do well on your finals!
- Complete Senior Exit Survey sent to your school email.
- Attend the Senior Recognition Banquet. We need all scholarship notification by the end of April.
- Ask your counselor for advice!



# GRADUATION REQUIREMENTS

**A minimum of 24 credits must be earned in designated areas to graduate from PHS.**

<b>Required Courses</b>	<b>Credits</b>
<b>English</b>	<b>4</b>
<b>Science</b> To include: Physical Science and Biology	<b>3</b>
<b>Math</b>	<b>3</b>
<b>Social Studies</b> To include: World History, US History, Free Enterprise and Government	<b>3</b>
<b>Physical Education</b>	<b>1</b>
<b>Health</b>	<b>.5</b>
<b>Career Technical Education</b>	<b>1</b>
<b>Fine / Performing Arts</b>	<b>1</b>
<b>Electives</b>	<b>7.5</b>
<b>Total Credits</b>	<b>24</b>

## FINE / PERFORMING ARTS AND CTE COURSES

<b>Fine / Performing Arts</b>	<b>Career Technical Education</b>	
Art 1-5	Introduction to Agriculture	Human Development/Early Childhood Education
Vocational Art	Ag 2 Rangeland Management	Healthcare Occupations
PHS Singers	Ag 2Ag Mechanical Systems	Apparel and Textiles
Concert Choir	Advanced Ag Processes	Housing & Interior Design
Concert Band	Metals/Welding 1-4	Woods/Building Trades
Intro to Guitar	Project Fabrication Welding	
Jazz Band	NWC Practical Accounting	Computer Science/AP Computer Science
Computer Graphics*	Intro to Business/NWC Introduction to Business	Robotics/Unmanned Aircraft Systems
Marketing w/Media Yearbook*	Personal Finance	Web Development
Theatre	CAD (Computer Aided Drafting) SHOPBOT/CNC	Computer Graphics*
NWC Intro to Theatre	Foods	Marketing with Media/Yearbook*
NWC Beginning Acting	Culinary Arts/Sheridan College Culinary Arts	Journalism
NWC Acting II	Basic Baking/Advanced Baking	Advanced Media and Composition*

*\*these courses can be used to meet either requirement, but not both*

## VALEDICTORIAN/SALUTATORIAN SELECTION

Beginning with the class of 2012 and beyond, Powell High School has determined that only one student will be selected for valedictorian and only one student will be selected for salutatorian. Students who qualify for this honor will be selected based on the following criteria and in this order:

- 1. The student must take four years of English, Math, and Science courses.**
- 2. The student needs to take at least one upper level course in English, Math, and Science.**  
*The following are courses that meet this requirement:*

English	Math	Science
AP Language and Composition	Pre-Calculus/Algebra Trigonometry	Physics
AP Literature and Composition	Any Dual Enrollment Math	Chemistry/Honors Chemistry
Any Concurrent Enrollment English		Human Anatomy & Physiology
Any Dual Enrollment English		Any Dual Enrollment Science
		AP Computer Science

- 3. The student with the highest GPA. \* For graduates 2020 and beyond, the Hathaway Weighted GPA will be used.**
- 4. The student with the highest ACT score.**

## HATHAWAY WEIGHTED GPA POLICY

Beginning in the 2018-19 school year, all **AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above** that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056 and the requirements set forth by Wyoming Department of Education. Transcripts will reflect a Hathaway Weighted GPA for the 2018-19 and beyond. All other courses will be on the 4.0 GPA scale. Below is the mandated Hathaway Weighted GPA chart for your reference for these courses:

GRADE	POINT VALUE FOR A	POINT VALUE FOR A
A	4	5
B	3	4
C	2	3
D	1	2
F	0	0

# GENERAL COLLEGE PREPARATORY CURRICULUM

There is no single academic path all college bound students are expected to follow, but the strongest applicants take the most rigorous secondary school curricula available to them. It is strongly recommended that college-bound students follow this plan, and take English, Math, and Science during their senior year. Most schools recommend a four-year preparatory program that includes:

<b>4 years</b>	English, with extensive practice in writing
<b>4 years</b>	Math (including Algebra I, Algebra II, and Geometry)
<b>4 years</b>	Science (Biology, Chemistry, Physics, & an advanced course in one of these subjects)
<b>3 years</b>	Social Studies
<b>2 years</b>	Foreign Language
<b>3 years</b>	Cultural Context coursework (this could include Behavioral or Social Sciences, Visual or Performing Arts, Humanities, or Foreign Languages)

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*\*For the exact course requirements for admission to a college, be sure to check with the individual college, as admission requirements are different for different colleges and can vary from year to year.*

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## REQUIREMENTS FOR ASSURED ADMISSION TO UNIVERSITY OF WY

- **HS Graduate**
- **GPA of 3.0**
- **ACT composite score of 21**
- **4 years of English**
- **4 years of Math**
- **4 years of Science**
- **3 years Social Studies**
- **2 sequenced years of either foreign language, fine and performing arts or CTE**
- **plus 2 years of additional coursework chosen from fine and performing arts, social and behavioral studies, humanities, additional foreign language, or career-technical courses.**



# HATHAWAY SCHOLARSHIPS

*\*Conditions of Hathaway scholarships subject to change annually due to legislative decisions*

	<b><i>Provisional Opportunity</i></b>	<b>Opportunity</b>	<b>Performance</b>	<b>Honors</b>
Merit Award Amount	<b>\$840 / semester</b>	<b>\$840 / semester</b>	<b>\$1260 / semester</b>	<b>\$1680 / semester</b>
Minimum GPA*	<b>2.5</b>	<b>2.5</b>	<b>3.0</b>	<b>3.5</b>
Minimum ACT score	<b>17</b> <b>** (or 12 on WORKKEYS)</b>	<b>19</b>	<b>21</b>	<b>25</b>
Need Award	25% of annual unmet need  \$100/semester minimum award  \$750/semester maximum award	25% of annual unmet need  \$100/semester minimum award  \$750/semester maximum award	25% of annual unmet need  \$100/semester minimum award  \$750/semester maximum award	100% of annual unmet need  \$100 / semester minimum award  Total unmet need is maximum award
Length of Award	Equivalent of 4 full-time semesters at a WY Community College, with the option of 4 additional semesters	Equivalent of 8 full-time semesters; no more than 4 may be used at a WY Community College	Equivalent of 8 full-time semesters; no more than 4 may be used at a WY Community College	Equivalent of 8 full-time semesters; no more than 4 may be used at a WY Community College

\*There are no GPA requirements for home-schooled students or students who have gone the GED route.

\*\*Cumulative score of 12 points on applied math, reading for information & locating information on WorkKeys tests.

## ***How do you calculate Unmet Need?***

Yearly Cost of Attendance of WY college (\$8,000 - \$16,000)

- Annual EFC (Expected Family Contribution) determined by FAFSA
- Hathaway Merit Award
- Grants/Scholarships
- \$2,000 (Hathaway gap – student & family contribute this)

**= Annual Unmet Need**

<b>HONORS</b> GPA: 3.5     ACT: 25	<b>PERFORMANCE</b> GPA: 3.0     ACT: 21	<b>OPPORTUNITY</b> GPA: 2.5     ACT: 19	<b>PROVISIONAL OPPORTUNITY</b> GPA: 2.5     ACT: 17 <u>OR</u> WORKEYS: 12
<b>\$1,680</b> Max Award Amount Per Semester	<b>\$1,260</b> Max Award Amount Per Semester	<b>\$840</b> Max Award Amount Per Semester	<b>\$840</b> Max Award Amount Per Semester
May be used at a WY community college or at UW	May be used at a WY community college or at UW	May be used at a WY community college or at UW	4 full-time semesters. Students with a certificate/associate degree can extend for an additional 4 full-time semesters.
<b>Language Arts</b> 4 Years	<b>Language Arts</b> 4 Years	<b>Language Arts</b> 4 Years	<b>Language Arts</b> Current HS graduation requirements
<b>Math</b> 4 Years Algebra I, Algebra II, Geometry, and one "additional math" course	<b>Math</b> 4 Years Algebra I, Algebra II, Geometry, and one "additional math" course	<b>Math</b> 4 Years Algebra I, Algebra II, Geometry, and one "additional math" course	<b>Math</b> Current HS graduation requirements; at least 2 of these courses: Algebra I, Algebra II, Geometry
<b>Social Studies</b> 3 Years	<b>Social Studies</b> 3 Years	<b>Social Studies</b> 3 Years	<b>Social Studies</b> Current HS graduation requirements
<b>Science</b> 4 years (Grades 9-12 Only) One year may include an "additional science" course	<b>Science</b> 4 years (Grades 9-12 Only) One year may include an "additional science" course	<b>Science</b> 4 years (Grades 9-12 Only) One year may include an "additional science" course	<b>Science</b> Current HS graduation requirements
<b>Fine &amp; Performance Arts or Career Technical Education or Foreign Language</b>  4 years total  - 2 Years <b>Sequenced</b> Coursework in one area (FPA/CTE/FL)  - 2 <b>additional</b> years in one of the three areas (FPA/CTE/FL)	<b>Fine &amp; Performance Arts or Career Technical Education or Foreign Language</b>  4 years total  - 2 Years <b>Sequenced</b> Coursework in one area (FPA/CTE/FL)  - 2 <b>additional</b> years in one of the three areas (FPA/CTE/FL)	<b>Fine &amp; Performance Arts or Career Technical Education or Foreign Language</b>  2 years total  2 years of either fine and performing arts, career and technical education, or foreign language ( FL must be sequenced)	<b>Fine &amp; Performance Arts or Career Technical Education or Foreign Language</b>  2 years total  2 years of either fine and performing arts, career and technical education, or foreign language ( FL must be sequenced)

# FINE & PERFORMING ARTS

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway
Art 1	--	Fine & Performing Art	1.0	9-12	Yes
Art 2	Art 1 or Vocational Art	Fine & Performing Art	1.0	10-12	Yes
Art 3	Art 2	Fine & Performing Art	1.0	11-12	Yes
Art 4	Art 3	Fine & Performing Art	1.0	11-12	Yes
Art 5	Art 4	Fine & Performing Art	1.0	12	Yes
Vocational Art	--	Fine & Performing Art	1.0	9-12	Yes
PHS Singers	--	Fine & Performing Art	1.0	9-12	Yes
Concert Choir	Audition Required	Fine & Performing Art	1.0	10-12	Yes
Concert Band	--	Fine & Performing Art	1.0	9-12	Yes
Jazz Band	Concurrent Enrollment in Concert Band	Fine & Performing Art	.25	9-12	Yes
Introduction to Guitar	--	Fine & Performing Art	1.0	9-12	Yes
Theatre	--	Fine & Performing Art	.5	9-12	Yes
NWC Intro to Theatre (THEA 1000)	--	Fine & Performing Art	.5	11-12	Yes
NWC Beginning Acting (THEA 1100)	Intro to Theatre (THEA 1000)	Fine & Performing Art	.5	11-12	Yes
NWC Acting II (THEA 2100)	Beginning Acting (THEA 1100)	Fine & Performing Art	.5	11-12	Yes

## **ART 1**

**Grade 9-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Fine & Performing Arts***

Art 1 is an introductory art class to develop basic technical skills through the use of a variety of media (e.g. drawing, painting, and clay). Students will also be introduced to the elements and principles of design. This course is for all students who would like to learn to develop and expand their artistic talents. ***\$10 Project dues required.***

## **ART 2**

**Grade 10-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Fine & Performing Arts***

**PREREQUISITE: ART 1 OR VOCATIONAL ART OR PERMISSION FROM TEACHER**

Art 2 is for students who wish to expand basic skills by learning additional techniques and applying them to individual projects. Art 2 examines both two and three dimensional media and styles using life experiences, influence of other artists, and your own imagination. ***\$10 Project dues required.***

## **ART 3**

**Grade 11-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Fine & Performing Arts***

**PREREQUISITE: ART 2 OR PERMISSION FROM TEACHER**

Art 3 allows students to develop & refine skills, compile a portfolio of their work, and explore different media. Students will learn to demonstrate and articulate how historical and professional artists influence their own work, as well as other's work. ***\$10 Project dues required.***

## FINE & PERFORMING ARTS CONTINUED...

### **ART 4**

**Grade 11-12 Full Year**

**Credit: 1.0**

***Credit for Graduation: Fine & Performing Arts***

**PREREQUISITE: ART 3 OR PERMISSION FROM TEACHER**

Art 4 allows students to investigate new areas of concentration by generating original pieces of art work. Students will expand an ongoing portfolio, and learn to articulate interpretation of work done by self and others through research and written assignments. ***\$10 Project dues required.***

### **ART 5**

**Grade 12 Full Year**

**Credit: 1.0**

***Credit for Graduation: Fine & Performing Arts***

**PREREQUISITE: ART 4 OR PERMISSION FROM TEACHER**

Students in Art 5 will expand areas of concentration, and refine their portfolio to accurately represent a variety of their work. Students will also expand on their knowledge of art history, vocabulary, and skills. ***\$10 Project dues required.***

### **VOCATIONAL ART**

**Grade 9-12 Full Year**

**Credit: 1.0**

***Credit for Graduation: Fine & Performing Arts***

**\*CLASS MAY BE REPEATED FOR CREDIT\***

Vocational Art students will demonstrate an understanding and appreciation of how art impacts our daily life by creating individual projects (e.g. candle holders, functional pottery, and chess boards). Students will also investigate career opportunities in the field of art, and demonstrate an understanding of the applicability of art to business by creating individual projects (e.g. architectural models, cultural masks, taxidermy project). **Students will be required to buy some materials.**  
***\$10 Project dues required.***

### **PHS SINGERS**

**Grade 9-12 Full Year**

**Credit: 1.0**

***Credit for Graduation: Fine & Performing Arts***

PHS Singers is a co-educational choir. It is open to all who enjoy singing and are interested in developing their music reading and vocal production skills. Requirements include 4 major concerts a year and music festival. Music used will cover a broad range of good choral literature.

### **CONCERT CHOIR**

**Grade 10-12 Full Year**

**Credit: 1.0**

***Credit for Graduation: Fine & Performing Arts***

**\*AUDITION REQUIRED FOR ENROLLMENT\***

**\*CLASS MAY BE REPEATED FOR CREDIT\***

Concert Choir is a co-educational vocal group. It is composed of students who meet with the approval, by audition, of the instructor. This course stresses vocal production and performance of good choral literature. Requirements include 5 major concerts, music festival and graduation.

### **CONCERT BAND**

**Grade 9-12 Full Year**

**Credit: 1.0**

***Credit for Graduation: Fine & Performing Arts***

**\*CLASS MAY BE REPEATED FOR CREDIT\***

This course provides opportunities to perform in concert band, marching band, pep band, small ensembles, and solos. Students enrolled in concert band will be given the opportunity to study and improve skills during the regular school day in scheduled sectionals. Sectionals, activities, performances, and festivals are required. Concurrent enrollment in concert band is required of students who wish to play in Jazz band.



## FINE & PERFORMING ARTS CONTINUED...

### **JAZZ BAND** (THIS CLASS IS ONLY OFFERED 7:00 TO 7:45 A.M.)

**Grade 9-12 Full Year**

**Credit: .25**

**Credit for Graduation: Fine & Performing Arts**

**PREREQUISITE: CONCURRENT ENROLLMENT IN CONCERT BAND**

**\*CLASS MAY BE REPEATED FOR CREDIT\***

Students will be given the opportunity to improve skills in instrumental performance through the medium of jazz. Students will learn different jazz styles and basic improvisation. Performances are required. Jazz band is offered during zero hour. Enrollment in jazz band is by audition only and students must be concurrently enrolled in concert band.

### **INTRODUCTION TO GUITAR**

**Grade 9-12 Full Year**

**Credit: 1.0**

**Credit for Graduation: Fine & Performing Arts**

Group instruction in the fundamental principles of playing the guitar, accompaniment techniques, and music notation. For beginning guitar students. Students required to provide instrument, preferably an acoustic steel string or nylon string.

### **THEATRE**

**Grade 9-12 Semester Course**

**Credit: .5**

**Credit for Graduation: Fine & Performing Art**

**\*CLASS MAY BE REPEATED FOR CREDIT\***

This course emphasizes technical elements of theatre such as scenic, costume, makeup, and lighting design and construction. The course introduces acting elements such as effective use of voice and movement for the stage and character development methods. The course also teaches students to analyze various types of dramatic literature.

### **NWC INTRO TO THEATRE (THEA 1000)**

**Grade 11-12 Semester Course**

**Credit: .5 PHS credit and 3 Northwest College credit if enrolled in both semesters**

**Credit for Graduation: Fine & Performing Art**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Introduces various phases of the theatre in an effort to enhance appreciation of theatre as a performing art. Designed to give a general knowledge of theatre through the ages. *This is a Concurrent Enrollment college level course taught at PHS.*

*Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

### **NWC BEGINNING ACTING (THEA 1100)**

**Grade 11-12 Semester Course**

**Credit: .5 PHS credit and 3 Northwest College credits**

**Credit for Graduation: Fine & Performing Art**

**PREREQUISITE: INTRODUCTION TO THEATRE (THEA 1000)**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Students learn the basic practices of acting examining the fundamental principles of oral and physical interpretation. Also provides practical experience in a variety of theatrical activities. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

### **NWC ACTING II (THEA 2100)**

**Grade 11-12 Semester Course**

*Credit: .5 PHS credit and 3 Northwest College credits*

*Credit for Graduation: Fine & Performing Art*

***PREREQUISITE: BEGINNING ACTING (THEA 1100)***

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Students develop the actor's voice and body for characterization and character interaction through performance of scenes. Character and scene development through research, personal exploration/exercise, and performance are the key learning elements. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

# CAREER TECHNICAL EDUCATION

## AGRICULTURAL EDUCATION

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway
Introduction to Agriculture	--	CTE	1.0	9-12	Yes
Agriculture 2: Rangeland Management	--	CTE	.5	10-12	Yes
Agriculture 2: Agricultural Mechanical Systems	--	CTE	.5	10-12	Yes
Advanced Ag Processes	--	CTE	1.0	11-12	Yes
Metals/Welding 1	--	CTE	.5	9-12	Yes
Metals/Welding 2	Metals/Weld 1	CTE	.5	9-12	Yes
Metals/Welding 3: Advanced Structural Welding	Metals/Weld 2 or Instructor Permission	CTE	.5	10-12	Yes
Metals/Welding 3: Introduction to Metal Fabrication	Metals/Weld 2 or Instructor Permission	CTE	.5	10-12	Yes
Metals Welding 4	Either Semester of Metals/Weld 3 or Instructor Permission	CTE	1.0	11-12	Yes
Project Fabrication Welding	Either Semester of Metal/Weld 3 or Instructor Permission	CTE	1.0	11-12	Yes

### **INTRODUCTION TO AGRICULTURE**

**Grade 9-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education***

In this class students will be introduced to agricultural opportunities and the pathways of study in agriculture including FFA, Supervised Agriculture Experiences, agriculture science, natural resources, plants, animals, and agricultural power and technology systems. Students participating in the Introduction to Agriculture course experience hands-on activities, projects, and problems. Students enrolled in this course will automatically be enrolled as a member of the National FFA Organization. \$10 Project dues required.

### **AGRICULTURE 2: RANGELAND MANAGEMENT**

**Grade 10-12 Semester**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

Students will study several areas of rangeland management. Topics will include rangeland plant science, rangeland plant ID, soil sciences, rangeland animals, animal digestion, species interactions, range ecosystems, stocking rates, agriculture issues and Supervised Agriculture Experiences. Students enrolled in this class will be automatically enrolled as a member of the National FFA Organization. . \$10 Project dues required.

# AGRICULTURE EDUCATION CONTINUED...

## **AGRICULTURE 2: AGRICULTURAL MECHANICAL SYSTEMS**

**Grade 10-12 Semester**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

Students will look at areas of agriculture that pertain to mechanic systems. The systems we will overview include introduction to small gas engines, electricity, plumbing and sprinkler systems, fundamentals of concrete work, horticultural operations, and horticultural management. Students enrolled in this class will automatically be enrolled as a member of the National FFA Organization. \$10 Project dues required.

## **ADVANCED AG PROCESSES**

**Grade 11-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education***

This class is a comprehensive agriculture processes course. We will review all pathways of agriculture education with a main focus on animal science, agriculture systems, agribusiness systems, and personal skill development. Animal science will include an in-depth study of a specific species, animal health, animal genetics, animal anatomy, and animal products and processing. During agribusiness systems we will review agriculture economics, entrepreneurship, record keeping, marketing, and budgeting. Agriculture systems will include agriculture sciences, plant sciences, precision agriculture, and other agriculture science systems. Throughout each semester, students will work on personal skill development of communication, team work, problem solving, and critical thinking. Students enrolled in this class will automatically be enrolled in the National FFA Organization. \$10 Project dues required.

## **METALS/WELDING 1 (INTRO)**

**Grade 9-12 Semester**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

SMAW Stick welding. Safety, process, of SMAW Welding. 7018 welding electrodes flat and horizontal welding positions only. Oxy Acetylene Welding-Safety, Processes of Gas welding. Application of Mild Steel filler rod as well as Brazing. All in flat and horizontal position. Students in this class are eligible for membership in the National FFA Organization. \$10 Project dues required.

## **METALS/WELDING 2 (INTERMEDIATE)**

**Grade 9-12 Semester**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: METALS/WELDING 1**

SMAW welding review of safety and processes. 6010 welding electrode use in flat, horizontal, vertical and overhead. 7018 vertical as well. GMAW (MIG/Wire Feed) welding safety, setup and adjustment, gasses, processes. Flat, horizontal, vertical and overhead positions with solid wire. \*Applications of MIG/Stick/Oxy through instructor assigned project fabrication to finish out the year. Students in this class are eligible for membership in the National FFA Organization. \$10 project dues required.

## **METALS/WELDING 3: ADVANCED STRUCTURAL WELDING**

**Grade 10-12 Semester**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: METALS/WELDING 2 OR INSTRUCTORS PERMISSION**

This class will focus on furthering the students' knowledge and skills in the SMAW (stick) welding area. Would review welding theory and technique then proceed into out of position SMAW that is vertical and overhead welding using both 7018 and 6010 electrodes. If time allows, students will learn full penetration, multiple pass welds that could be destructively tested. Students in this class are eligible for membership in the National FFA Organization. \$10 project dues required.

## AGRICULTURE EDUCATION CONTINUED...

### **METALS/WELDING 3: INTRODUCTION TO METAL FABRICATION**

**Grade 10-12 Semester**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

#### **PREREQUISITE: METALS/WELDING 2 OR INSTRUCTORS PERMISSION**

This class will be a semester long class that focuses on the fundamentals of metal fabrication. Materials taught would include GAMW Welding process and its application. Once this welding process is understood and skill welds have been turned in we will proceed into fabrication processes. Topics such as steel structures, steel shapes, measurement, squaring, tacking, distortion will be discussed. Once these topics are learned the students will build 2 different small required projects that have restrictions and parameters but ultimately be designed by the students. After these projects are completed we will challenge the students to build a project that requires a more complex design to better prepare them for taking a directed study in Project Fabrication. ***\$10 project dues required.***

### **METALS/WELDING 4 (ADVANCED)**

**Grade 11-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education***

#### **PREREQUISITE: EITHER SEMESTER OF METALS/WELDING 3 OR INSTRUCTORS PERMISSION**

Eventually will become a NWC Concurrent Enrollment Course. SMAW skill welds with both 7018 and 6010 all positions as well as multiple pass. Oxy fuel welding mild steel and brazing all positions as well as cutting. TIG welding setup and process. Applications in mild steel, stainless steel and aluminum (as time allows). \*Application of all learned welding and cutting skills through advanced project fabrication of students and instructors' design. Students in this class are eligible for membership in the National FFA Organization. ***\$10 project dues required.***

### **PROJECT FABRICATION WELDING**

**Grade 11-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education***

#### **PREREQUISITE: EITHER SEMESTER OF METALS/WELDING 3 OR INSTRUCTORS PERMISSION**

Project fabrication using all learned welding and cutting skills. These projects would be designed, paid for, and fabricated by the students for the most part. Some community projects will be completed here as well. Students in this class are eligible for membership in the National FFA Organization. ***\$10 Project dues required.***

## BUSINESS EDUCATION

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway
Introduction to Business	--	CTE	.5	9-12	Yes
Personal Finance	--	CTE	.5	9-12	Yes
NWC Practical Accounting (ACCT 1050)	--	CTE	.5	11-12	Yes
NWC Intro to Business (BADM 1000)	--	CTE	.5	11-12	Yes
Computer Graphics 1	--	CTE or Fine Arts	.5	9-12	Yes
Computer Graphics 2	Computer Graphics 1	CTE or Fine Arts	.5	9-12	Yes
Advanced Graphics	Computer Graphics 1 & 2	CTE or Fine Arts	1.0	10-12	Yes
Marketing with Media/Yearbook	See course description	CTE or Fine Arts	1.0	10-12	Yes
Journalism	See course description	CTE	1.0	10-12	Yes
Advanced Media Composition	Journalism	CTE, Elective or English	1.0	11-12	Yes

### **INTRODUCTION TO BUSINESS**

#### **Grade 9-12 Semester Course**

***Credit: .5***

#### ***Credit for Graduation: Career Technical Education***

Introduction to Business is designed to expose the interested student to many functions of modern business. The course shows the student how these functions exist in a changing society and the type of decisions which must be made within that environment. The course is also designed to expose the student to the multitude of career fields in the areas of business. The importance of business in the modern society is also stressed throughout the course. Topics such as business environment, management, organization, marketing, finance, accounting, and data processing are discussed in an introductory manner. Introduction to Business is one of the most vital classes in business or office administration. It is often the student's first exposure to contemporary business. As a result, the introductory business course can produce lifelong impressions and attitudes.

### **PERSONAL FINANCE**

#### **Grade 9-12 Semester Course**

***Credit: .5***

#### ***Credit for Graduation: Career Technical Education***

Quite possibly the most useful class a student could ever take! Personal Finance is designed to help students learn and apply valuable life skills in money management, career planning, saving, banking services, and credit management. By exploring successful strategies to grow and protect wealth, students will discover the richness of information available to manage their lives and their resources. The variety of topics and activities in personal financial literacy are designed to encourage students to move boldly into the future, armed with financial decisions for a lifetime!

### **NWC PRACTICAL ACCOUNTING (ACCT 1050)**

#### **Grade 11-12 Semester Course**

***Credit: .5 PHS Credit & 3 Northwest College Credits***

#### ***Credit for Graduation: Career Technical Education or Elective***

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Students acquire a basic understanding of accounting principles and procedures used to record, classify, summarize, and report financial data. Students also gain a foundation to perform accounting tasks as well as assist with making business decisions. Prior knowledge of accounting is not necessary. ***This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.***

### **NWC INTRO TO BUSINESS (BADM 1000)**

**Grade 11-12 Semester Course**

***Credit: .5 PHS Credit & 3 Northwest College Credits***

***Credit for Graduation: Career Technical Education or Elective***

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

A general introduction to principal business activities and the functions of management in planning, operating, organizing, and controlling an enterprise. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

### **COMPUTER GRAPHICS 1**

**Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education OR Fine Arts***

If you've always pictured yourself as a commercial artist but your drawing style is closer to stick figures than Cézanne, then graphic design might be just the business for you. With the great software available today, you can conjure up logos, letterheads, brochures, product packaging, mail order catalogs, print advertisements, magazine covers, movie posters, flyers, collages, montages, newsletters and cards --just about anything that needs a distinctive graphic ambience for the business client. Computer Graphics is a course designed to teach you the basic tools and techniques of Adobe Photoshop. Students will also be introduced to beginning photography with an emphasis on theories, tools and practices of digital imaging and the hardware and software used with this medium. Students will become familiar with the digital camera, scanners, scanning and file formats, image editing programs, printers and related materials and accessories. E-commerce applications will be discussed as design work is properly formatted for use on the Web. You will learn the proper formats and file types used in graphic design and how to properly find and save graphics from the Internet to use in your design work.

### **COMPUTER GRAPHICS 2**

**Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education OR Fine Arts***

**PREREQUISITE: COMPUTER GRAPHICS 1**

Got a knack for digital design or just enjoy manipulating digital images? Want to become more proficient at using digital media to create cool and unique projects? Then Computer Graphics II is the class for you. This course is designed to be an extension of Graphics I and give students more advanced training in Photoshop as well as explore the basic tools and applications of Adobe Illustrator and InDesign. With Illustrator, you can create everything from simple graphics, icons, and text to complex and multilayered illustrations, all of which can be used within a page layout, in a multimedia presentation, or on the Web. InDesign is a program that allows you to create output-ready layouts for anything from a simple coupon to a 120-page full-color magazine and an interactive PDF to a splash page for a web site. The basics of the digital camera introduced in Graphics I will be expanded upon so students can take a variety of photos for use in business and technology based applications. Graphics II is another hands-on course to prepare students for the digital world where they will learn to produce projects for both their personal and professional futures.

### **ADVANCED GRAPHIC DESIGN**

**Grade 10-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education OR Fine Arts***

**PREREQUISITE: COMPUTER GRAPHICS 1 AND COMPUTER GRAPHICS 2**

Ready to take your knowledge of graphic design to the next level? Looking for a fun and exciting course to further develop your skills within digital media? This course is designed to follow the basic graphic design instruction introduced in Graphics I and II and expand the student's ability to work with both pixel and vector based programs. Students will use a variety of software and media to further their exploration in the graphic design field. Photoshop, Illustrator, and InDesign and other software will be explored using a variety of topics to create fun and innovative projects.

### **MARKETING WITH MEDIA/YEARBOOK**

**Grade 11-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education OR Fine Arts***

**PREREQUISITE: COMPUTER GRAPHICS 1 OR DIGITAL PHOTO EXPERIENCE, MUST HAVE ADVANCED WRITING SKILLS AND/OR TEACHER APPROVAL**

Yearbook is a hands-on course where the students and teacher work closely together to produce Powell High School's annual and senior magazine. Students will learn many aspects of publication production as the yearbook is designed and produced. In this course, students will gain skills in the following areas: page design, publishing techniques, copy writing, editing, photography, record keeping, time management, teamwork, marketing, and leadership skills. Students are tasked with producing a timeless, creative and innovative publication which will record our school's community, memories and events. Yearbook class is different from every course taught at this school in that it is a real business maintaining an account that must balance-out at the end of term. Because Yearbook is a monetary business, students must cooperatively work with others, must be hardworking, and be eager to be creative.

### **JOURNALISM**

**Grade: (9<sup>th</sup> grade – 2<sup>nd</sup> Semester only w/approval; 10-12 Full Year)**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education***

**PREQUISITE: ADVANCED WRITING SKILLS AND RECOMMENDATION FROM ONE ENGLISH TEACHER; PHOTOGRAPHY AND WEB MANAGEMENT SKILLS A PLUS**

**\*CLASS MAY BE REPEATED FOR CREDIT\***

Students will be required to interview, write and edit news, feature, sports and opinion stories, take photographs, and post information to phsprowl.com, the school's online student newspaper. Students also might be required to spend time outside designated class time to complete the tasks required for this course.

### **ADVANCED MEDIA AND COMPOSITION**

**Grade 11-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: English, Elective or CTE***

**PREREQUISITE: SUCCESSFULLY COMPLETED A FULL YEAR OF REGULAR JOURNALISM IN ONE ACADEMIC YEAR**

Students will be required to serve as section editors, associate editors, or editor-in-chief of The Prowl, PHS' online student newspaper. They also will be required to interview, write and edit news, feature, sports, and opinion stories, take photographs, and maintain information on phsprowl.com. Students also will be expected to spend time outside designated class time to complete the tasks required for this course, including but not limited to covering news events involving the school district as a whole.



# ENGINEERING TECHNOLOGY

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway
CAD 1-Exploring CAD (Computer Aided Drafting)	--	CTE	.5	9-12	Yes
CAD 2 –Intermediate CAD (Computer Aided Drafting)	CAD 1- Exploring CAD	CTE	.5	9-12	Yes
CAD Independent Study (CAD 3 or CAD 4)	CAD 2	CTE	.5	10-12	Yes
SHOPBOT/CNC	See Course Description	CTE	.5	10-12	Yes

## **CAD 1 – EXPLORING CAD (COMPUTER AIDED DRAFTING)**

### **Grade 9-12 Semester Course**

**Credit: .5**

#### ***Credit for Graduation: Career Technical Education***

This is an introductory course to AutoCAD. The first nine weeks will be devoted to AutoCAD completing drawing exercises that will teach you how to create, edit, modify, annotate, dimension, and prepare sheets for plotting in 2D applications. The last nine weeks of the semester, you will have the opportunity to use AutoCAD to complete drawing exercises in 3D applications and generate a 3D part with our 3D printer. Other topics optionally covered will include architectural drafting, blue print reading, understanding and using the architectural scale, and orthographic projections. This course also serves as a prerequisite for other CAD courses being offered at Powell High School. ***\$10 Project dues required.***

## **CAD 2 – INTERMEDIATE CAD (COMPUTER AIDED DRAFTING)**

### **Grade 9-12 Semester Course**

**Credit: .5**

#### ***Credit for Graduation: Career Technical Education***

#### **PREREQUISITES: CAD I - Unless you want to take a full semester of Architectural Revit**

This is an intermediate course in CAD and an introduction to Autodesk Inventor. The first nine weeks of the semester will be devoted to using prior knowledge from the intro class to do 3D drawings in CAD. Also, an introduction to Autodesk Inventor will be covered. Students also have the option of using AutoCAD Architectural desktop; they will be given the opportunity to explore the world of architectural drafting. Architectural Revit is a complete parametric 3D CAD program which allows you to model your structure and generate multiple views needed for your design. At the end of nine weeks you will have gained enough knowledge and skill to generate a simple set of architectural drawings of your own personal design. Furthermore, Architectural drafting can be used to compete in architectural drafting in Skills USA at the state and national annual competition. The second nine weeks of the semester is designed to give the student a choice to further their study in one of the following three CAD programs: Continue with Architectural Revit, learn more about Autodesk Inventor, or continue in AutoCAD. All three courses will be offered during the same class period. Students may work independently or in groups under the discretion and guidance of the instructor. This will allow the student to further his/her study that most interests them. ***\$10 Project dues required.***

## **CAD INDEPENDENT STUDY (CAD 3 OR CAD 4)**

### **Grade 10-12 Semester Course**

**Credit: .5 Credits**

#### ***Credit for Graduation: Career Technical Education***

#### **PREREQUISITE: CAD 2**

This is an advance course designed for the student who has completed CAD I and CAD 2. This course will allow the student, who is capable to work independently, to further his/her study in the area of CAD drafting and design. This course will be offered during the same time periods as CAD I and/or CAD 2. Professional instructional tutorials will be made available online with guided materials to be completed. Students are encouraged to bring in own projects to reverse engineer in AutoCAD or Inventor. Also the option is open to work with a robotics student as a team member to compete in SkillsUSA and other competitions. ***\$10 Project dues required.***

### **SHOPBOT CNC**

**Grade 10-12 Semester Course or with teacher approval 9<sup>th</sup> Grade Semester 2**

***Credit: .5 Credits***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: 1<sup>ST</sup> SEMESTER OF INTRO TO WOODS AND CAD 1**

**\*CLASS MAY BE REPEATED FOR CREDIT\***

Students will get an in-depth look at CNC operations using the ShopBot CNC router, and also the CNC plasma cutter. This course will expand on the AutoCAD skills needed to design CNC projects that utilize these machines. Also, an in-depth understanding of programming the CNC machines will include but not limited to: PlasmaCAM and VCarvePro. Set up and material preparation for CNC cutting will also be covered in this course. A background in woodworking is required as various tools in the woodshop will be used. Also an understanding of woodworking construction processes, material finishes, and fasteners will be a required. Students will be designing, programming, setting up tools, cutting out parts, and then constructing projects based around CNC operations. Individual designed projects along with mass production projects will be part of this semester long class.

## FAMILY & CONSUMER SCIENCES

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway
Foods and Nutrition 1	--	CTE	.5	9-12	Yes
Foods and Nutrition 2	See Course Description	CTE	.5	9-12	Yes
Culinary Arts	See Course Description	CTE	1.0	10-12	Yes
Advanced Culinary Arts 1 (Sheridan College CULA 1510 Sanitation)	Culinary Arts	CTE	.5	11-12	Yes
Advanced Culinary Arts 2/Hospitality Mgt (Sheridan College CULA 1515 Basic Culinary Skills)	Advanced Culinary Arts 1	CTE	.5	11-12	Yes
Basic Baking (CULA 1700)	Culinary Arts	CTE	.5	11-12	Yes
Advanced Baking	Culinary Arts and Basic Baking	CTE	.5	11-12	Yes
Culinary Arts Independent Study	Culinary Arts, pass ServeSafe test and Teacher Approval	CTE	.5	11-12	Yes
Housing and Interior Design	--	CTE	.5	9-12	Yes
Apparel and Textiles	--	CTE	.5	9-12	Yes

### **FOODS AND NUTRITION 1**

#### **Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

This course is designed to give a student a better understanding of basic food preparation, reading and following recipes, and nutrition. Students will have choices in the selection of foods made through each unit in the foods lab. Students will learn how to prepare foods for independent living and the basics needed for the food industry. ***\$10 Project dues required.***

### **FOODS AND NUTRITION 2**

#### **Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: FOODS AND NUTRITION 1 OR 11<sup>TH</sup> OR 12<sup>TH</sup> GRADE WITH TEACHER OR COUNSELOR APPROVAL**

Students will learn more in depth meal and food preparation skills, nutrition, consumer information, equipment, buying food, and budgeting. Students will have choices in the selection of foods for meals made through each unit. If you are interested in planning more meals for yourself, friends and family, or are thinking about working in areas such as food science, food research, dietetics, you will want to take this class. ***\$10 Project dues required.***

### **CULINARY ARTS**

#### **Grade 10-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: FOODS AND NUTRITION 1 OR 11<sup>TH</sup> OR 12<sup>TH</sup> GRADE WITH TEACHER OR COUNSELOR APPROVAL**

Culinary Arts will study basic culinary art skills, terminology, safety and sanitation, food preparation and food quality, cooking methods, commercial equipment and basic knife skills all related to the restaurant, food and beverage service industry. Second semester will continue to study culinary arts skills through the study of foreign countries and foods. Students are responsible for production of products and management of the after school bake shop. ***\$20 Project dues required.***

## FAMILY & CONSUMER SCIENCES CONTINUED. . . . .

### **ADVANCED CULINARY ARTS 1 (SHERIDAN COLLEGE CULA 1510 SANITATION)**

**Grade 11-12 Semester Course**

***Credit: .5 PHS credit & 1 Sheridan College credit***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: CULINARY ARTS**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Applied Food Service Sanitation covers the latest developments, procedures, current government standards and emerging issues in Food Service Sanitation. Students will get a head start in understanding Hazardous Analysis Critical Control Point (HACCP), a cutting-edge system that is the hospitality industry's system-of-choice. Students will work in a restaurant setting and work towards ServeSafe certification. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and Sheridan College credit, and the grade earned will be reflected on both their PHS transcript and Sheridan College transcript. \$10 Project dues required.*

### **ADVANCED CULINARY ARTS 2 / HOSPITALITY MANAGEMENT (SHERIDAN COLLEGE CULA 1515 BASIC CULINARY SKILLS)**

**Grade 11-12 Semester Course**

***Credit: .5 PHS credit & 3 Sheridan College credits***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: ADVANCED CULINARY ARTS 1 (SHERIDAN COLLEGE CULA 1510 SANITATION)**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

This course gives the student an overview of the fundamentals that are required to be a professional culinarian. Topics such as knife skills, stocks, sauces, soups as well as recipe conversion, costing and product identification are all covered in this course. These are the basic building blocks that are required for future culinary success. Hospitality Management will provide students with knowledge and skills related to commercial and institutional food service establishments, with an emphasis on management. Course topics therefore include guest service and relationships, planning, resource management, and other topics related to managing and operating restaurants. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and Sheridan College credit, and the grade earned will be reflected on both their PHS transcript and Sheridan College transcript. \$10 Project dues required.*

### **BASIC BAKING (SHERIDAN COLLEGE CULA 1700 BASIC BAKING)**

**Grade 11-12 Semester Course**

***Credit: .5 PHS credit & 3 Sheridan College credit***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: Culinary Arts**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

This course takes a systems approach to the introduction, planning and preparation of baked goods. Beginning baking principles are introduced in the planning, purchasing, preparation, presentation, and proper storage of basic baked goods. Students learn how to tailor the guidelines of learned baking techniques to fit the specific needs of any operation. Students that have not taken or passed the Servsafe Manager Test will be required to be tested. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and Sheridan College credit, and the grade earned will be reflected on both their PHS transcript and Sheridan College transcript.*

**ADVANCED BAKING**

**Grade 11-12 Semester Course**

***Credit: .5 PHS credit***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: Culinary Arts and Basic Baking**

This course is to introduce the student to more complex fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts, doughnuts, flours, fillings and ingredients. Other topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products. Emphasis on advanced techniques is included in the study of classical desserts, French and international pastries.

**CULINARY ARTS INDEPENDENT STUDY**

**Grade 11-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: CULINARY ARTS, PASSED SERVSAFE TEST AND TEACHER APPROVAL**

This course will enable students to explore topics of interest within the restaurant, food, and beverage services industry. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills. ***\$20 Project dues required.***

**HOUSING & INTERIOR DESIGN**

**Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: RECOMMENDED APPAREL AND TEXTILES 1 OR TEACHER PERMISSION**

Housing covers the selection and financing of a home, home construction and selection, home styles, designing a house, furniture styles, and the use of elements and principles of design. Many projects related to housing will be completed. This course is recommended for those students taking CAD courses.

**APPAREL AND TEXTILES**

**Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education \*May be repeated for credit\****

This course will cover the basics of sewing construction techniques and basic textile selection. Students will learn how to use the sewing machine, sergers, and basic sewing construction tools. Students will learn the foundations of sewing with class directed projects designed to build skills. Male and female students encouraged to register.

## HEALTH SERVICES

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway
Human Development	Health Education and be a Sophomore	CTE	.5	10-12	Yes
Education and Training/Teacher Cadet (TAC)	Health and Human Development	CTE	.5	10-12	Yes
Teacher Cadet (TAC) Field Training	See Course Description	CTE	.5	11-12	Yes

### **HUMAN DEVELOPMENT**

#### **Grade 10-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

#### ***PREREQUISITE: HEALTH EDUCATION AND SOPHOMORE***

In this course students will learn about the four areas of human growth and development, the hierarchy of human needs, genetics, genetic diseases, and current issues in genetic research. Students learn about the prenatal and neonatal stages as they identify health issues and accomplishments. Students will learn about the childhood stage as they identify developmental tasks, health issues, and challenges for each stage, including infants and toddlers and early and middle childhood. Students will learn about the adolescence and adulthood stages as they identify developmental tasks, health issues, and challenges for each stage, including adolescence and early, middle and late adulthood. Emphasis on Careers in Prenatal Development/Delivery and Education/Training.

### **EDUCATION AND TRAINING**

#### **Grade 10-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

#### ***PREREQUISITE: HEALTH AND HUMAN DEVELOPMENT***

This course addresses child development and education issues so that students can guide the development of children in educational settings. This teacher cadet course includes the planning and implementing of developmentally appropriate learning activities, health and safety practices, safe learning environments, and legal requirements in education.

### **TEACHER CADET (TAC) FIELD TRAINING**

#### **Grade 11-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

#### ***PREREQUISITE OR COREQUISITE: JUNIOR STANDING EDUCATION AND TRAINING AND TEACHER APPROVAL***

This course will enable student's opportunities to practice skills and learn from supervising professionals in Education and Training/Teacher Cadet Course. Student's field experience may include partnering with local preschools, elementary schools, middle schools, high school or related education administration. Field Experience courses serve as an opportunity for students to expand their expertise in the field of education and training. Students are expected to have an exemplary attendance record.

## HEALTH SERVICES

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway
Human Development	Health Education and be a Sophomore	CTE	.5	10-12	Yes
Healthcare Occupations	Health Education	CTE	.5	10-12	Yes
Healthcare Foundations	2 of the 3: Health, Human Dev or Healthcare Occupations	CTE	.5	10-12	Yes
Healthcare Field Experience	Healthcare Occupations and Healthcare Foundations and Teacher Approval	CTE	.5	10-12	Yes

### **HUMAN DEVELOPMENT**

#### **Grade 10-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

***PREREQUISITE: HEALTH EDUCATION AND SOPHOMORE***

In this course students will learn about the four areas of human growth and development, the hierarchy of human needs, genetics, genetic diseases, and current issues in genetic research. Students learn about the prenatal and neonatal stages as they identify health issues and accomplishments. Students will learn about the childhood stage as they identify developmental tasks, health issues, and challenges for each stage, including infants and toddlers and early and middle childhood. Students will learn about the adolescence and adulthood stages as they identify developmental tasks, health issues, and challenges for each stage, including adolescence and early, middle and late adulthood. Emphasis on Careers in Prenatal Development and Delivery and Education and Training.

### **HEALTH CARE OCCUPATIONS**

#### **Grade 10-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

***PREREQUISITE: HEALTH EDUCATION***

This is the first semester-long course in the CTE Health Care Sciences Comprehensive 1400 Pathway. This course is designed for students seeking a career in the health care field. Health Care Occupations course introduces students to concepts and soft skills needed to succeed in today's job market. Students will learn about health care careers, professionalism, customer service, career development, and job seeking.

### **HEALTH CARE FOUNDATIONS**

#### **Grade 10-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

***PREREQUISITE: HEALTH & HEALTHCARE OCCUPATIONS***

This is the second semester-long course in the CTE Health Care Sciences Comprehensive 1400 Pathway. This course is designed for students seeking a career in the health care field. This course offers fundamental concepts needed for a career in health care. This curriculum prepares students for entry-level health care employment and further training in health care occupations. Opportunity for American Heart BLS Certification.

### **HEALTHCARE FIELD EXPERIENCE**

**Grade 10-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: MUST BE A JUNIOR AND HEALTH CARE OCCUPATIONS AND HEALTH CARE FOUNDATION AND TEACHER APPROVAL**

This is the third course offering in the CTE Health Care Sciences Comprehensive 1400 Pathway. This course is designed for students seeking a career in the health care field. This course is a Field Experience of Study in a Health Care Field. Students will work with an instructor to design their field experience. Students will meet with both Supervising Health Care Field Professionals and Course Instructor weekly. Students will complete field experience of study during the semester.



## INDUSTRIAL ARTS

	Prerequisite	Program Area	Credit	Grade	Hathaway
Basic Woodworking Technology	--	CTE	1.0	9-12	Yes
Advanced Woodworking Technology	Basic Woodworking	CTE	1.0	10-12	Yes
Building Trades Technology	--	CTE	1.0	11-12	Yes

### **BASIC WOODWORKING TECHNOLOGY**

**Grade 9-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education***

This is an introductory course to woodworking to teach the student the proper and safe use of all hand and power tools we have in our facility. In addition, the student will learn about wood joinery, mechanical fasteners, wood preparation, and finishing techniques. The students will be required to complete many hands-on learning activities and/or projects throughout the course. During the second semester, the student will learn how to create working drawings from a simple 3D modeling program. Upon completion, the student will gain the confidence and skills required to design and build an attractive wood project. \$10 Project dues required.

### **ADVANCED WOODWORKING TECHNOLOGY**

**Grade 10-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education***

#### **PREREQUISITE: BASIC WOODWORKING TECHNOLOGY**

This course is a continuation of Basic Wood Technology and for the advanced student who wants to learn all about cabinet construction, furniture building, construction trades and career pathways in the woodworking. This course gives the student the opportunity to build personal woodworking projects emphasizing cabinetry and furniture. In addition, the student will be required to complete several hands-on learning activities that are not included in his/her personal project(s). Included in this course is hands on experience framing walls with the opportunity to work on construction projects. Being a yearlong class, the first semester will focus on cabinetry, the second construction and career trades in woodworking. \$10 Project dues required.

### **BUILDING TRADES TECHNOLOGY**

**Grade 11-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education***

This course is setup for the student who wants to learn and develop his/her skills in building trades; primarily in wood frame construction. It's also for the student who has interest in architectural design and construction engineering. Students will work in groups and will be asked to build a scaled down model house from a real set of architectural construction drawings that simulates real construction. By completing this hands-on learning activity, the student will have a thorough understanding of all the components that make up a residential house and how they all fit together to form a structure. The student may also have the opportunity to build storage sheds for habitat for humanity and/or play houses to be sold or auction off to the community. This course will also prepare the student who wishes to compete in Skills USA at the state and national level. \$10 Project dues required.

## INFORMATION TECHNOLOGY COURSES

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway Eligible?
Web Development 1	--	CTE	.5	9-12	Yes - CTE
Web Development 2	Web Dev. 1	CTE	.5	9-12	Yes - CTE
Web Development 3	Web Dev. 2 & Comp Science 1	CTE	.5	10-12	Yes - CTE
Computer Science 1	Co-Requisite Algebra 1	CTE/SCI	.5	9-12	Yes – Science/CTE
Computer Science 2	Comp. Sci. 1	CTE/SCI	.5	9-12	Yes – Science/CTE
AP Computer Science	Comp. Sci. 2 & Teacher Approval	CTE/SCI	1.0	11-12	Yes – Science/CTE
Robotics 1	--	CTE	.5	9-12	Yes -CTE
Robotics 2	Robotics 1	CTE	.5	9-12	Yes -CTE
Robotics 3-Advanced Robotics	Robotics 1 & Teacher Approval	CTE	.5	10-12	Yes -CTE
Robotics 4 – Applied Robotics	Robotics 1 & Teacher Approval	CTE	.5	10-12	Yes -CTE
Robotics 5-Unmanned Aircraft Systems	Two semesters of Robotics 1,2,3 or 4	CTE	1.0	11-12	Yes-CTE
Robotics Independent Study	Teacher Approval	CTE	.5	11-12	Yes-CTE

### **WEB DEVELOPMENT 1**

**Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

Web Development 1 allows students to create their presence on the World Wide Web (WWW). Students will explore the creation process through hands-on development of websites. Students will author websites using HTML and design tools to create custom images and designs for their sites. The course will also explore Internet history, how the Internet works, page layout, content design, file management, and site structure.

### **WEB DEVELOPMENT 2**

**Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: WEB DEVELOPMENT 1**

Web Development 2 expands on the concepts learned in Web Development 1 and allows students to develop more advanced websites and dynamic content using an advanced web page editor. Animation, video, and other rich media for websites will also be explored. Pages used by the PHS student body will be designed and published in class. Student will also learn JavaScript and design responsive pages.

### **WEB DEVELOPMENT 3**

**Grade 10-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: Web Development 2 and Computer Science 1**

Web Development 3 applies the web design skills acquired in earlier courses to real-world development. Students will design, develop, and maintain a site(s) over time for real world customers. Students will acquire teamwork and project management skills as they oversee real-life web development assignments. Sites will involve live dynamic content with data critical aspects, such as voting sites or sites with shopping carts. C# Programming behind the HTML are necessary to be successful with these implementations.

## INFORMATION TECHNOLOGY CONTINUED...

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### **COMPUTER SCIENCE 1**

**Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education or Science***

**CO-REQUISITE: ALGEBRA 1**

**\*Computer Science must be taken in 9<sup>th</sup> thru 12<sup>th</sup> grade to count as a science credit.**

Computer Science 1 is designed for students who have a basic knowledge of computers and an interest in learning how to write programs. No programming experience is needed because the course makes use of beginning level programming environments and languages that will help students to learn more advanced languages. Fundamental concepts about how computers work will be introduced. Students will work to develop the fundamental skills necessary for computer-based problem solving by designing and writing their own programs. Basic game development and strategy will be the focus of this course.

### **COMPUTER SCIENCE 2**

**Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education or Science***

**PREREQUISITE: COMPUTER SCIENCE 1**

Computer Science 2 expands on the concepts learned in Computer Science 1 and allows students to develop more advanced games. Game development theory will be taught alongside advanced programming skills. Students will review the concepts of programming logic, object-orientation, decision-making, looping, and events as they develop games for the Xbox platform.

### **AP COMPUTER SCIENCE**

**Grade 10-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education or Science***

**PREREQUISITE: COMPUTER SCIENCE 2 AND TEACHER APPROVAL**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

The AP Computer Science curriculum uses the programming language JAVA. This is an AP course so there will be a huge amount of time needed outside of class to get projects/programs completed. Students who enroll in this course will be required to sign a contract. Students will also be required to take the AP exam, which will be paid for by PHS

### **ROBOTICS 1**

**Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

Robotics provides students an introduction to computer programming and develops computational thinking, logic, and problem-solving skills through designing, building, and programming robots. Students will work together to devise solutions for problems and then construct, troubleshoot, program, and test their design. Topics will include engineering, research, and design, behaviors, systems, control, sensors, and feedback. This class will be taught using a STEM approach using RobotC.

### **ROBOTICS 2**

**Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: ROBOTICS 1**

Robotics 2 expands on the concepts learned in Robotics 1 and allows students to create robots with more complex designs and programming instructions. Students will use more advanced sensors and motors and will build robots to compete in small team based challenges. Students will develop valuable computer programming skills that transfer to many other areas while they learn to program their robots to do interesting tasks.

## INFORMATION TECHNOLOGY CONTINUED...

### **ROBOTICS INDEPENDENT STUDY**

**Grade 11-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: ROBOTICS 1 & TEACHER APPROVAL**

Independent study robotics is a course designed for either current robotics club members competing in the FIRST Tech Challenge or students that have completed Robotics 1, 2, 3, and 4. Students will work on their robotics club robots or build and design a robot that could compete in that year's FIRST Tech Challenge. Students will meet with teacher and outline a grading plan for the course. Class is open to juniors and seniors ONLY

### **ROBOTICS 3 – ADVANCED ROBOTICS**

**Grade 10-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: ROBOTICS 1 & TEACHER APPROVAL**

This course will expand the challenges faced by teams of students. Robots will be bigger and more complex with more powerful motors and more advanced sensors. The programming tools will be professional level with finer control. The Scientific Method and Engineering techniques will be used to design and implement scaled real work robotic challenges. Challenges will vary annually.

### **ROBOTICS 4 – APPLIED ROBOTICS**

**Grade 10-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: ROBOTICS 1 & TEACHER APPROVAL**

Scaled down real world challenges will be explored and conquered in this course. Although smaller in scale, problems that Embedded Systems Engineers face today will be covered. Creative thinking, problem solving, documentation, and custom modifications to robots will be required to be successful. This class focuses on the annually changing robotics challenge presented by SkillsUSA.

### **ROBOTICS 5 – UNMANNED AIRCRAFT SYSTEMS**

**Grade 11-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Career Technical Education***

**PREREQUISITE: TWO SEMESTERS OF ROBOTICS 1,2,3 OR 4**

This is an introductory course into the world of UAS (unmanned aircraft systems). Students will learn about different types of UAS systems, uses for UAS, sensor options for UAS, payload options for UAS, and how to collect and analyze data collected during flight. Students will fly drones on a simulator, fly small training drones, and larger, industrial drones. At the end of Robotics 5, students will take the FAA drone certification test. The main purpose of the course is to fly a UAS at a high level and become a certified UAS operator.

# ENGLISH

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway Eligible?
English 9	--	Core	1.0	9	Yes
English 10	--	Core	1.0	10	Yes
Honors Pre-AP English 10	Eng 9 & Teacher Recommendation	Core	1.0	10	Yes
English 11	--	Core or Elective	1.0	11	Yes
English 12	--	Core or Elective	1.0	12	Yes
Creative Writing	Eng 9 & 10	Core or Elective	.5	11-12	Yes
Holocaust Literature	Eng 9 & 10	Core or Elective	.5	11-12	Yes
Advanced Media and Composition	Journalism	Core, Elective or CTE	1.0	11-12	Yes
AP Language and Composition	See Course Description	Core or Elective	1.0	11-12	Yes
ENGL 1010: English Composition I	ACT English 18 or ACCUPLACER Test	Core or Elective	.5	12	Yes
ENGL 2020: Literature Media Culture	ENGL 1010 with a "C" or better	Core or Elective	.5	12	Yes

## **ENGLISH 9**

### **Grade 9 Full Year**

***Credit: 1.0***

#### ***Credit for Graduation: English***

English 9 is a required full-year course. Composition will emphasize the writing process in developing well-constructed paragraphs and extended compositions. Grammar will focus on a review and reinforcement of basic skills and an introduction of new skills as they are required in writing and editing. Literature will focus on reading, vocabulary, and analyzing short stories, novels, drama, and poetry. The first semester will concentrate on the multi-paragraph essay (expository and persuasive). Emphasis will be placed on mastery of the introductory paragraphs, transitions, logical support and concluding paragraphs. Student will cover short stories, novels, non-fiction, and narratives as well. The second semester will focus on extrapolating information from various sources. The process and organization of this research will be covered as well. Students will cover poetry, mythology, and drama. Group discussions will take place in both semesters with an expectation of active listening and responding. Students will respond through writing and oral presentations using standard language conventions as well as form, tone, and style to the information presented in class. Speaking and listening skills, vocabulary skills, study skills, and reference skills are also included.

## **ENGLISH 10**

### **Grade 10 Full Year**

***Credit: 1.0***

#### ***Credit for Graduation: English***

English 10 is a required full-year course. The tenth grade course of study builds upon competencies acquired in the ninth grade course such as: reading and reacting to novels, poetry, short stories, drama, and non-fiction. It also includes written responses to these readings using a variety of formats. Speech is a key component of the course work for this year. Library research and written preparation will also be used. The purpose of this course is to develop oral communication skills in formal speaking situations. Emphasis is placed on using public speaking skills, listening skills, and group discussion techniques. Students will analyze audiences for speaking purposes and will evaluate speeches and speaking techniques. The first semester will focus on literary conventions used in writing texts. Students will master speaking skills such as improve oral communication skills, and verbal and non-verbal techniques. The second semester will consist of the study of fundamental concepts of argumentation and problem solving and through the presentation of informative, persuasive, and argumentative speeches. Students will also learn how to analyze and use a variety of resources for main points and supporting details. Speaking and listening skills, vocabulary skills, study skills, and reference skills are also included.

**HONORS PRE-AP ENGLISH 10****Grade 10 Full Year*****Credit: 1.0******Credit for Graduation: English*****PREREQUISITE: A in English 9 and no missing assignments plus their current TEACHER'S RECOMMENDATION****Pre-AP English 10 will not have a weighted GPA**

The purpose of the Pre-AP class is to enable students to read complex texts with understanding and to write prose that are rich enough and complex enough for mature readers. This course will prepare students for AP Language and Composition and AP Literature and Composition. The class is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. By their writing and reading in this course, students should become aware of the interactions among a writer's purpose, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effective writing. In addition, students will be exposed to public speaking skills as the 10th grade year is where this skill is most prevalent. This course will be built around rigorous curricula and a fast pace of learning. Students may enroll but need to know that teacher recommendation is a key component to acceptance into the class. Other criteria will include scores on EXPLORE and MAPS progress in 9th grade. Once a student is accepted, he/she may not drop the class after June 1<sup>st</sup>. Students whose grade is lower than a "C" after the first semester will be removed from the class and placed in English 10 for second semester. There may be summer reading requirements depending on the instructor selected to teach the course. Whatever form the course takes, students should write in informal as well as formal contexts to gain authority and to learn to take risks in writing. Imitation exercises, journal keeping, collaborative writing, and in-class responses are all good ways of helping students become increasingly aware of themselves as writers and of the techniques employed by other writers. Students should also read a wide variety of prose styles from many disciplines and historical periods to gain an understanding of the connections between interpretive skill in reading and writing.

**ENGLISH 11****Grade 11 Full Year*****Credit: 1.0******Credit for Graduation: English or Elective***

The eleventh grade course of study builds upon competencies acquired in the ninth and tenth grade courses such as: reading and reacting to novels, poetry, short stories, drama, and non-fiction. It also includes written responses to these readings using a variety of formats. Emphasis on preparation for the ACT test is a key component to this course. The course focuses on developing an understanding of major authors, periods, features, and themes of American literature and on using the writing process to produce specified types of papers, including literary analysis, on demand essays, and a research paper. Speaking and listening skills, vocabulary development, study skills, and reference skills are also included. The first semester will cover American literature through the 19th Century. Composition will prepare students for success on the ACT test through essays, extended response and constructed response items. The second semester will continue American literature from the 20th Century to the present. Composition will include a variety of writing activities such as: poems, creative essays, and the research paper. Speaking and listening skills, vocabulary skills, study skills, and reference skills are also included.

**ENGLISH 12****Grade 12 Full Year*****Credit: 1.0******Credit for Graduation: English or Elective***

English 12 builds upon competencies acquired in the freshman, sophomore, and junior-level English courses including: reading and reacting to novels, poetry, short stories, drama, non-fiction, and applied communications. First-semester emphasis is on applied communications and producing a professional portfolio that includes a resume, intro/cover letter, college essays, and securing letters of recommendation. Additional focus is on both classic and contemporary literature and producing critical-level writing samples. Second-semester emphasis is on exploring mythology and world literature "through the modern lens." Students will be expected to read, write, and discuss complex themes derived from ancient and contemporary mythology and non-fiction. The course culminates with a capstone project wherein they demonstrate their ability to synthesize information and present it through an analytical multi-media presentation.

### **CREATIVE WRITING**

**Grade 11-12 Semester Course**

**Credit: .5**

**Credit for Graduation: English or Elective**

**PREREQUISITE: RECOMMEND THE SUCCESSFUL COMPLETION OF ENGLISH 9 AND 10**

**COREQUISITE: You must also sign up for another semester of English**

This semester class is designed for students who wish to experiment with composing several kinds of creative writing: short fiction (with glances at creative nonfiction) and poetry. This course is writing-intensive, which means that students will write or revise work every week; roughly eight weeks will be devoted to short fiction and poetry. There will be regular individual conferences for students with the instructor to discuss their progress and interests. Half of each week's class time will be spent discussing student work and half will be spent discussing syllabus readings. The focus of this course will be both on craft (the tools necessary to successful creative writing (voice, perspective, plot, character, setting, etc.) and on content (what it is in any literary work of art that we admire, and that makes us want to write something like it ourselves if we are writers). Students in this class are expected to become, not only creative writers, but also close readers of literature and more capable critics of their own and each other's work.

### **HOLOCAUST LITERATURE**

**Grade 11-12 Semester Course**

**Credit: .5**

**Credit for Graduation: English or Elective**

**PREREQUISITE: RECOMMEND THE SUCCESSFUL COMPLETION OF ENGLISH 9 AND 10**

**COREQUISITE: You must also sign up for another semester of English**

The Holocaust is one of the best-documented historical examples of a systematic, deliberate brutalization and annihilation of one human group by another and through the examination of the literature of the period; we might be better able to understand how prejudice can escalate into genocide. How does literature impact our understanding of the Holocaust, and how might literature help us to understand the individual choices that led to the Holocaust? Holocaust Literature is a course that will help students gain a better understanding of the major ideas and themes of this period and to reflect on the roles and responsibilities of individuals, groups, and nations when confronting the abuse of those in power. To better understand why, how, when, and where the Holocaust took place, including the key historical trends/antecedents that led to the "Final Solution," we will read various genres (memoir, poetry, drama, legend, short story, novel, etc.) and explore related contemporary issues. Students will learn about anti-Semitism, the travesties of the Holocaust, and be able to apply their findings to present-day society. Students will also deepen their understanding of human nature, organized society, political leadership, democratic participation, and civilization itself. Discussion, reading, research, and writing will be employed throughout the semester.

### **ADVANCED MEDIA AND COMPOSITION**

**Grade 11-12 Full Year**

**Credit: 1.0**

**Credit for Graduation: English, Elective or CTE**

**PREREQUISITE: SUCCESSFULLY COMPLETED A FULL YEAR OF REGULAR JOURNALISM IN ONE ACADEMIC YEAR**

Students will be required to serve as section editors, associate editors, or editor-in-chief The Prowl, PHS' online student newspaper. They also will be required to interview, write and edit news, feature, sports, and opinion stories, take photographs, and maintain information on phsporowl.com. Students also will be expected to spend time outside designated class time to complete the tasks required for this course, including but not limited to covering news events involving the school district as a whole.

## **AP LANGUAGE AND COMPOSITION**

**Grade 11-12 Full Year**

**Credit: 1.0**

**Credit for Graduation: English or Elective**

**PREREQUISITE:** Students wanting to enroll in AP Language and Composition should enjoy reading and must exhibit an advanced vocabulary and knowledge of the mechanics of language. Students must have a strong background in history, display an interest in current events, show initiative, and demonstrate the ability to work independently. Students will be required to complete summer reading and projects prior to the start of their junior/senior year. Students must achieve at least a “A” in previous English classes and their current

**TEACHER’S RECOMMENDATION**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

AP Language and Composition is designed to challenge the student’s ability to think critically, to synthesize literature, and to write effectively. The course will emphasize literary works from many countries. In addition, information concerning cultural, historical, philosophical, and psychological backgrounds will be addressed. The genres will include epics, dramas, novels, and poetry. AP Language and Composition will refine and improve writing styles. During the first semester, special attention will center on personal and critical essays. The course’s writing unit design will focus on these areas: thesis statements, proof paragraphs, transitions, epiphanies, parallelism, paragraph unity and coherence, and common mechanical errors. Students will analyze literature independently and will correlate concepts with literary backgrounds. The AP Language and Composition course will prepare students for the College Board Advanced Placement Exam through curriculum and similar testing procedures. Students can earn college credit for this course by scoring from 3 to 5 on the College Board Examination at the end of the school year. Students who enroll in this course will be required to sign a contract and will not be allowed to drop the course after June 1<sup>st</sup>. Students whose grade is lower than a “C” after the first semester will be removed from the class and placed in English 11 or 12 for second semester. Students will also be required to take the AP exam, which will be paid for by PHS.

## **NWC ENGL 1010 ENGLISH COMPOSITION I**

**Grade 12 Semester Course**

**Credit: .5 PHS credit & 3 Northwest College credits**

**Credit for Graduation: English or Elective**

**PREREQUISITE:** ACT ENGLISH SCORE 18 OR ACCUPLACER TEST PLACEMENT

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Students learn essential elements of academic writing at the college level as they write informative, analytical, and argumentative essays. Students also practice skills required for writing based on research. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

## **NWC ENGLISH II: LITERATURE MEDIA CULTURE (ENGL 2020)**

**Grade 12 Semester Course**

**Credit: .5 PHS credit & 3 Northwest College credits**

**Credit for Graduation: English or Elective**

**PREREQUISITE:** COMPLETION OF ENGL 1010 WITH A “C” OR BETTER

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Designed as a reading and writing course devoted to the study of the content and technique involved in poems, short stories, plays, and occasionally novels. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*



**ENGLISH BASICS**

**Grade 9-12 Full Year**

**Credit: 1.0**

**PREREQUISITE: AVAILABLE TO STUDENTS WITH INDIVIDUALIZED EDUCATION PLANS AS PER FEDERAL LAW**

This class is designed to provide individualized specialized instruction to improve students' reading and writing abilities. Focus is placed on the fundamentals of word skills, vocabulary and comprehension for reading and sentence coherence and sentence fluency for writing. Intensive instruction is provided for use of proper conventions, adequate vocabulary, and proper spelling. Instruction for composing paragraphs and 5 paragraph essays is emphasized. Instruction and practice are provided in small groups and by individual need using informational text, short stories, and books. Novels or non-fiction books are chosen to read based on student interest to encourage the love of reading. Computer based reading is also used.

# FOREIGN LANGUAGES

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway Eligible?
French 1	--	Elective	1.0	9-12	Yes
French 2	French 1	Elective	1.0	10-12	Yes
French 3	French 2	Elective	1.0	11-12	Yes
French 4	French 3	Elective	1.0	12	Yes
Spanish 1	--	Elective	1.0	9-12	Yes
Spanish 2	Spanish 1	Elective	1.0	9-12	Yes
Spanish 3	Spanish 2	Elective	1.0	10-12	Yes
Spanish 4	Spanish 3	Elective	1.0	11-12	Yes

## **FRENCH 1**

**Grade 9-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Elective***

This class is for the beginner in foreign language study and starts with easy vocabulary and sentence structures designed to develop the four essential skills of reading, writing, listening, and speaking. The teacher and the students use the language as much as possible in classroom activities. An introduction to French cultures and to the French speaking peoples of the world is incorporated into the lessons.

## **FRENCH 2**

**Grade 10-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Elective***

**PREREQUISITE: FRENCH 1 OR EQUIVALENT FRENCH LANGUAGE EXPERIENCE**

A review, continuation, and expansion of the language skills presented in French 1. There is ongoing emphasis on cultural similarities and differences. Students continue to study basic grammatical structure in present and past tenses. They are also introduced to the use of object pronouns.

## **FRENCH 3**

**Grade 11-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Elective***

**PREREQUISITE: FRENCH 2 OR EQUIVALENT FRENCH LANGUAGE EXPERIENCE**

Students will expand their French vocabulary and begin learning more sophisticated grammatical structures. Students are also introduced to cultural contributions of major events in history. An introduction to French literature is begun. Continued development of language skills will be enhanced by classroom practice.

## **FRENCH 4**

**Grade 12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Elective***

**PREREQUISITE: FRENCH 3 OR EQUIVALENT FRENCH LANGUAGE EXPERIENCE**

Students will expand their French vocabulary and begin learning more sophisticated grammatical structures. Students will continue to study cultural contributions of major events in history. An introduction to French literature is continued. Continued development of language skills will be enhanced by classroom practice.

### **SPANISH 1**

**Grade 9-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Elective***

This class is designed to expose students to and familiarize them with the Spanish language, the people who use it as a first language, and the cultures that share it. Students will participate in tasks oriented towards five identified proficiency skills of listening, speaking, reading, writing, and culture. This class is designed for students who have had no previous experience with the language.

### **SPANISH 2**

**Grade 9-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Elective***

**PREREQUISITE: SPANISH 1 OR EQUIVALENT SPANISH FOREIGN LANGUAGE EXPERIENCE**

This class is designed to build upon what students learned from their first year of Spanish. It expands further into grammar and vocabulary skills, and continues to focus on the five proficiency skills of listening, speaking, reading, writing, and culture. The class is designed for students with one year of Spanish I or extensive experience with the language.

### **SPANISH 3**

**Grade 10-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Elective***

**PREREQUISITE: SPANISH 2 OR EQUIVALENT SPANISH FOREIGN LANGUAGE EXPERIENCE**

In this class, students use the skills they have acquired from their first two years of Spanish to communicate effectively with others at their same level of learning or higher. Students will use the five proficiency skills of listening, speaking, reading, writing, and culture to express themselves and to communicate with others about their beliefs and experiences. This class is designed for students who have had at least two years of high school Spanish.

### **SPANISH 4**

**Grade 11-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Elective***

**PREREQUISITE: SPANISH 3 OR EQUIVALENT SPANISH FOREIGN LANGUAGE EXPERIENCE**

In this class, students use the skills they have acquired from their first three years of Spanish to communicate effectively with others at their same level of learning or higher. Students will use the five proficiency skills of listening, speaking, reading, writing, and culture to express themselves and to communicate with others about their beliefs and experiences. We will also focus on literature and using the language regularly in class. This class is designed for students who have had at least three years of high school Spanish.

# MATH

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway Eligible?
Pre-Algebra	See Description	Core	1.0	9-12	TBD
Algebra 1	See Description	Core	1.0	9-12	Yes
Algebra 2	Algebra 1	Core	1.0	9-12	Yes
Geometry	Algebra 1	Core	1.0	10-12	Yes
Geometry-Trigonometry	See Description	Core	1.0	10-12	Yes
Pre-College Algebra	See Description	Core	1.0	11-12	Yes
College Algebra	See Description	Core	1.0	11-12	Yes
Pre-Calculus Algebra/Trigonometry	See Description	Core	1.0	11-12	Yes

## **PRE-ALGEBRA**

**Grade 9-12 Full Year**

**Credit: 1.0**

**Credit for Graduation: Math**

### **PREREQUISITE: PLACEMENT IN THIS COURSE BY TEACHER/COUNSELOR REC ONLY**

Pre-Algebra is an introductory course designed to prepare students for success in Algebra I. Basic math concepts regarding number sense and the rules regarding math operations will be reviewed. Students will practice skills taught in previous math courses at higher levels in order to expand their knowledge base. New topics in Pre-Algebra will include integers, one-step equations, inequalities and equations, graphs, proportions and probabilities. An introduction to geometry will also be included. Concepts in this course will be presented and practiced in way that develops and solidifies true understanding with a focus on the ability to apply knowledge to new and/or real-world problems.

## **ALGEBRA 1**

**Grade 9-12 Full Year**

**Credit: 1.0**

**Credit for Graduation: Math**

Algebra 1 is the foundation for high school mathematics courses. It provides a formal development of the algebraic skills and concepts necessary for students to succeed in advanced courses. Topics include simplifying expressions, using ratios and proportions to solve problems, similarity of polygons, solving percent problems, conversions of distance and rate, solving equations and inequalities, solving absolute value equations and inequalities, identifying and graphing of linear and quadratic functions and relations, solving and graphing systems of equations and inequalities, simplifying using the properties of positive and negative exponents, and simplifying and factoring polynomials. This course provides for the use of algebraic skills in a wide range of problem-solving situations, including real world problems.

## **ALGEBRA 2**

**Grade 9-12 Full Year**

**Credit: 1.0**

**Credit for Graduation: Math**

### **PREREQUISITE: ALGEBRA 1**

Algebra 2 continues to stress the basics learned in Algebra 1. Problem solving techniques are developed and a more advanced study of equations, inequalities, polynomials, and functions is undertaken. Included in Algebra 2 is a study of polynomials, linear equations and inequalities, systems of equations, radicals and irrational numbers, complex numbers, right triangle trigonometry, and a more advanced look at quadratic relations and quadratic systems.

## **GEOMETRY**

**Grade 10-12 Full Year**

**Credit: 1.0**

**Credit for Graduation: Math**

### **PREREQUISITE: ALGEBRA 1**

Geometry is a discovery approach, whereby students use the tools of Geometry to discover geometric properties and concepts by experimentation and observation. Students must participate in cooperative group decision-making as well as write and talk about the mathematics they encounter. Students will need to have successfully passed Algebra 1 or by teacher approval. Geometry should better prepare the student for the more advanced level courses of high school. Geometry is also an important subject for many college level courses and is important to passing college math entry tests.

## **GEOMETRY-TRIGONOMETRY**

**Grade 10-12 Full Year**

***Credit: 1.0***

***Credit for Graduation: Math***

### **PREREQUISITE: STUDENTS WHO HAVE COMPLETED ALGEBRA 1 AND ALGEBRA 2**

Students taking this course will have one semester of Geometry and one semester of Trigonometry. Geometry is a discovery approach, whereby students use the tools of geometry to discover geometric properties and concepts by experimentation and observation. Students must participate in cooperative group decision-making, as well as, write and talk about the mathematics they encounter. Students will need to have successfully completed Algebra 1 and Algebra 2, as many of the concepts require their usage. Geometry should better prepare the student for the more advanced level courses of high school. Geometry is also an important subject for many college level courses, and is important to passing college math entry tests. Trigonometry will include working with all of the functions and graphing, as well as algebraic solutions to solve problems. This course will prepare the student for higher level courses, as well as prepare them for college entrance exams.

## **PRE-COLLEGE ALGEBRA**

**Grade 11-12 Full Year**

***Credit: 1.0 PHS Credit (NO COLLEGE CREDIT FOR THIS COURSE)***

***Credit for Graduation: Math***

### **PREREQUISITE: ALGEBRA 1, ALGEBRA 2 AND GEOMETRY**

The objective of this course is to provide the student with a foundation for understanding college level algebra. In this course, students will deepen their understanding of linear and quadratic equations, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, and other topics which may include conic sections, matrices, systems of equations, counting, probability, and series, with a focus on the applications of these topics to real-life examples.

## **COLLEGE ALGEBRA**

**Grade 11-12 Full Year**

***Credit: 1.0 PHS Credit (NO COLLEGE CREDIT FOR THIS COURSE)***

***Credit for Graduation: Math***

### **PREREQUISITE: PRE-COLLEGE ALGEBRA OR ALGEBRA 1, ALGEBRA 2, GEO-TRIG**

Students develop a basic understanding of linear and quadratic equations, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, and other topics which may include conic sections, matrices, systems of equations, counting, probability, and series.

## **PRECALCULUS ALGEBRA/TRIGONOMETRY**

**Grade 11-12 Full Year**

***Credit: 1.0 PHS Credit (NO COLLEGE CREDIT FOR THIS COURSE)***

***Credit for Graduation: Math***

### **PREREQUISITE: ALGEBRA 2 AND GEO-TRIG**

This course is designed to help students continue their studies in Algebra, Geometry, and Trigonometry. This course also introduces the learner to logarithms, trigonometric identities, matrices, functions, higher level work problems, probability, and vectors. Students who complete this course will be ready to take college entrance tests and enroll in calculus and/or most college level math classes.

# PHYSICAL EDUCATION & HEALTH

Course Title	Prerequisite	Program Area	Credit	Grade
Health Education	--	Core	.5	9-12
Physical Education 1	--	Core	1.0	9
Weight Training	PE 1	Elective	.5	10-12
Physical Education 2	PE 1	Elective	.5	10-12
Zero-Hour Conditioning	See Description	Elective	.5	9-12
NWC Wellness (HLED 1270)	--	Elective	.5	11-12
NWC Diet & Exercise (HLED 1271)	--	Elective	.25	11-12

## **HEALTH EDUCATION**

### **Grade 9-12 Semester Course**

***Credit: .5***

#### ***Credit for Graduation: Health***

The course is a comprehensive health education program. Units will include community health, environmental health, mental and emotional health, nutrition, prevention and control of disease, consumer health, family life and sexuality, injury prevention and safety, personal health, and substance use, misuse, abuse, and addiction.

## **PHYSICAL EDUCATION 1**

### **Grade 9 Full Year**

***Credit: 1.0***

#### ***Credit for Graduation: Physical Education***

Physical Education will provide further refinement of skills and knowledge to build upon students' K-8 PE experiences. The goal of this class is to provide knowledge, resources and activities designed to promote personal initiative in developing healthy lifestyle tendencies. Students will engage in fitness and lifetime activities as well as individual, dual, and team games/sports to increase their knowledge and overall fitness level. This required course covers the physical education standards.

## **WEIGHT TRAINING**

### **Grade 10-12 Semester Course**

***Credit: .5***

#### ***Credit for Graduation: Elective***

#### **PREREQUISITE: PHYSICAL EDUCATION 1**

Weight Training is a course which will introduce students to the basic concepts of weight training as a means to build and shape muscle, and improve your health and vitality. This course will provide a suggested routine, and the student will be expected to work out for 4 days a week to test out the principles to complete this course. The student will learn the basics of weight training so they can continue an active lifestyle and excel those who want to go further with bodybuilding or weight training and sports.

## **PHYSICAL EDUCATION 2**

### **Grade 10-12 Semester Course**

***Credit: .5***

#### ***Credit for Graduation: Elective***

#### **PREREQUISITE: PHYSICAL EDUCATION 1**

The goal of this class is to enhance prior knowledge, resources and activities designed to promote personal initiative in developing healthy lifestyle tendencies through combining fitness and cardio into games and sports. Students will learn the basic skills to develop and maintain an active lifestyle during and throughout their lives. Students will participate in team and individual sports while increasing their fitness knowledge and level.

**ZERO-HOUR CONDITIONING**

**Grade 9 (2<sup>nd</sup> semester)-12 (1<sup>st</sup> semester) Semester Course**

***Credit: .5***

***Credit for Graduation: Elective***

**PREREQUISITE: RECOMMENDATION FROM COACH OR SPONSOR**

The Zero-Hour Conditioning class meets from 6:45-7:40 A.M. Monday-Friday. This class combines weight lifting with speed and agility exercises to provide a program that is specifically designed to enhance athletic performance. Topics such as teamwork, sportsmanship, nutrition, and sports psychology are incorporated into daily lessons to help develop competent, well-rounded student athletes. 9<sup>th</sup> grade students are eligible to enter the class beginning second semester but will need to continue their enrollment in Physical Education. 12<sup>th</sup> grade students may continue in the class during second semester so long as they have a recommendation from the Zero-Hour Conditioning teacher to do so.

**NWC WELLNESS (HLED 1270)**

**Grade 11-12 Semester**

***Credit: .5 PHS credit & 3 Northwest College credits***

***Credit for Graduation: Elective***

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Explores the relationship between diet, exercise, and health in a lecture/lab format. A trans-disciplinary approach emphasizing the integration of concepts and processes relevant to the pursuit of optimal well-being. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**NWC DIET & EXERCISE (HLED 1271)**

**Grade 11-12 Semester**

***Credit: .25 PHS credit & 2 Northwest College credits***

***Credit for Graduation: Elective***

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Introduces an understanding of basic nutrition and exercise facts relating to weight loss and fitness. Encourages development and use of a total physical fitness program. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**PE ADAPTIVE**

**Grade 9-12 Full Year**

***Credit 1.0***

***Credit for Graduation: Physical Education***

**PREREQUISITE: AVAILABLE TO STUDENTS WITH INDIVIDUALIZED EDUCATION PLANS AS PER FEDERAL LAW**

Individualized physical education based on individual needs due to health and/or orthopedic concerns.

# SCIENCE

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway Eligible?
Physical Science	--	Core	1.0	9	Yes
Honors Physical Science	Passed Algebra 1 with an A or B	Core	1.0	9	Yes
Biology	Physical Sci	Core	1.0	10	Yes
Honors Biology	See course description	Core	1.0	10	Yes
Computer Science 1	Co-Requisite Algebra 1	Core or CTE	.5	9-12	Yes – Science/CTE
Computer Science 2	Comp Sci 1	Core or CTE	.5	9-12	Yes – Science/CTE
AP Computer Science	Comp Sci 2 & Teacher Approval	Core or CTE	1.0	11-12	Yes Science/CTE
Chemistry	Alg. 1 & Phys. Sci.	Core or Elective	1.0	11-12	Yes
Honors Chemistry	See course description	Core or Elective	1.0	11-12	Yes
Environmental Science	Biology	Core or Elective	1.0	11-12	Yes
Physics	Alg. 2 & Phys. Sci.	Core or Elective	1.0	11-12	Yes
NWC Physical Geology (GEOL 1100)	ACT Math 21	Core or Elective	.5	11-12	Yes
Human Anatomy & Physiology	See course description	Core or Elective	1.0	11-12	Yes
Natural Resources	Environmental Science	Core or Elective	1.0	12	Yes

## **PHYSICAL SCIENCE**

### **Grade 9 Full Year**

***Credit: 1.0***

#### ***Credit for Graduation: Required Science***

Physical Science is an introductory course in Chemistry and Physics designed for freshmen at PHS. One semester will cover Physics topics and the other will concentrate on Chemistry topics. This course is one of the two standards indicator courses at PHS and contains some of the standard assessments necessary for graduation. Physical Science, along with appropriate Math courses, will prepare a student to be successful in high school Chemistry and Physics.

## **HONORS PHYSICAL SCIENCE**

### **Grade 9 Full Year**

***Credit: 1.0***

#### ***Credit for Graduation: Required Science***

#### **PREREQUISITE: PASSED ALGEBRA 1 WITH AN A OR B**

Honors Physical Science is an introductory course in Chemistry and Physics designed for students who have previously passed Algebra 1 with an A or B. This course is designed to cover the same material as Physical Science, but adds enrichment activities to enable the student to deeper explore many of the important concepts needed to be better prepared taking future Chemistry and Physics courses. One semester will cover Chemistry topics and the other semester covers Physics topics. This course is one of the two standards indicator courses at PHS and contains some of the standard assessments necessary for graduation. Honors Physical Science, along with appropriate Math courses, will prepare a student to be successful in our Honors Science courses as well as our traditional high school Chemistry and Physics.



**BIOLOGY****Grade 10 Full Year*****Credit: 1.0******Credit for Graduation: Required Science*****PREREQUISITE: PHYSICAL SCIENCE**

Biology is the study of all living things. This course utilizes selected readings, lecture/discussion and laboratory activities to learn about life from the molecular and microscopic level to the macroscopic level of multicellular organisms and global ecology.

Major areas of study include: molecular and cellular biology, reproduction and inheritance, evolutionary process, scientific method and classification, unicellular life, multicellular plants and animals and interactions of organisms within ecosystems.

**HONORS BIOLOGY****Grade 10 Full Year*****Credit: 1.0******Credit for Graduation: Required Science*****PREREQUISITE: A OR B IN PHYSICAL SCIENCE, ALGEBRA 2, AND/OR TEACHER****RECOMMENDATION**

Honors Biology is the intense study of all living things at a level specifically tailored to prepare students for the rigors of AP Biology, Honors Chemistry, and Human Anatomy and Physiology. This course utilizes selected readings, lecture/discussion, interactive computer tutorials and laboratory activities to learn about life from the molecular and microscopic level to the macroscopic level of multicellular organisms and global ecology. Major areas of study include: molecular and cellular biology, intracellular communication and regulation, energy flow and metabolism, reproduction and inheritance, genetic engineering and gene therapy, evolutionary process and relationship to genetic recombination and biodiversity, scientific method and classification, unicellular life, multicellular plants and animals and interactions of organisms within populations, communities and ecosystems.

**COMPUTER SCIENCE 1****Grade 9-12 Semester Course*****Credit: .5******Credit for Graduation: Career Technical Education or Science*****CO-REQUISITE: ALGEBRA 1****\*Computer Science must be taken in 9<sup>th</sup> thru 12<sup>th</sup> grade to count as a science credit.**

Computer Science 1 is designed for students who have a basic knowledge of computers and an interest in learning how to write programs. No programming experience is needed because the course makes use of beginning level programming environments and languages that will help students to learn more advanced languages. Fundamental concepts about how computers work will be introduced. Students will work to develop the fundamental skills necessary for computer-based problem solving by designing and writing their own programs. Basic game development and strategy will be the focus of this course.

**COMPUTER SCIENCE 2****Grade 9-12 Semester Course*****Credit: .5******Credit for Graduation: Career Technical Education or Science*****PREREQUISITE: COMPUTER SCIENCE 1**

Computer Science 2 expands on the concepts learned in Computer Science 1 and allows students to develop more advanced games. Game development theory will be taught alongside advanced programming skills. Students will review the concepts of programming logic, object-orientation, decision-making, looping, and events as they develop games for the Xbox platform.

**AP COMPUTER SCIENCE****Grade 10-12 Full Year*****Credit: 1.0******Credit for Graduation: Career Technical Education or Science*****PREREQUISITE: COMPUTER SCIENCE 2 AND TEACHER RECOMMENDATION****\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

The AP Computer Science curriculum uses the programming language JAVA. This is an AP course so there will be a huge amount of time needed outside of class to get projects/programs completed. Students who enroll in this course will be required to sign a contract. Students will also be required to take the AP exam, which will be paid for by PHS

**CHEMISTRY****Grade 11-12 Full Year*****Credit: 1.0******Credit for Graduation: Science or Elective*****PREREQUISITE: AT LEAST A "B" IN ALGEBRA 1 AND PHYSICAL SCIENCE**

Chemistry is the study of the matter that makes up the world around us. This course includes many topics such as the study of physical and chemical properties of matter, elements, compounds, mixtures, atomic theory, chemical bonding, names and formulas of compounds, writing equations to represent chemical reactions, stoichiometry, and gas laws. This course includes many opportunities for hands-on laboratory activities. This class meets third year standards.

**HONORS CHEMISTRY****Grade 11-12 Full Year*****Credit: 1.0******Credit for Graduation: Science or Elective*****PREREQUISITE: ALGEBRA 2, HONORS PHYSICAL SCIENCE OR B IN PHYSICAL SCIENCE WITH TEACHER RECOMMENDATION**

This is an accelerated, first year chemistry course that will better suit the student planning to pursue scientific paths in their future and ready them for success in upper level sciences such as AP Chemistry. There is a greater focus on the mathematics associated with the principles and concepts of chemistry. This course covers to a greater depth the topics from the Chemistry course, such as physical and chemical properties of matter, elements, compounds, and mixtures, atomic theory, chemical bonding, names and formulas of compounds, as well as topics of solutions, energy enthalpy, equilibrium, colligative properties, ionization and electrolytes, acids, bases and salts, pH, titration, and molarity. Many hands-on laboratory opportunities will be utilized throughout the year to introduce and increase understanding of the topics. This class meets third year standards.

**ENVIRONMENTAL SCIENCE****Grade 11-12 Full Year*****Credit: 1.0******Credit for Graduation: Science or Elective*****PREREQUISITE: BIOLOGY**

Environmental science students will examine relationships between organisms and the environment by developing critical thinking and communications skills to solve problems, prepare papers and projects, participate in laboratory activities, discuss and defend solutions/outcomes, interpret information from reading and recalling information from resources. This course is intended to incorporate previous learning as well as lab and place based activities to enhance learning opportunities. Major topics covered include: Using the scientific method, Ecosystems and Biomes, Biology of Wildlife, Embryology, Forestry, Aquatic Ecosystems, and Habitat Modeling. This class meets third year Hathaway requirements.

**PHYSICS****Grade 11-12 Full Year*****Credit: 1.0******Credit for Graduation: Science or Elective*****PREREQUISITE: ALGEBRA 2 AND GEOMETRY, PHYSICAL SCIENCE, AND TRIGONOMETRY****HIGHLY RECOMMENDED**

The study of Physics involves discovering how things around us work and interact. This course is designed to encourage the student to ask the question “how” and learn ways to analyze and answer their own questions. This includes the study of measurement and mechanical motion which includes: displacement, velocity, acceleration, force, Newton's laws, motion in curved paths, simple harmonic motion, friction, conservation of mechanical energy, momentum, and rotational motion. The course will also include the principles of thermal energy, heat exchange, laws of thermodynamics, wave energy, sound, and optics. Many laboratory activities and hands-on projects will be incorporated into the study and understanding of these concepts. This class meets third year standards.

**NWC PHYSICAL GEOLOGY (GEOL 1100)****Grade 11-12 Semester Course*****Credit: .5 PHS credit & 4 Northwest College credits******Credit for Graduation: Science or Elective*****PREREQUISITE: ACT MATH SCORE OF 21 OR ACCUPLACER TEST PLACEMENT MATH LEVEL 2****(MATH 1400 College Algebra)**

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Modern concepts of the earth's physical makeup including materials (minerals and rocks), topography, and crustal structure, as well as processes and forces acting on the earth including continents' motions, earthquakes, volcanoes, mountain building, and erosion. Required field trips emphasize local geology. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**HUMAN ANATOMY AND PHYSIOLOGY****Grade 11-12 Full Year*****Credit: 1.0******Credit for Graduation: Science or Elective*****PREREQUISITE: A OR B IN THE FOLLOWING COURSES: HEALTH, PHYSICAL SCIENCE, BIOLOGY, ALGEBRA 1, AND/OR INSTRUCTOR RECOMMENDATION**

Human Anatomy and Physiology will introduce students to various concepts dealing with the structure and function of the human body. Topics covered in this course explore the systems comprising the human body by emphasizing physiological mechanisms and a thorough understanding of human anatomy. An emphasis is placed on the interrelatedness of such systems as the skeletal, muscular, nervous, and circulatory. This course is recommended for those pursuing a career in the health science field. This course has a substantial laboratory component, including a dissection of a brain and heart.

**NATURAL RESOURCES****Grade 12 Full Year*****Credit: 1.0******Credit for Graduation: Science or Elective*****PREREQUISITE: ENVIRONMENTAL SCIENCE**

Natural Resource Management course in an introduction to conservation of soil, forests, and wildlife resources as well as renewable resources such as water, wind, and solar energy and nonrenewable resources such as oil, coal and natural gas. The course is project-based that will cover the principles of the scientific method/inquiry, Ecology, water resources, soil resources, conservation, natural resources, human impact and energy concepts. Students will learn how to apply scientific skills, collect and graph data, and use critical thinking skills to solve problems, as well as using some new forms of scientific technology.

# SOCIAL STUDIES

Course Title	Prerequisite	Program Area	Credit	Grade	Hathaway Eligible?
World History	--	Core	1.0	10	Yes
US History	World History	Core	1.0	11	Yes
Free Enterprise	World & US Hist.	Core	.5	12	Yes
American Government	World & US Hist.	Core	.5	12	Yes
NWC United States From 1865 (HIST 1221)	ENGL 1010	Elective	.5	11-12	Yes
NWC US History to 1865 (HIST 1211)	ENGL 1010	Elective	.5	11-12	Yes
Sociology 1	World History	Elective	.5	11-12	Yes
Sociology 2	Sociology 1	Elective	.5	11-12	Yes

## **WORLD HISTORY**

### **Grade 10 Full Year**

***Credit: 1.0***

***Credit for Graduation: Required Social Studies***

World History will take each student on a journey through time. This class starts with the study of pre-history and the beginnings of civilization and continues on to explore the development of major world religions, ancient empires, the Middle Ages of Europe, the Age of Exploration and will end with a look at the French Revolution.

## **U.S. HISTORY**

### **Grade 11 Full Year**

***Credit: 1.0***

***Credit for Graduation: Required Social Studies***

### **PREREQUISITE: WORLD HISTORY**

This course covers the westward movement and the civil war. Then the American history course extends from the period of reconstruction to the present. Main features of this period are: two world wars, the great depression, periods of prosperity and presidential elections, politics, and civil rights efforts.

## **FREE ENTERPRISE**

### **Grade 12 Semester Course**

***Credit: .5***

***Credit for Graduation: Required Social Studies***

### **PREREQUISITE: WORLD HISTORY & U.S. HISTORY**

Free Enterprise is a one-semester class that is designed to help the students understand the basic principles of the American Economic System.

## **AMERICAN GOVERNMENT**

### **Grade 12 Semester Course**

***Credit: .5***

***Credit for Graduation: Required Social Studies***

### **PREREQUISITE: WORLD HISTORY & U.S. HISTORY**

The American government class is a one-semester class that is designed to help the students understand and analyze the principles of our system of government and to encourage their participation in the democratic process.

**NWC US HISTORY TO 1865 (HIST 1211)****Grade 11-12 Semester Course*****Credit: .5 PHS credit & 3 Northwest College credits******Credit for Graduation: Elective*****PREREQUISITE: MUST BE ELIGIBLE TO TAKE ENGL 1010 AND/OR INSTRUCTOR****RECOMMENDATION****\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

A foundation course for programs in American history. Surveys the history and culture of the United States from Native occupation to approximately the time of the Civil War. Emphasizes the historical, cultural and constitutional roots of American values and beliefs. Along with HIST 1250, this course meets statutory requirements for instruction in principles and provisions of the constitutions of the U.S. and Wyoming. ***This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.***

**NWC UNITED STATES FROM 1865 (HIST 1221)****Grade 11-12 Semester Course*****Credit: .5 PHS credit & 3 Northwest College credits******Credit for Graduation: Elective*****PREREQUISITE: MUST BE ELIGIBLE TO TAKE ENGL 1010 AND/OR INSTRUCTOR****RECOMMENDATION****\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Surveys American history from approximately the time of the Civil War to the present. Emphasis on the development of constitutional, socio-political, cultural, and economic factors that explain the emergence of the United States as a global power. Students will also speculate utilizing causative comparisons to search for plausible future trends. Meets statutory requirements for instruction in principles and provisions of the constitutions of the United States and Wyoming. ***This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.***

**SOCIOLOGY 1****Grade 11-12 Semester Course*****Credit: .5******Credit for Graduation: Elective*****PREREQUISITE: WORLD HISTORY**

Sociology 1 is the study of people, their development as individuals and the interaction which occurs between people and groups of people. Special areas of interest to the students have been the emphasis placed on personality development from infancy to adulthood.

**SOCIOLOGY 2****Grade 11-12 Semester Course*****Credit: .5******Credit for Graduation: Elective*****PREREQUISITE: SOCIOLOGY 1**

Sociology 2 has a six-week unit on the American family, its past, present, and future. After its completion, students may choose from 15 other units for the remainder of the semester. The most popular of these has been assertiveness training, mental health, crime, living, aging and dying, and drugs, alcohol, and related materials.

## OTHER

Course Title	Prerequisite	Program Area	Credit	Grade
Work Experience: Internship	See course description	Elective or Career/Technical	varies	12
Office Aide	Special Permission	Elective	.25	11-12

### **WORK EXPERIENCE: INTERNSHIP**

#### **Grade 12 Semester Course**

*Credit: Varies*

*Credit for Graduation: Elective or Career Technical Education*

**PREREQUISITE: STUDENTS MUST HAVE EXCELLENT ATTENDANCE AND DISPLAY THESE CHARACTER QUALITIES; RESPONSIBILITY, TRUSWORTHINESS, RESPECT AND ACCOUNTABILITY TO LEAVE CAMPUS AND RETURN WITHOUT SUPERVISION. STUDENTS MUST HAVE A VALID DRIVERS LICENSE AND AUTO INSURANCE. AN APPLICATION MUST BE SUBMITTED 1 WEEK BEFORE THE END OF THE PRIOR SEMESTER.**

This semester class allows students the opportunity to experience their chosen career pathway through on-site work placement and enrichment activities assigned by the work experience coordinator. Students will not be allowed into the program unless they register and submit an application the previous semester with approval from their counselor and/or the Work Experience Coordinator. \*Note: Employers typically want students for two class periods in succession, so plan appropriately. You will be contacted by the Work Experience Coordinator and placements will be assigned at that time.

### **OFFICE AIDE**

#### **Grade 11-12 Semester Course**

*Credit: .25*

*Credit for Graduation: Elective*

**PREREQUISITE: SPECIAL PERMISSION FROM PRINCIPAL OR VICE PRINCIPAL**

The office aide will answer the phone and refer all calls to the proper person, run errands, help keep the office tidy, do filing and meet students and others at the counter in a pleasant and polite manner.

### **OPEN CAMPUS**

#### **Grade 12 Second Semester**

*Credit: 0*

*Credit for Graduation: None*

**PREREQUISITE: MUST PASS ALL CLASSES FIRST SEMESTER.**

You must have 6 credit bearing classes to be eligible. Please see Guidelines on page 54.

### **FUNDAMENTAL DAILY LIVING**

#### **Grade 9-12 Semester Course**

*Credit: .5*

*Credit for Graduation: Elective*

**PREREQUISITE: AVAILABLE TO STUDENTS WITH INDIVIDUALIZED EDUCATION PLANS AS PER FEDERAL LAW**

The course will address the socialization and daily living skills that the students will need to participate in everyday life situations that they will encounter in their lives. It will cover basic living skills, emotional and behavioral problems and appropriate responses to individual situations.

### **FUNDAMENTAL STUDY SKILLS**

#### **Grade 9-12 Semester Course**

*Credit: .5*

*Credit for Graduation: Elective*

**PREREQUISITE: AVAILABLE TO STUDENTS WITH INDIVIDUALIZED EDUCATION PLANS AS PER FEDERAL LAW**

This course is designed and geared to enhance the student's current abilities by focusing on organization skills, planning for major projects, assisting homework, applying accommodations and providing support in all course work. Part of the class period will work on skills in Reading, Math and Writing and the remainder of class time will be available for completing homework

**ACADEMIC SUCCESS**

**Grade 9-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Elective***

**PREREQUISITE: AVAILABLE TO STUDENTS WITH INDIVIDUALIZED EDUCATION PLANS AS PER FEDERAL LAW**

This course is available to students who need additional help in their major core classes. Teachers are available to reteach current skills or refresh students on previous learned concepts. It is geared to provide additional support.

**TRANSITION TO WORK**

**Grade 10-12 Semester Course**

***Credit: .5***

***Credit for Graduation: Elective or CTE***

**PREREQUISITE: AVAILABLE TO STUDENTS WITH INDIVIDUALIZED EDUCATION PLANS AS PER FEDERAL LAW**

The PHS Special Education program is a work-based/micro-certification alliance for students with special needs and/or student who are at risk. The program will coordinate a specially designed learning experience to include workplace skills. It will meet the needs of the students within a flexible environment. The class allows students to earn credit through career exploration and community connections. The program introduces students to a number of career opportunities through certifications, internships and skill-building classroom experiences.

# **Powell High School**

## **OPEN CAMPUS Guidelines**

- Only available to Seniors in good academic standing and on track to graduate.
- Senior students must have passed all classes Fall semester to be eligible for Open Campus.
- Seniors must have a signed permission form from parent in order to participate.
- Seniors may choose up to 1 period of open campus not to include Panther Time.
- Seniors must enroll in at least 6 classes during the regular school day (periods 1-7). Each class must be worth .5 credit.
- Work Experience is a double block worth 1.0 credit and will count as 2 classes for open campus eligibility, AND count as 2 classes for weekly activity eligibility. This means if you are receiving a failing grade, you will not be eligible to participate in activities.
- During open campus periods, it is expected that Seniors will leave the building, or work quietly in the library or commons.
- Since Office Aide is only worth .25 credit, this will not count as one of the 6 required classes. If a student wants to be an Office Aide, this must be in addition to 6 other classes.
- If a NWC class worth .5 high school credit takes up more than 1 period, it still only counts as 1 class towards the required 6 classes a student must be enrolled in, unless taking a class at NWC with a required lab.
- A NWC class worth .25 high school credit does not count as 1 class towards the required 6 classes a student must be enrolled in.
- Zero Hour classes (ex. Weights, Jazz Band) and night classes do not count as one of the 6 required classes.

### **Eligibility Requirements for Students Enrolled in Fewer Than Seven Classes**

To be eligible to participate in extracurricular activities and athletics, Powell High School students must have passed a minimum of five classes the preceding semester and must currently be passing five classes at the time of the competition/event. This rule is based on the Wyoming High School Activities Association (WHSAA) rules below:

#### **6.2.0 ACADEMIC REQUIREMENTS**

6.2.1 In order to be eligible for any level of interscholastic competition, a student must be currently enrolled and must have been enrolled in school the immediate preceding semester and received passing grades during that semester in subjects that earn a minimum of 5.0 credits or the equivalent, per year toward graduation.

6.2.2 A pupil must be enrolled in not less than 20 class hours of work per week.

6.2.3 A pupil must be passing in five solid subjects at the time of the contest. A passing grade is considered to be the passing grade of the individual school. As defined, a solid subject meets five days a week or its equivalent for the entire semester and for which one-half Carnegie units are granted.

Students currently involved in an activity or sport and those who anticipate participation are required to enroll in a minimum of five classes. In addition to these academic requirements, students must abide by the following attendance requirements as outlined in the Powell High School Student Handbook:

In order to practice on any given day, the student must be in school for at least one-half of the school day. In order to participate in any performance (i.e., game, concert, etc.) or travel to an event on any given day, the student must be in school the entire day. Exceptions to this rule would be scheduled medical appointments, death or serious illness in their family, or special circumstances beyond the control of the student. All such cases must be approved through the Activities Office or Powell High School Administration.

For students enrolled in fewer than seven classes, this rule will be interpreted to mean that students must attend at least one half (1/2) of their classes on any given day to be eligible to practice and must attend all of their classes to be eligible to participate in a performance or travel.



## COLLEGE CLASSES

### **NWC ENGL 1010 ENGLISH COMPOSITION I**

Grade 12 Semester Course

*Credit: .5 PHS credit & 3 Northwest College credits*

*Credit for Graduation: English or Elective*

**PREREQUISITE: ACT ENGLISH SCORE 18 OR ACCUPLACER TEST PLACEMENT**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Students learn essential elements of academic writing at the college level as they write informative, analytical, and argumentative essays. Students also practice skills required for writing based on research. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

### **NWC ENGLISH II: LITERATURE MEDIA CULTURE (ENGL 2020)**

Grade 12 Semester Course

*Credit: .5 PHS credit & 3 Northwest College credits*

*Credit for Graduation: English or Elective*

**PREREQUISITE: COMPLETION OF ENGL 1010 WITH A “C” OR BETTER**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Designed as a reading and writing course devoted to the study of the content and technique involved in poems, short stories, plays, and occasionally novels. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

### **NWC PHYSICAL GEOLOGY (GEOL 1100)**

Grade 11-12 Semester Course

*Credit: .5 PHS credit & 4 Northwest College credits*

*Credit for Graduation: Science or Elective*

**PREREQUISITE: ACT MATH SCORE OF 21 OR ACCUPLACER TEST PLACEMENT MATH LEVEL 2 (MATH 1400 College Algebra)**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Modern concepts of the earth’s physical makeup including materials (minerals and rocks), topography, and crustal structure, as well as processes and forces acting on the earth including continents’ motions, earthquakes, volcanoes, mountain building, and erosion. Required field trips emphasize local geology. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

### **NWC WELLNESS (HLED 1270)**

Grade 11-12 Semester

*Credit: .5 credit & 3 Northwest College credits*

*Credit for Graduation: Elective*

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Explores the relationship between diet, exercise, and health in a lecture/lab format. A trans-disciplinary approach emphasizing the integration of concepts and processes relevant to the pursuit of optimal well-being. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**NWC DIET & EXERCISE (HLED 1271)**

**Grade 11-12 Semester**

***Credit: .25 credit & 2 Northwest College credits***

***Credit for Graduation: Elective***

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Introduces an understanding of basic nutrition and exercise facts relating to weight loss and fitness. Encourages development and use of a total physical fitness program. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**NWC THE UNITED STATES FROM 1865 (HIST 1221)**

**Grade 11-12 Semester Course**

***Credit: .5 PHS credit & 3 Northwest College credits***

***Credit for Graduation: Elective***

**PREREQUISITE: MUST BE ELIGIBLE TO TAKE ENGL 1010 AND/OR INSTRUCTOR RECOMMENDATION**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Surveys American history from approximately the time of the Civil War to the present. Emphasis on the development of constitutional, socio-political, cultural, and economic factors that explain the emergence of the United States as a global power. Students will also speculate utilizing causative comparisons to search for plausible future trends. Meets statutory requirements for instruction in principles and provisions of the constitutions of the United States and Wyoming. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**NWC US HISTORY TO 1865 (HIST 1211)**

**Grade 11-12 Semester Course**

***Credit: .5 PHS credit & 3 Northwest College credits***

***Credit for Graduation: Elective***

**PREREQUISITE: MUST BE ELIGIBLE TO TAKE ENGL 1010 AND/OR INSTRUCTOR RECOMMENDATION**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

A foundation course for programs in American history. Surveys the history and culture of the United States from Native occupation to approximately the time of the Civil War. Emphasizes the historical, cultural and constitutional roots of American values and beliefs. Along with HIST 1250, this course meets statutory requirements for instruction in principles and provisions of the constitutions of the U.S. and Wyoming.

*This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**NWC INTRO TO THEATRE (THEA 1000)**

**Grade 11-12 Semester Course**

**Credit: .5 PHS credit and 3 Northwest College credit if take both semesters**

**Credit of Graduation: Fine & Performing Art**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Introduces various phases of the theatre in an effort to enhance appreciation of theatre as a performing art. Designed to give a general knowledge of theatre through the ages. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**NWC BEGINNING ACTING (THEA 1100)**

**Grade 11-12 Semester Course**

**Credit: .5 PHS credit and 3 Northwest College credits**

**Credit for Graduation: Fine & Performing Art**

**PREREQUISITE: INTRODUCTION TO THEATRE (THEA 1000)**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Students learn the basic practices of acting examining the fundamental principles of oral and physical interpretation. Also provides practical experience in a variety of theatrical activities. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**NWC ACTING II (THEA 2100)**

**Grade 11-12 Semester Course**

**Credit: .5 PHS credit and 3 Northwest College credits**

**Credit for Graduation: Fine & Performing Art**

**PREREQUISITE: BEGINNING ACTING (THEA 1100)**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Students develop the actor's voice and body for characterization and character interaction through performance of scenes. Character and scene development through research, personal exploration/exercise, and performance are the key learning elements. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**NWC PRACTICAL ACCOUNTING (ACCT 1050)**

**Grade 11-12 Semester Course**

**Credit: .5 PHS Credit & 3 Northwest College Credits**

**Credit for Graduation: Career Technical Education or Elective**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Students acquire a basic understanding of accounting principles and procedures used to record, classify, summarize, and report financial data. Students also gain a foundation to perform accounting tasks as well as assist with making business decisions. Prior knowledge of accounting is not necessary. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**NWC INTRO TO BUSINESS (BADM 1000)**

Grade 11-12 Semester Course

*Credit: .5 PHS Credit & 3 Northwest College Credits*

*Credit for Graduation: Career Technical Education or Elective*

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

A general introduction to principal business activities and the functions of management in planning, operating, organizing, and controlling an enterprise. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and NWC credit, and the grade earned will be reflected on both their PHS transcript and NWC transcript.*

**ADVANCED CULINARY ARTS 1 (SHERIDAN COLLEGE CULA 1510 SANITATION)**

Grade 11-12 Semester Course

*Credit: .5 PHS credit & 1 Sheridan College credit*

*Credit for Graduation: Career Technical Education*

**PREREQUISITE: CULINARY ARTS**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Applied Food Service Sanitation covers the latest developments, procedures, current government standards and emerging issues in Food Service Sanitation. Students will get a head start in understanding Hazardous Analysis Critical Control Point (HACCP), a cutting-edge system that is the hospitality industry's system-of-choice. Students will work in a restaurant setting and work towards ServeSafe certification. Students are responsible for the management of the after school bake shop. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and Sheridan College credit, and the grade earned will be reflected on both their PHS transcript and Sheridan College transcript.*

**ADVANCED CULINARY ARTS 2 (SHERIDAN COLLEGE CULA 1515 BASIC CULINARY SKILLS)**

Grade 11-12 Semester Course

*Credit: .5 PHS credit & 3 Sheridan College credits*

*Credit for Graduation: Career Technical Education*

**PREREQUISITE: ADVANCED CULINARY ARTS 1 (SANITATION CULA 1510)**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

This course gives the student an introductory overview of the fundamentals that are required to be a professional culinarian. Topics such as knife skills, stocks, sauces, soups as well as recipe conversion, costing and product identification are all covered in this course. These are the basic building blocks that are required for future culinary success. Students will continue to be managers for the after school bake shop. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and Sheridan College credit, and the grade earned will be reflected on both their PHS transcript and Sheridan College transcript.*

**BASIC BAKING (SHERIDAN COLLEGE CULA 1700 BASIC BAKING)**

Grade 11-12 Semester Course

*Credit: .5 PHS credit & 3 Sheridan College credit*

*Credit for Graduation: Career Technical Education*

**PREREQUISITE: Culinary Arts, Advanced Culinary Arts 1, and Advanced Culinary Arts 2**

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

This course takes a systems approach to the introduction, planning and preparation of baked goods. Beginning baking principles are introduced in the planning, purchasing, preparation, presentation, and proper storage of basic baked goods. Students learn how to tailor the guidelines of learned baking techniques to fit the specific needs of any operation. *This is a Concurrent Enrollment college level course taught at PHS. Students will earn both PHS credit and Sheridan College credit, and the grade earned will be reflected on both their PHS transcript and Sheridan College transcript.*

# COLLEGE COURSES CONTRACT

**Dual Enrollment** – High School student taking college-level classes on the NWC campus. PHS is responsible for tuition, fees and book expenses. Students will only be allowed to take a maximum of two (2) dual enrollment courses each semester.

**Concurrent Enrollment** – High school student taking college level classes offered at PHS during the school day. PHS is responsible for tuition, fees and book expenses.

**\*Beginning in the 2018-19 school year, all AP, IB, and Dual/Concurrent Enrollment courses at the 1000 level and above that students are taking or have previously taken, will be weighted on a scale from 0 to 5.0 for Hathaway Scholarship in accordance with Senate Enrolled Act 0056.**

Students can jumpstart their college education by participating in these programs offered through their high school and Wyoming Colleges. This is a special program that allows qualified high school students to earn both high school and college credit for college classes taken during their Junior and/or Senior years.

For Dual Enrollment, a junior or senior in high school who has the approval of his/her high school principal or counselor, can elect to take certain college classes and also receive high school credit. Junior and senior students can choose from several college classes during the school day for which he/she has the appropriate prerequisites and for which they have been recommended by their high school counselor. Per district policy, juniors must have a 3.25 cumulative GPA and seniors a 3.0 GPA to take dual/concurrent classes. Students who are within .5 credit of meeting the GPA requirements may be eligible to take a freshman seminar course to be eligible to take future classes. The following is how the college credits will be converted to high school credit for dual enrollment:

<b>College Class</b>	<b>High School Credit</b>
5 credits	1 credit
3-4 credits	.5 credit
1-2 credits	.25 credit

When high school students complete a concurrent or dual enrollment class, the course appears on their high school transcript *and* their College transcript. Talk to your high school counselor for more information or to register for college classes.

**Timeline for Enrollment**: All students wishing to take a dual enrollment class must have all steps met. These include; meet with your counselor, submit signed paperwork, and meet placement test criteria, if applicable, prior to the conclusion of previous semester.

## **Parent/Student Agreement For Dual Enrollment and Concurrent Enrollment**

Powell High School allows junior and senior students to take college classes on an enrichment basis. The college course is to be an extension of learning offered at the high school and the course must not be available at Powell High School. Certain criteria must be followed according to the established policy of Park County School District #1.

Students who fail a college course **will not** be allowed to take another dual enrollment class. This failing grade will be recorded on both your college and PHS transcript. Courses may be dropped during the first week of each PHS semester and must be added by the advertised deadline. If a student chooses to withdraw from a college course after this point, they will receive a grade of “WF” on their PHS transcript, which calculates as an “F” for GPA purposes. They may also receive a “W” on their college transcript depending on the colleges’ policies.

For Dual Enrollment, Park County School District #1 will be responsible for payment of tuition and fees (up to \$100), which include (lab fees, internet fees, academic computer fees, instructional fees, and student fixed fees). If there are other fees billed to PHS by the college, those fees will be added to the student’s account. PCSD#1 will also pay for the books that are required for the class or classes your student is enrolled in. PHS has an arrangement with the NWC Bookstore for students to obtain their required textbooks. Upon completion of the course(s), the student is responsible for returning the books to the Powell High School Counseling Office. If you choose to keep the book(s), you will be required to reimburse the school before a transcript will be released.

Students who are taking dual enrollment courses for the first time (classes at the college) must attend the mandatory meeting for students at the beginning of each semester for orientation training on college courses. This orientation training will be held prior to the beginning of the first day of classes for NWC. Students who are only taking concurrent enrollment courses (classes offered at PHS) are highly encouraged to attend the orientation training of college courses, at bare minimum students must pick up their packets and books prior to NWC starting. If the student is unable to be at the meeting, they will need to make arrangements before the time of the orientation with his/her counselor. If 1<sup>st</sup> time dual enrollment students are unable to be at the meeting, all dual enrollment courses will be removed from their schedule and they will need to select PHS courses to fill those time slots.

